Stimulation of Gαq Promotes Stress Granule Formation

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ABSTRACT

During adverse conditions, mammalian cells regulate protein production by carefully sequestering the translation machinery in membraneless organelles referred to as stress granules. Here, we show that activation of Gαq promotes the formation of particles that contain stress granule proteins through a mechanism linked to the presence of phospholipase Cβ1 (PLCβ1). In cells, PLCβ1, the most prominent isoform of PLCβ in neuronal cells, localizes to both the cytoplasm and plasma membrane. We show that a major population of cytosolic PLCβ1 binds to stress granule proteins, such as PABPC1, eIF5A and Ago2. PLCβ1 is activated by Gαq in response to hormones and neurotransmitters and we find that activation of Gαq shifts the cytosolic population of PLCβ1 to the plasma membrane, reducing its association to stress granule proteins. The loss of cytosolic PLCβ1 is accompanied by an increase in the size and number of particles containing PABPC1, G3BP1 or Ago2, and a shift of cytosolic RNAs to larger sizes consistent with cessation of translation. Particles containing stress granule proteins are seen when the cytosolic level of PLCβ1 is lowered by siRNA or by osmotic stress but not cold, heat, oxidative or arsenite stress suggesting that their composition is distinct from those formed from other stresses. Our results fit a simple thermodynamic model in which cytosolic PLCβ1 solubilizes stress granule proteins and its movement to Gαq upon stimulation releases these particles to allow the formation of stress granules. Taken together, our studies show a link between Gαq-coupled signals and translation through stress granule formation.

INTRODUCTION

When cells are subjected to environmental stress, they halt the production of many housekeeping proteins to preserve resources for the synthesis of proteins that will help the cell alleviate the particular stress. These stalled translation complexes, called stress granules, are thought to act as triage sites that protect non-translated mRNAs from degradation until the stress is removed while allowing the synthesis of other proteins (for review see (*1, 2*)). Stress granules are distinct from processing bodies or P-bodies that store and process mRNA, although they have also been observed under non-stress conditions. Depending on the cell conditions, the mRNA held in these stalled complexes may be degraded, translated or stored until needed. Additionally,

studies in yeast subjected to hypo-osmotic stress found that P-bodies and stress granules may form hybrid structures (*3*) although this behavior has not been observed in higher eukaryotes. Physically, stress granules are phase-separated domains composed of non-translating mRNAs, translation initiation complexes, poly (A)-binding protein, and many additional mRNA-related proteins (*4*). They consist of a packed core with loosely associated peripheral proteins (*5*). Stress granules appear when cells are subjected to environmental conditions such as cold or heat shock, exposure to toxic molecules, oxidative stress, hypo- or hyper-osmolarity, UV irradiation and nutrient deprivation. The molecular mechanisms that transmit these different stresses into the cell interior remain largely unresolved.

Although stress granules appear in many types of cells, we focus here on those that form in mammalian cells. Stress granules have been implicated in the pathogenesis of various diseases such as cancer, neurodegeneration and viral infections (*1, 6*). Many stress granule proteins contain disordered domains and these regions play important roles in the liquid-like nature of stress granules. Neuronal cells, in particular, contain many proteins with disordered domains and so it is not surprising that some neurological diseases (e.g. ALS) have been attributed to abnormal stability of stress granules (see (*7*)). Thus, it is important that cells have mechanisms to prevent premature formation of stress granules, and to insure their reversible assembly and disassembly.

While stress granules primarily contain proteins associated with translation, it is notable that argonaute 2 (Ago2) can be found in these domains (see (*8*)). Ago2 is the main nuclease component of the RNA-induced silencing complex (*9*). Ago2 binds small, silencing RNAs in their double-stranded form, and holds the guide strand after the passenger strand is degraded to allow hybridization with a target mRNA. If pairing between the passenger strand and the mRNA is perfect, as is the case in exogenous siRNAs, then Ago2 will undergo conformational changes that result in mRNA degradation. Alternately, if pairing is imperfect, as is frequently the case for endogenous microRNAs, the conformational changes that allow Ago2 nuclease activity do not occur resulting in a stalled complex (see (*10*)). Thus, the formation and stability of these stalled complexes and their incorporation into stress granules will alter protein populations, which may alter the down-stream proteins interactions that may ultimately alter the properties of the cell.

The mechanisms through which environmental changes are communicated into the cell to promote stress granule formation are unclear and likely to differ with different types of stress. Here, we show that extracellular signals can impact stress granule formation via G proteins to stall translation. Signaling through G proteins is initiated when external ligands bind to their target G protein coupled receptor that activates intracellular Gα subunits. The Gαq family of G proteins is activated by agents such as acetylcholine, dopamine, bradykinin, serotonin, histamine, etc. (*11, 12*). Activated Gαq in turn activates phospholipase Cβ (PLCβ) which catalyzes the hydrolysis of the signaling lipid phosphatidylinositol 4, 5 bisphosphate resulting in an increase in intracellular calcium. There are four known family members of PLCβ that differ in their tissue distribution and their ability to be activated by G proteins (*12*), and these studies focus on PLCβ1 which is the most highly activated by Gαq and is prominent in neuronal tissue. While the major population of PLCβ1 lies on the plasma membrane where it binds Gαq and accesses its substrate, PLCβ is also found in the cytosol in every cell type examined and under different conditions (*13, 14*).

Several years ago we found that a cytoplasmic PLCβ1 population binds to C3PO, the promoter of RNA-induced silencing, and this binding can reverse RNA-induced silencing of specific genes (*14, 15*). Association between these two proteins occur in the same region that Gαq

binds to PLCβ1 and is upstream of the active site. Thus, while PLCβ1's catalytic activity is not effected by C3PO binding, its activation by Gαq is eliminated. Subsequent studies showed that the association of PLCβ and C3PO is critical for PC12 differentiation (*16, 17*), but little or no association is seen in non-differentiating cells leading to the question of whether cytosolic PLCβ1 has other binding partners. Recently, we found that PLCβ1 will bind to and inhibit a neuronal-specific enzyme required for proliferation, CDK16 (*18, 19*), and this association allows cells to cease proliferation and transition into a differentiated state (*17*). Again, this association is confined to a specific event that drives neuronal cells out of stemness, and suggests that under non-proliferating, non-differentiating conditions cytosolic PLCβ serves some other function. In this study, we show that a major population of cytosolic PLCβ is bound to stress granules proteins, and that this binding prevents premature stress granule formation. Removal of PLCβ1 from the cytoplasm by stress or by Gαq stimulation promotes particle assembly. The interaction between PLCβ1 and stress granule proteins shows a novel feedback mechanism between the external environment and the protein translation machinery.

RESULTS

PLCβ1 binds to stress granule-associated proteins. We began this work by carrying out experiments to determine novel binding partners to cytosolic PLCβ1 in PC12 cells under non-differentiating conditions. Our approach was to isolate the cytosolic fractions of unsynchronized, undifferentiated PC12 cells, and pull down proteins bound to PLCβ1 using a monoclonal antibody. We collected the PLCβ1-bound proteins and identified them by mass spectrometry. Unexpectedly, we found that ~30% of the total proteins associated with cytosolic PLCβ1 are markers for stress granules (*1, 20*) (**Fig. S1A**). The most prevalent ones are listed in **Fig.1A** in terms of the percent of their contribution to the total intensity. In contrast, control studies using cytosolic fractions of cells with reduced PLCβ1 levels only and identified non-specific proteins such as tubulin, actin and mitochondrial proteins (**Fig. S1B**).

The studies in **Fig.1A** were carried out in unsynchronized cells where ~90% in the G1 phase (*17*). However, our previous studies suggested that PLCβ1 may change binding partners as cells move through the cell cycle (*21*). Additionally, PLCβ1 has a nuclear population that may exchange with the cytosolic one (see (*22*)). Therefore, we repeated the studies in cells where the nuclear population is also available for binding by arresting cells in the G2/M phase where the nuclear matrix has broken down and these results are presented in **Fig.1B** and **Fig. S1C.** Again, we find that 32% of the proteins bound to PLCβ1 are markers for stress granules, with the most prominent being eukaryotic initiation factor 5A (eIF5A) and polyadenylate binding protein C1 (PABPC1) (**Fig.1B**). Additionally, other stress-granule and translation proteins appear in both groups such as FXR1/2, G3BP1 and other eukaryotic initiation factors. It is also notable that Ago2, which is associated with both RNA-induced silencing complexes and stress granules (*8*), appears in these cells.

The proteomics studies described above are only indicative of potential protein partners of PLCβ1 since they are identified under non-physiological conditions. Therefore, we verified the binding of PLCβ1 to stress granule proteins by several methods. First, we again carried out pull-

down studies using the same monoclonal antibody as used above and monitored the association of two stress granule proteins by western blotting. The first, PABPC1, is an established marker for stress granules (*20*). The second, Ago2 moves into granules under stress conditions (*8*). Using unsynchronized, undifferentiated PC12 cells, we verified that PABPC1 and Ago2 bind to PLCβ1 (**Fig. 2A-B**). We then determined whether the levels of these proteins changed when two of PLCβ1's established binding partners, Gαq and C3PO, are over-expressed (**Fig. 2A,** and **Fig. S7A-B**). We find that the level of Ago2 is reduced when the levels of either of these partners is raised, suggesting that Ago2 binds to similar regions of PLCβ1. However, the amount of PABPC1 pulled down with PLCβ1 does not significantly change with over-expression of either Gαq or C3PO (p=0.81 and p=0.54, respectively) but is lowered with Ago2 over-expression. The simplest interpretation of these data is that interactions between PLCβ1 and PABPC1 differ from those of Ago2, and that the reduction in PABPC1 levels with Ago2 over-expression is simply due to a redistribution of the PLCβ1 pool (see *Discussion*). No bands were detected blotting with anti-Actin.

We wanted to verify that similar results are obtained when a different PLCβ1 antibody is used. Noting that differs from other PLCβ family members mainly in the long 400 amino acid C-terminal domain where Gαq and C3PO bind, and where some stress granule proteins may bind (*see below*), we repeated the pull down studies where the antibody epitope would not occlude any potential binding partners. Specifically, we transfected undifferentiated, unsynchronized PC12 cells with eGFP-PLCβ1 where the eGFP tag is tethered to the N-terminus, and carried out the pull down studies using anti-eGFP or eGFP tagged to another stress granule marker,G3BP1. The results (**Fig. 2C-D and Fig. S8**) show association between PLCβ1 and PABPC1, Ago2 and G3BP1. No bands were seen blotting for a non-binding protein. Taken together, these studies support the idea that cytosolic PLCβ1 associates with stress granules proteins.

PLCβ1 associates to Ago2 but not G3BP1 in living cells. The above studies suggest that PLCβ1 and Ago2 interactions may be modulated by G protein stimulation and cellular events associated with C3PO. Keeping in mind that C3PO promotes RNA-induced silencing, we set-out to characterize the factors that regulate PLCβ-Ago2 association. We first isolated the cytosolic fractions of unsynchronized, undifferentiated PC12 cells, pulled-down proteins associated with Ago2 and identified them by mass spectrometry. We find that PLCβ is included in the data set. Interestingly, all of the proteins listed in **Fig. 1A** were found in both PLCβ1 and Ago2 pull-downs (see **Fig. S1D**).

We measured the association between PLCβ1 and Ago2 in living PC12 cells by Förster resonance energy transfer (FRET) as monitored by fluorescence lifetime imaging microscopy (FLIM). In this method, the FRET efficiency is determined by the reduction in the time that the donor spends in the excited state (i.e., the fluorescence lifetime) before transferring energy to an acceptor fluorophore (see (*23*)). If we excite the donor with light that has modulated intensity, the lifetime can be determined by the reduction in modulated intensity (M) as well as the shift in phase (φ) of the emitted light. If FRET occurs when the donor is in the excited state, the fluorescence lifetime will be reduced as indicated by a reduced change in modulation and phase shift. The amount of FRET can then be directly determined from the raw data by plotting the lifetimes in each pixel in the image on a phasor plot (i.e. S versus G where S = M*sin (φ) and G = M*cos (φ)

(see (*24*)). In these plots, the lifetimes in each pixel in a FLIM image will fall on the phasor arc for a single population. However, when two or more lifetimes are present, the points will be a linear combination of the fractions with the points inside the phase arc that move towards the right due to shortened lifetimes (i.e. FRET). We note that phasor representation is simply the Fourier transform of the lifetime decay curves but readily displays lifetimes directly from raw data without the need for model-dependent fitting of the lifetimes or other corrections.

In **Fig. 3** we show the phasor plot and the corresponding image of a PC12 cell expressing eGFP-PLCβ1 where the phase and modulation lifetime of each pixel in the image is presented. As expected for a single lifetime species, all points fall on the phasor arc (**Fig. 3A**). When we repeat this study in cells expressing both eGFP-PLCβ1 and mCherry-Ago2 where mCherry is a FRET acceptor, the average donor lifetime drops from 2.5 to 1.7ns, and the points move inside the phasor (**Fig. 3B**). This reduction in lifetime and movement of the points into the phasor show the occurrence of FRET between the probes. Because the amount of FRET depends on the distance between the fluorophores to the sixth power, and since the distance at which 50% transfers for the eGFP / mCherry pair is ~30Å (*25*), our results indicate direct interaction between PLCβ1 and Ago2 in the cytosol.

We can select points in the phasor plots and visualize their localization in the cell image. We find that the points corresponding to FRET, and thus eGFP-PLCβ1 / mCherry-Ago2 complexes, are localized in the cytoplasm (**Fig. 3C**). In contrast, points corresponding eGFP-PLCβ1 alone are found both on the plasma membrane and the cytoplasm.

Additionally, we tested the extent of association between eGFP-PLCβ1 and eGFP-G3BP1 using homo-FRET (i.e. FRET between identical species). No changes in lifetime and thus no FRET, could be detected. This absence of FRET means that the two fluorophores are separated by more than ~45 Angstroms. This result suggests that association between the two proteins is indirect.

eIF5A binds to PLCβ1 competitively with C3PO and Gαq. To remain cytosolic, stress granule proteins must bind to PLCβ1 in a manner competitive with Gαq or it would localize to the plasma membrane. We previously have shown that PLCβ1 binds to C3PO in the same C-terminal region as Gαq (*15*) and that competition between C3PO/Gαq regulates PLCβ1's ability to generate calcium signals through Gαq activation, or its ability to reverse siRNA, respectively (*26*). With this in mind, we searched the proteins identified in the mass spectrometry for stress granule proteins that could draw PLCβ1 away from Gαq. We noted that eIF5A, which is a GTP-activating protein (*27*), has homologous regions to the GTPase region of Gαq and appears in the mass spectrometry screen, (see *Discussion*) and so we chose it for further testing.

In an initial study, we purified PLCβ1 and covalently labeled it with a FRET donor, Alexa488. We then purified eIF5A, labeled it with a FRET acceptor, Alexa594, and measured the association between the two proteins in solution by fluorescence titrations similar to previous studies (*28*). We find that the two proteins bind with strong affinity ($K_d = 27 \pm 5$nM). However, when we formed the Alexa488-PLCβ1-C3PO complex and titrated Alexa594-eIF5A into the solution, we could not detect FRET (**Fig. 4A**). This result suggests that eIF5A binds to the same region as C3PO, and similarly, to Gαq (see (*15*)).

To determine whether eIF5A competes with C3PO for PLCβ1 in cells, we transfected PC12 cells with eGFP-PLCβ1 and mCherry-TRAX, to produce fluorescent C3PO (see (*29*)). Cellular association between these proteins is easily detected by FLIM/FRET (**Fig. 4B-C**). We then microinjected purified eIF5A to increase its intracellular amount by ~10nM and find that FRET is completely eliminated (**Fig. 4D**). This result shows that eIF5A displaces C3PO from PLCβ1 and suggests that both proteins bind to a similar region in PLCβ1's C-terminus (**Fig. 4E**).

We confirmed the idea that eIF5A binds to the C-terminal region of PLCβ1 using purified proteins in solution. In these studies, we formed the eIF5A-PLCβ1 complex, chemically cross-linked proteins, digested the samples, separated the fragments by electrophoresis and sequenced the peptides by mass spectrometry (**Fig. S2A, S3A-B)**. We find several interaction sites between the proteins but one of the most prominent is between residues 1085-1095 of PLCβ1and 97-103 of eIF5A which are expected to be close to the Gαq activation region. Taken together, these studies suggest that eIF5A competes with both Gαq and C3PO for PLCβ1 binding and directs PLCβ1 to complexes containing stress granule proteins.

Effect of osmotic stress on PLCβ1 isoforms. To determine whether PLCβ1 can impact stress granule formation, we started with mild, hypo-osmotic stress (300 to 150 mOsm where we have found has reversible effects on the Gαq/PLCβ signaling pathway in muscle cells (*30, 31*). We first determined whether hypo-osmotic stress affected the association between PLCβ1 and stress granule proteins within 5 minutes before adaptive changes in the cell occur.

PLCβ1 has two major subtypes (1a and 1b) where the 1a form is the best characterized, and most prevalent subtype, and has additional residues in its C terminus (1142-1216) (*32*). Although both forms are similarly activated by Gαq, some studies found differences in localization although these appear to be cell type specific (*33-35*). Surprisingly, we find that a 5 minute exposure of PC12 cells to osmotic stress caused a dramatic reduction in PLCβ1a while the amount of PLCβ1b is unchanged (**Fig. 5A**). Gαq stimulation did not affect the level of either isoform. Tracking the total amount PLCβ1 using an antibody that recognizes both isotypes, we found that the cytosolic population is preferentially reduced (**Fig. 5B**). Considering the half-life of total PLCβ1 in PC12 cells is 20 min (*17*), the data in **Fig. 5** suggests that osmotic stress enhances PLCβ1a degradation. After 30 min of stress, the level of PLCβ1b increases as does the level of PABPC1, but PLCβ1a remains low as the cells adapt (**Fig. 5B**). Because the majority of our studies cannot distinguish between the a and b PLCβ1 isoforms, we will refer to only PLCβ1.

We determined the ability of hypo-osmotic stress to affect calcium signals generated by Gαq in response to 1μM carbachol. Using the fluorescent calcium indicator, Calcium Green (see *Methods*), we first verified that lowering the osmolarity from 300 to 150 mOsm does not affect the intracellular calcium levels. However, osmotic stress quenches increased calcium in response to Gαq / PLCβ1 activation (**Fig. 5C**). This loss is consistent with reduced cellular PLCβ1 levels.

Cytosolic levels of PLCβ1 impact stress granule assembly. It is possible that PLCβ1 binds stress granule associated proteins to prevent premature assembly of stress particles. To test this idea, we followed stress granule formation in PC12 cells under hypo-osmotic stress by counting the number of particles microscopically in undifferentiated, unsynchronized PC12 cells using a 100x objective under normal (300 mOsm) and hypo-osmotic conditions (150 mOsm). We note

that this resolution may not capture the formation of small particles (see (*5*)) and we might be viewing the assembly of primary particles as well as the fusion of small pre-formed ones. In the data shown, we analyzed particle number and sizes in 1.0 μ slices though several cells and report particle sizes in area as seen for each slice. We also note that converting the particles into three dimensions and analyzing the particles gave identical results but with reduced resolution.

We fixed PC12 cells under normal and hypo-osmotic conditions and stained them with monoclonal antibodies to the stress granule marker, PABPC1. In control cells, PABPC1 antibody staining shows ~750 particles below 25 μm^2 (**Fig. 6A**). When PLCβ1 is down-regulated, we find a large increase in PABPC1 particles from 25 to 100 μm^2 suggesting that loss of PLCβ1 promotes the formation of larger particles. When we apply osmotic stress we find an increase in the number of particles between 25 and 50 μm^2 (**Fig. 6B**) However, osmotic stress does not change the size or number of particles in cells where PLCβ1a has been down-regulated suggesting that osmotic stress and loss of PLCβ1 are not additive effects. In another series of studies, we stimulated cells with carbachol to activate Gαq (**Fig. 6C**). We find that stimulation produces a high number of particles up to ~150 μm^2 and down-regulating PLCβ1 does not greatly impact the size or number of PABPC1 particles. Taken together, these studies suggest that loss of PLCβ1 either from down-regulation, osmotic stress or binding to activated Gαq promotes the incorporation of PABPC1 into larger aggregates.

We then tested the effect of PLCβ1 on the size and number of particles associated with Ago2 by immunofluorescence. For Ago2, the number of smaller particles substantially increased when PLCβ1 was down-regulated (**Fig. 7A**). Unlike PABPC1, the size and number of Ago2-associated particles were not affected by osmotic stress, although an increase in the number of small particles with PLCβ1 down-regulation was still seen (**Fig. 7B**). Additionally, carbachol stimulation of Gαq resulted in an increase in the number of small particles (**Fig. 7C**).

The studies above were carried out in fixed, stained cells. We also followed particle formation in live cells by transfecting PC12 cells with mCherry-Ago2 or eGFP-G3BP1. While the number and areas varied somewhat with the level of transfection, the results show the same trend as the immunostained samples (**Fig. 7D-E**); that Gαq stimulation or osmotic stress increases the number of associated particles. These studies indicate that reduction of cellular PLCβ1 increases the number of particles of proteins associated with stress granules.

While the increase in particle assemblies could simply be due to the loss of cellular PLCβ1, it may also be due to removal of PLCβ1 from pre-formed particles. To address this question, we transfected PC12 cells with eGFP-PLCβ1 and analyzed the particles (**Fig.7F**). We could not detect particles below 400 μm^2 after which the number climbed to ~1000. No differences were found in cells subjected to osmotic stress. These data suggest that PLCβ1 does not associate with large particles in the cell. In support of this idea, we used fluorescence correlation spectroscopy to monitor changes in the diffusion of eYFP-PLCβ1 when osmotic stress is applied. We find the diffusion coefficient is unchanged at 4.2 +/-0.4 $\mu m^2/s$ during the first 10 minutes of exposure to osmotic stress.

The differences in the size and number of PABPC1 versus Ago2 or G3BP1 particles suggest they partition into different types of granules. We tested this idea by monitoring the effect of PLCβ1 and osmotic stress on the colocalization between Ago2 and PABPC1 (**Fig. 8**). Under normal osmolarity, we find little colocalization between the proteins both at endogenous and

knocked-down levels of PLCβ1. However, when the cells are subjected to osmotic stress, colocalization between the species increases, and this increase is more pronounced when PLCβ1 is down-regulated. These results suggest that PABPC1 and Ago2 form distinct particles that may begin to fuse or associate under high stress conditions, such as loss of cytosolic PLCβ1 and osmotic stress.

Assembly of Ago2 and G3BP1 stress granules depends on the type of environmental stress. It is probable that osmotic stress produces granules that are different in size, number and composition than those produced by other stresses. We compared the formation of Ago2 and G3BP1 particles under different types of stress by Number & Brightness (N&B) analysis (see *Methods*). This method measures the number of fluorescent molecules associated with a diffusing particle in living cells (*36*) (see *Methods*). Thus, N&B measurements of cells expressing eGFP-Ago2 will indicate the conditions that promote the formation of aggregates.

In **Fig. 9** we present the N&B histograms for some example images of cells expressing eGFP-Ago2 (*top panels*), visualization of aggregates in the cells (*middle panels*), and the corresponding fluorescence images (*bottom panels*) where the purple areas correspond to higher intensities. To analyze these images, we selected the regions of N&B values that correspond to free eGFP (**Fig. 9A**) as outlined in red in the upper panels, and appear in red in the images in the middle panels. We then determined the number of pixels in each of the N&B images that had values outside these regions that correspond to small Ago2 aggregates (n=2-5) as shown in green, or large Ago2 aggregates shown in purple. The number of pixels corresponding to Ago2 aggregates were tabulated for 10-14 images and are given in **Fig. 9**.

We followed Ago2 aggregation in PC12 cells subjected to a variety of stress conditions (**Fig. 9**). Subjecting cells to osmotic stress resulted shift the distribution of eGFP-Ago2 particles to a point where ~60% of the eGFP-Ago2 were significantly larger than a monomer (**Fig. 9B**). It is notable that these Ago2 stress granules formed throughout the cytoplasm, and is notable that only 75-80% of cells showed aggregation. We compared the aggregation of eGFP-Ago2 in cells subjected to other stresses: cold shock (12ºC for 1 hour), heat shock (40ºC for 1 hour), arsenite treatment (0.5mM for 10 min) (**Fig. 9C,I,O and 9E,J,P**) and oxidative stress (1mM $CoCl_2$ 8hrs, **Fig. S4**). Unlike osmotic stress, these other stresses produced changes in all cells observed but eGFP-Ago2 aggregates were seen as a few large particles rather than evenly distributed through the cell. In a final series of studies, we stimulated cells under normal conditions with carbachol to activate Gαq and promote relocalization of cytosolic PLCβ1 to the plasma membrane (**Fig. 9F,L,R**). Unlike other stresses, we find the formation of small eGFP-Ago2 aggregates distributed throughout the cytosol. This behavior was seen in every cell tested. These data show that different stresses, including Gαq activation, result in patterns of formation of stress granules containing multiple Ago2 molecules.

We also viewed the aggregation of eGFP-G3BP1 expressed in undifferentiated, unsynchronized PC12 cells. Unlike eGFP-Ago2, PC12 cells expressing eGFP-G3BP1 showed aggregation in untreated conditions, n=4 (**Fig. 10A,E,I**), and this aggregation increased with hypo-osmotic stress, n=4 (**Fig. 10B,F,J**), PLCβ1 down-regulation, n=5 (**Fig. 10 C,G,K**), and carbachol treatment, n=4 (**Fig. 10 D,H,L**). Unlike the punctate pattern seen for Ago2, G3BP1 aggregation

were more diffuse and occurred close to the plasma membrane showing its presence in a wide distribution of stress granules.

Cytosolic PLCβ1 levels impact the size of cytosolic RNAs. The formation stress granules is expected to be accompanied by an increase in the size distribution of cytosolic RNA as mRNA accumulates due to the arrest of translation. We measured the sizes of cytosolic RNA by dynamic light scattering (DLS) **(Fig. 11A)**. Subjecting cells to osmotic stress caused a significant shift to larger sizes. Down-regulating PLCβ1 resulted in a small peak at low molecular weights followed by a broad peak at larger sizes that shifts to the right when compared to control. The small peak is consistent with enhanced C3PO activity due to the relief of inhibition by PLCβ1 (*28*). Over-expressing Gαq resulted in a similar behavior as treatment with siRNA(PLCβ1). For reference, we show DLS spectra of cytosolic RNA from control and the antibiotic puromycin (*inset*), which halts translation, rendering mRNA in stress granules (see (*37*)). The RNAs from puromycin-treated cells were almost two-fold higher in molecular weight and show a small peak that corresponds to the sizes seen in control cells. Surprisingly, neither cold, heat, oxidative stress or arsenite increased the average size of cytosolic RNA (**Fig. 11B**). These data are consistent with the translation arrest and accumulation of higher molecular weight RNAs when the cellular level of PLCβ1 is reduced.

Cytosolic PLCβ1 levels affect stress granules in smooth muscle cells. Myocytes and other cell types may experience changes in osmotic conditions during their lifetime. With this in mind, we extended these studies to two different smooth muscle cell types, rat aortic smooth muscle (A10) and Wystar Kyoto rat 3M22 (WKO-3M22) cells. We first focused on A10 cells where we identified PLCβ1-associated proteins from a monoclonal antibody pull-down by mass spectrometry under basal conditions and 5 minutes after hypo-osmotic stress (**Fig. S2B**). Interestingly, a large fraction of proteins pulled down with PLCβ1are associated with transcription which is most likely due to the nuclear population of PLCβ (see (*38*)). Stress granule proteins appear at lower levels. Many of the stress granule proteins were also found in PC12 cells, e.g. PABPC1 and eIF5A (**Fig. 12A**), while others, such as Ago2 and FXR, are not seen. Repeating these studies using A10 cells subjected to hypo-osmotic stress for 5 minutes before lysing, resulted in a loss in almost all of these transcription-associated proteins and most stress granule proteins (**Fig. 12B**). These results show that PLCβ1 binds to stress granule- associated proteins in A10 as well as PC12 cells, and that osmotic stress releases from PLCβ1. While the cellular amount of PLCβ1 in A10 cells is reduced with osmotic stress, the effect is much lower than in PC12 cells (**Fig. S2B**).

We measured the formation of PABPC1 particles in A10 cells when the cytosolic levels of PLCβ1 are perturbed, i.e. osmotic stress, siRNA down-regulation and Gαq stimulation (**Fig. 12C-E**). These cells showed particles that are ~10 fold larger than in PC12 cells. Like PC12 cells, down-regulating PLCβ1 results in larger particles, and osmotic stress increases the formation of large particles. Also, carbachol stimulation results in a significant increase in particles. In summary, these studies show that the size and number of PABPC1 particles depend on the cytosolic level of PLCβ1.

Both osmotic stress and carbachol also promoted Ago2-related stress granules in WKO-3M22 cells. In **Fig. 13A-L** we show N&B results of these cells subjected to osmotic and arsenite stress, and carbachol stimulation. Similar to PC12 cells, both osmotic stress and carbachol stimulation promoted Ago2 aggregation while aresenite stress had only a minor effect. Down-regulating PLCβ1 promoted Ago2 aggregation in both control and arsenite stressed cells. Interestingly, down-regulating PLCβ1 did not result in higher levels of Ago2 in cells subjected to osmotic stress or carbachol stimulation suggesting that these conditions lower the level of PLCβ in untransfected cells to give results similar to the down-regulated ones. In a final series of studies, we monitored shifts in the sizes of cytosolic RNA in WKO-3M22 cells with osmotic stress and carbachol stimulation and found significant increases in the RNA sizes under both conditions (**Fig. 13M**). It is noteworthy that the particles and cytosolic RNAs in WKO-3M22 cells appear much larger than those found in PC12 cells.

Dependence of stress granule formation on PLCβ1 levels. To understand the dependence of stress granule formation on the concentration of PLCβ, we assume that eIF5A is the primary contact between PLCβ1 and stress granule proteins, although eIF5B or another could be invovled. We can then express the partitioning of eIF5A from the cytosol (c) to the particulate phase (p) as:

$$Kp = \frac{eIF5A^p}{eIF5A^c}$$

where $eIF5A^p$ is the stress granule phase also termed '*G'*. The total amount of eIF5A is:

$E_T = eIF5A^p + eIF5A^c$, where $eIF5A^c = eIF5^{free} + eIF5A\text{-}PLC\beta$

We can express the association between PLCβ and eIF5A in terms of a bimolecular dissociation constant.

$$K_d = \frac{[PLC\beta][eIF5A]}{[PLC\beta - eIF5A]}$$

In this equation, PLCβ refers to cytosolic PLCβ. We only consider the cytosolic population and not the membrane-bound one in accord with our results showing that loss of cytosolic of PLCβ promotes stress granule formation. Thus, the total cytosolic amount of PLCβ is:

$P_T = PLC\beta^{free} + PLC\beta\text{-}eIF5A$

If we combine these equations to determine the relationship between and [PLCβ], we obtain an equation that is quadratic in *G* (i.e. $eIF5A^p$.

$$G^2\left(1 + \frac{1}{K_p}\right) + G\left(P_T - E_T + K_pK_d + K_d\right) - K_pK_dE_T = 0$$

To give:

$$G = \frac{-\left(P_T - E_T + K_d\left(1 + K_p\right)\right) \pm \sqrt{P_T^2 + E_T^2 + K_d^2\left(1 + K_p\right)^2 + 2K_d\left(1 + K_p(P_T + E_T)\right) - 2P_T E_T}}{\left(\frac{2\left(1 + K_p\right)}{K_p}\right)}$$

To determine the applicability of this model, we first need to estimate values for *G*. We find a linear dependence between the number of particles and the average area of the particles for PABPC1 (**Fig. 14A-B**) in PC12 and possibly in A10 cells. This linearity allows us to estimate *G* using either of these measurements. We note that this linearity does not occur for Ago2 particles where stress primarily increases the number of particles rather than the size (**Figs. 6-7**).

We can estimate the total amount of cytosolic PLCβ using single molecule fluorescence measurements. Briefly, we measure the number of eYFP-PLCβ1 molecules diffusing in a specific confocal volume after calibration, and we note that we typically over-express ~2 fold more protein as indicated by western blotting. Our measurements give a cytosolic eYFP-PLCβ1 concentration of ~43 nM in PC12 cells and ~49nM in A10 cells which is reduced to 10-15 nM under hypo-osmotic conditions. This decline can be compared with the ~2.5 fold reduction in cytosolic PLCβ1 upon carbachol stimulation (e.g. **Fig. 5B**) and the 80-90% reduction in PLCβ1 levels with siRNA treatment. Although these values for PLCβ1 are approximate, we can use them to determine its dependence on stress granules as expressed as G^2. The data in **Fig. 14C** show the sensitivity of stress granules in this concentration range of PLCβ1 (see *Discussion*)

DISCUSSION

The studies presented here support the intriguing idea that cells direct signals through the reversible sequestration of proteins in membraneless organelles. In some cases these structures promote protein interactions by reducing the local concentration and mobility of the proteins, whereas in other cases they effectively halt a functional pathway (*39, 40*). In this work, we show that the atypical cytosolic population of PLCβ1 helps to organize particles containing stress granules proteins in response Gαq signals. The specific types of stress granules that result from Gαq/PLCβ1 signals appear similar to those that appear under osmotic stress, and distinct from those resulting from cold or heat shock, oxidative stress or arsenite treatment. As detailed below, our studies suggest that PLCβ1 regulates the entry of Ago2 and other stress granule proteins into particulates through a simple thermodynamic binding mechanism that is competitive with Gαq, and that is absolutely dependent on the cytosolic level of PLCβ.

The traditional function of PLCβ is to generate calcium signals through molecules that activate Gαq such as acetylcholine, dopamine, serotonin, melatonin, histamine and angiotensin II. It is notable that without Gαq stimulation, the enzymatic activity of PLCβ1 is very low, and Gαq only appears on the plasma membrane suggesting that cytosolic PLCβ1 does not function to modify inositol phospholipids in internal membranes. Thus, any effect of these novel binding partners on

PLCβ1's enzymatic function would immaterial; however, their ability to regulate PLCβ1's access to Gαq may be important in calcium generation.

PLCβ1 plays multiple roles in cell function that are usually attributed to its enzymatic function. Cocco and others have shown that PLCβ1 can localize to the nucleus to regulate cell growth and differentiation possibly through modulation of PIP_2 levels in the nuclear envelope (see (*41, 42*)). Our lab has found that PLCβ1 has a stable cytosolic population that impacts various cell functions such as RNA silencing, and neuronal cell differentiation and proliferation independent of its activity (*43, 44*). These alternate cytosolic functions of PLCβ only occur at specific and limited times in the cell cycle. For this reason, we set out to determine whether cytosolic PLCβ1 binds to other proteins in non-differentiating cells under non-stimulated conditions. With these parameters in mind, we used a proteomics approach to uncover potential interacting proteins and validated some of these interactions in living cells. Our studies show that under basal conditions cytosolic PLCβ1 associates with stress granule proteins in intact cultured cells.

Stress granules are RNA/protein aggregates that allow cells to halt the translation of non-essential proteins when they are subjected to environmental stress. We find that many of the proteins that associate with PLCβ1 complexes directly contribute to RNA processing and ribosome assembly; and these proteins are found in PLCβ1 complexes isolated from PC12 cells as well as A10 cells. During the initiation stage of protein translation, polyadenylate binding protein PABP binds to the tail of mRNA which then associates to eIF4 allowing the mRNA-protein complex to bind the 40S subunit (*45*). A cytosolic form of PABP, i.e. PABPC1, was found in our PLCβ1 pull-downs, along with eIF4 subtypes, which binds to PABPC1 (see https://www.uniprot.org/uniprot/P11940). Several other eukaryotic initiation factors were also identified in our analysis.

An important step in the progression of translation is the hydrolysis of GTP on eIF2 catalyzed by the GTPase activity of eIF5. Our results indicate that eIF5A may be a primary binding partner for PLCβ1's association with stress granule proteins. EIF5A is found at very high levels in cells arrested at the G2/M checkpoint where protein translation is expected to be low. EIF5A has several regions in its sequence that are homologous to Gαq including a region where Gαq directly contacts PLCβ (aa 147-162) as indicated by homologous sequence alignment and chemical cross-linking (see (*46*)). We directly tested the association between PLCβ1 and eIF5A using purified proteins. Not only was the PLCβ1-eIF5A affinity in the same range as the affinity between PLCβ1 and C3PO (*15*) but binding was competitive both in solution and in cells. Because the binding site of C3PO overlaps the binding site of Gαq, PLCβ1 association with eIF5A will depend on the level of Gαq activation, and this behavior is observed in our studies. Thus, in the absence of Gαq stimulation, a population of cytosolic PLCβ1 may associate to eIF5A until specific events such as differentiation, causes PLCβ1 binding to shift to C3PO and inhibit of RNA-induced silencing.

We find that cytosolic PLCβ1 also binds to Ago2 as seen in pull-down studies, co-immunoprecipitation and FRET/FLIM. Our ability to disrupt their interactions by the addition of purified eIF5A suggest that it is a primary association. Ago2 is the key nuclease component of the RNA-induced silencing complex (RISC) (see (*47*)) and our previous work hinted an association between these enzymes (*14*). Sequence alignment of Ago2 and the TRAX subunits of C3PO shows four homologous regions ranging from ~20-40 aa in length and from 21-30% identity and 40-56%

homology (2-54, 87-119, 202-228, 109-136 on C3PO and 788-826, 555-598, 188-202, 831-858 Ago2). It is notable that at least three of the C3PO regions are potential interaction sites for PLCβ1 binding and at least one of these may be available for PLCβ1-Ago2 binding (*28*). By this argument, it is possible that PLCβ1 directly binds Ago2 through similar interactions as C3PO.

We determined whether PLCβ1 impacts stress granule formation by monitoring the behavior of two established stress granule markers, Ago2 and PABPC1. We initially used mild osmotic stress that may occur physiologically. Hypo-osmotic stress initiates a series of cellular events to reduce the number of osmolytes in the cell, such as the synthesis of glycogen from glucose, and as well as ion flow (*48*). While we expected osmotic strength to change the ability of PLCβ1 to interact with stress granules proteins by changes in tertiary or quaternary structure, we were surprised to find a large reduction in PLCβ1a in PC12 cells when osmotic stress is initially applied, although this effect is far less pronounced in A10 cells. PLCβ1a and 1b isoforms differ by ~20 amino acids in the C-terminal region but are similarly activated by Gαq. Cocco and colleagues have found that PLCβ1b, but not PLCβ1a, prevents cell death under oxidative conditions by impacting levels of key signaling proteins (*49*). Additionally, these two PLCβ1s may localize differently depending on the cell types (*32-35, 50, 51*). While our studies cannot adequately distinguish between these isozymes, it would be interesting to see the separate roles they may play in stress granule formation. We note that in conjunction with changes in PLCβ1 levels or properties that occur with osmotic stress, we also varied cytosolic PLCb1 levels by stimulating Gαq to drive PLCβ1 to the plasma membrane, and we down-regulated the enzyme using siRNA(PLCβ1). All these methods showed a connection between cytosolic PLCβ1 and the formation of particles.

Our studies showed that the stress granules formed by osmotic stress differ from ones formed from other stresses. While we find a dramatic assembly of Ago2 under osmotic stress, arsenite, oxidation and temperature shock produce particles that contain monomeric Ago2. Additionally, osmotic stress results in a large increase in the size distribution of cytosolic RNA whereas arsenite, oxidation and temperature does not. Studies in *S.cerevisiae* (*3*) indicate that hypo-osmotic stress promotes particles composed of markers of both P-bodies and stress granules supporting our findings that subjecting mammalian cells to hypo-osmotic stress forms particles with compositions that differ from other types of stress. Our results also suggest that these latter granules, which have low Ago2 content and are rich in proteins associated with RNA processing, such as G3BP, are poised to prevent the translation of genes whose protein products would not survive arsensite stress or oxidation, such as those involved in phosphorylation (*52*). In contrast, Ago2-rich granules, which are mediated by the Gαq/PLCβ1 pathway, may shift translation to genes whose protein products allow cells to better respond to external signals. Thus, unlike arsenite or other stresses, Gαq activation may give rise to more physiologically relevant particles.

We monitored the appearance of stress granules under hypo-osmotic conditions structurally by fluorescence imaging and functionally by the accumulation of large cytosolic RNAs. Parker and colleagues have shown that initially, stress granules are small and grow in size in a time-dependent manner (*5*). Here, we resolved particles over 10 μ^2 that form in the cytoplasm and the size and number of particles did not vary between 5 and 10 minutes after induction of stress. Additionally, while a very small population of eGFP-PLCβ1 incorporated into particles ~400 μ^2 these were unchanged with osmotic stress suggesting that PLCβ1 delivers proteins into particles but does not

incorporate into them. PABPC1 was associated with a high number of aggregates whose numbers were affected by the level of cytosolic PLCβ1 as determined by immunofluorescence. Formation of Ago2-associated particles, as monitored by both immunofluorescence and live cell imaging, was sensitive to Gαq stimulation but not to other stresses. Interestingly, the formation of stress granules associated with G3BP1, which does not appear to bind directly to PLCβ1, appears very sensitive to cytosolic PLCβ1 levels and shows extensive and diffuse aggregation. These data suggest that cells respond to Gαq activation by sequestering Ago2, G3BP1 and others into stress granules to halt the production of specific proteins.

Our results also show that the stress granules generated by Gαq activation are more closely related to the ones formed by PLCβ1 down-regulation and osmotic stress in terms of Ago2 aggregates and distinct from those produced by thermal or oxidative stress. Specifically, cold, heat, oxidative or arsenite stress does not result in Ago2 aggregation and does not significantly affect the sizes of cytosolic RNAs even though oxidative stress greatly reduces the cellular level of PLCβ1 along with many cellular proteins (*53*). Our results correlate well with the variability of stress granule composition with different types of stress (*37, 54, 55*).

A loss in cytosolic PLCβ1 may arrest the translation of specific proteins by promoting the formation of mRNA-Ago2-associated stress granules. In a preliminary study, we monitored the levels of the heat-inducible chaperone Hsp90A (*56*) with PLCβ1 down-regulation since Hsp90 is not strongly regulated by PLCβ1-C3PO (*14*) and because its transcripts may be associated with stress granules formed by arsenite exposure stress (*57*). Western blotting shows a reduction in Hsp90 levels with siRNA(PLCβ1) consistent with increased formation of Ago2-associated stress granules (**Fig. S2C**). The idea that sustained Gαq activation can regulate the production of specific proteins is intriguing and a comprehensive study of all of the transcripts affected by PLCβ1 is now underway.

Neurons and cardiomyocytes are long-lived cells and their health depends on reversible assembly of stress granules. We used PC12 cells as model for the role of stress granules in neurological diseases and A10 cells as a model for muscle cells regularly handle changes in osmolarity. We also used WYK-3M22 rat aortic smooth muscle cells as another model of muscle cells that is used as the nonmotensive control for spontaneously hypertensive rats, which are a common models of hypertension (*58*). We were pleased to find a similar set of stress related proteins in PLCβ1 complexes in the two cell lines with the exception of neural specific proteins and RNA-induced silencing proteins (i.e. Ago2 and C3PO). Thus, PLCβ1 may serve a similar role in many cell types by mediating stress granule formation but not in regulating RNA processing.

We constructed a simple thermodynamic model in which the partitioning of eIF5A into particulates is regulated by its association with PLCβ1 but note that eIF5A can easily be replaced with Ago2. The expression derived from this model shows the scope that PLCβ1 impacts stress granule formation. Specifically, if the total amount of eIF5A is much higher than PLCβ1, then stress granule formation will be independent of PLCβ1. Considering the high concentration of ribosomes in cells, it is difficult to estimate the amount of eIF5A available to bind PLCβ1. We know that microinjection studies that delivered ~10nM of eIF5A into cells can displace C3PO from PLCβ1 which can give us a quantitative handle for future studies. Regardless of the specific nature of eIF5A and its associated proteins, our data show that there is a concentration range of PLCβ1 that is sensitizes cells to stress granule formation and that this range is under the control of

Gαq activation. Additionally, endogenous levels of PLCβ1 help to control premature stress responses.

In summary, our studies suggest a model in which cytosolic PLCβ1 binds to stress granules protein complexes, to keep these proteins disperse under basal conditions. Activation of Gαq shifts the cytosolic population of PLCβ1 to the plasma membrane displacing stress granules proteins and promoting the formation of particles. This dynamic nature of PLCβ1 fits in well with FCS studies showing rapid movement of the enzyme between the cytosol and plasma membrane (*28*). We propose a model (**Fig. 15**) in which cells use cytosolic PLCβ1 levels to regulate the formation and timing of protein synthesis, and to prevent the formation of irreversible aggregates. We note that the quenching of Gαq/PLCβ1 calcium signals in cells under osmotic stress suggests that the stress granules may effectively block this signaling pathway.

We have previously found that PLCβ1 plays an important but unknown role in neuronal development. Specifically, the expression of PLCβ1a increases dramatically within the first 24 hrs of PC12 cells differentiation and the slowly decreases (*16*) leading to the question of why its expression is so variable. PLCβ1 is highly expressed in neuronal tissue where stress granule dysfunction has been implicated in disease (see (*59, 60*)). Our data suggest that PLCβ1 may act as a chaperone to keep stress granule proteins disperse under basal conditions. It is notable that reduced PLCβ1 levels are associated with a host of neurological disorders that may result from disruptions in calcium signaling, neuronal cells proliferation and differentiation (e.g. (*61-64*). Schizophrenia and suicide has been shown to specifically involve varying levels of PLCβ1a and 1b in the prefrontal cortex (*63*). It is also notable that the PLCβ1-associated proteins identified here play important roles in neuronal function. FXR proteins are associated with the most common form of hereditary mental retardation (see (*65, 66*)) while eIF5A is associated with neuronal growth and brain development (*67*). It is interesting to speculate connections between PLCβ1 neurological disorders and those associated with FXR and eIF5Awhich may involve dysfunction in stress granule assembly / disassembly.

MATERIALS AND METHODS

Cell culture: Rat phenochromocytoma (PC12) and rat aortic smooth muscle (A10) cells were obtained from ATCC. Wystar Kyoto rat 3M22 (WKO-3M22) cells, originally obtained from ATCC, were a generous gift from Dr. Marsh Rolle. PC12 cells were cultured in high glucose DMEM (GIBCO) with 10% heat-inactivated horse serum (GIBCO) and 5% fetal bovine serum (Atlanta Biologicals). Rat aortic smooth muscle (A10) cell lines were cultured in high glucose DMEM with 10 % fetal bovine serum and 1% sodium pyruvate. WKY-3M22 cell lines were cultured in high glucose DMEM (Corning) without L-glutamine with 10% fetal bovine serum, 1% sodium pyruvate, 1% non-essential amino acids (VWR) and 1% L-glutamine (VWR). All cells were incubated at 37°C in 5% CO_2. Cells were synchronized in the G2/M phase as described (*17*). Briefly, 2mM thymidine was added to cells for 24 hours, the medium was removed and replaced by fresh complete culture medium for 8 hours after, 40 ng/ml nocodazole was added.

Plasmids: EGFP-hArgonaute-2 (eGFP-Ago2) was purchased from (Addgene plasmid # 21981) and was prepared in the laboratory of Philip Sharp (MIT). MCherry-Ago2 was a gift from

Alissa Weaver (Vanderbilt University). EGFP-G3BP1 was purchased from Addgene (plasmid # 119950) and was prepared in the laboratory of Jeffrey Chao (Friedrich Miescher Institute). MCherry-TRAX-C1 plasmid was constructed by inserting TRAX gene between BamHI and EcoRI restriction sites in mCherry-C1 backbone using T4 DNA ligase (NEB). Plasmid transfections and siRNA knock-downs were done using Lipofectamine 3000 (Invitrogen) in antibiotic-free media. Medium was changed to one containing antibiotic (1% Penicillin/Streptomycin) 12-18 hours post-transfection. For every FLIM experiment, two separate samples were prepared: donor alone, donor in presence of acceptor.

Co-immunoprecipitation: PC12 cells were lysed in buffer containing 1% Triton X-100, 0.1% SDS, 1x protease inhibitor cocktail and 10 mM Tris, pH 7.4. After 200 µg of soluble protein was incubated with 2 µl of PLCβ1/Ago2 antibody overnight at 4 °C. After addition of 20 mg of protein A-Sepharose 4B beads (Invitrogen), the mixture was gently rotated for 4 h at 4 °C. Beads were washed three times with lysis buffer, and bound proteins were eluted with sample buffer for 5 min at 95 °C. Precipitated proteins were loaded onto two 10% polyacrylamide gel. After SDS-PAGE one gel was transferred to nitrocllulose membranes, proteins were detected by immunoblotting with anti-PLCβ1 (D-8, Santa Cruz) and anti-Ago2 (Abcam ab32381 Lot# GR3195666-1)) antibody.

Application of stress conditions: For the hypo-osmotic stress conditions, the medium was diluted with 50% water for 5 minutes before it was removed and replaced with Hank's Balanced Salt Solution (HBSS) for imaging. For the arsenite treatment, a stock solution of 100mM arsenite in water was prepared. Cells were exposed to a final concentration of 0.5mM arsenite for 10 minutes before the medium was removed and replaced by HBSS for imaging. For the heat shock, cells were incubated at 40°C for 1 hour whereas for the cold shock cells were incubated at 12°C for 1 hour. For the oxidative stress treatment, a stock solution of 1M $CoCl_2$ was prepared and cells were exposed to a final concentration of 1mM $CoCl_2$ for 12-16 hours (overnight) before the medium was removed. Puromycin treatment was carried out at a concentration of 20 µg/mL for 30 minutes in both PC12 and WKO-3M22 cell lines.

FRET studies between purified PLCβ1 and eIF5A: PLCβ1 was purified by over-expression in HEK293 cells as previously described, see (*29*). Purification of eIF5A was based on the method described in (*27*). Purified eIF5A in a pET28-mhl vector was expressed in bacteria (Rosetta 2 DE3 plysS) by inoculating 100 mL of overnight culture grown in Luria-Bertani medium into a 2L of Terrific Broth medium in the presence of 50 µg/mL kanamycin and 25 µg/mL chloramphenicol at 37°C. When OD 600 reached ~3.0, the temperature of the medium was lowered to 15°C and the culture was induced with 0.5 mM IPTG. The cells were allowed to grow overnight before harvesting and stored at -80°C. Frozen cells from 1.8L TB culture were thawed and resuspended in 150 mL lysis Buffer (20 mM HEPES pH 7.5, 300 mM NaCl, 5% glycerol, 2mM BME, 5mM imidazole, 0.5% CHAPS, protease inhibitor cocktail, 5 µL DNAase) and lysed using a panda homogenizer. The lysate was centrifuged at 15,000 rpm for 45 minutes, added to a cobalt column in binding (20 mM HEPES pH 7.5, 300 mM NaCl, 5% glycerol, 2mM BME, 5mM imidazole),

equilibrated in a 4 x 1 mL 50% flurry of cobalt resin, passed the 150 ml of supernatant through each cobalt column at approx.. 0.5ml/min, washed with (1) 20 mM HEPES pH 7.5, 300 mM Knack, 5% glycerol, 2mM BME, 30 mm imidazole, and then (2) 20 mM HEPES pH 7.5, 300 mM NaCl, 5% glycerol, 2mM BME, 75 mM imidazole and eluted with 20 mM HEPES pH 7.5, 300 mM NaCl, 5% glycerol, 2mM BME, 300mM imidazole.

Protein associations were assessed by FRET using sensitized emission. Briefly, PLCβ1a and eIF5A were covalently labeled on their N-terminus with Alexa488 and Alexa594 (Invitrogen), respectively, and the increase in acceptor emission when exiting at the donor wavelength in the presence of Alexa488-PLCβ1 was noted. Studies were repeated using by pre-binding catalytically inactive C3PO with Alexa488-PLCβ1.

Mass Spectrometry: Mass spectrometry measurements were carried out as previously described at the University of Massachusetts Medical School (*68*). Cytosolic fractions were isolated from cells, and proteins bound to monoclonal anti-PLCβ1a (Santa Cruz, D-8) were separated by electrophoresis. Protein bands were isolated by cutting the gels into 1x1 mm pieces, placed in 1.5 mL eppendorf tubes with 1mL of water for 30 min. The water was removed and 200µl of 250 mM ammonium bicarbonate was added. Disulfide bonds were reduced by incubating with DTT at 50ºC for 30 min followed by addition of 20 µl of a 100 mM iodoacetamide 30 min at room temperature. The gel slices were washed 2 X with 1 mL water aliquots. The water was removed and 1mL of 50:50 (50 mM ammonium bicarbonate: acetonitrile) was placed in each tube and samples were incubated at room temperature for 1hr. The solution was then removed and 200 µl of acetonitrile was added to each tube at which point the gels slices turned opaque white. The acetonitrile was removed and gel slices were further dried in a Speed Vac (Savant Instruments, Inc.). Gel slices were rehydrated in 100 µl of 4ng/µl of sequencing grade trypsin (Sigma) in 0.01% ProteaseMAX Surfactant (Promega): 50 mM ammonium bicarbonate. Additional bicarbonate buffer was added to ensure complete submersion of the gel slices. Samples were incubated at 37 C for 18 hrs. The supernatant of each sample was then removed and placed in a separate 1.5 mL eppendorf tube. Gel slices were further extracted with 200 µl of 80:20 (acetonitrile: 1% formic acid). The extracts were combined with the supernatants of each sample. The samples were then completely dried down in a Speed Vac.

Tryptic peptide digests were reconstituted in 25 µL 5% acetonitrile containing 0.1% (v/v) trifluoroacetic acid and separated on a NanoAcquity (Waters) UPLC. In brief, a 2.5 µL injection was loaded in 5% acetonitrile containing 0.1% formic acid at 4.0 µL/min for 4.0 min onto a 100 µm I.D. fused-silica pre-column packed with 2 cm of 5 µm (200Å) Magic C18AQ (Bruker-Michrom) and eluted using a gradient at 300 nL/min onto a 75 µm I.D. analytical column packed with 25 cm of 3 µm (100Å) Magic C18AQ particles to a gravity-pulled tip. The solvents were A, water (0.1% formic acid); and B, acetonitrile (0.1% formic acid). A linear gradient was developed from 5% solvent A to 35% solvent B in 90 minutes. Ions were introduced by positive electrospray ionization via liquid junction into a Q Exactive hybrid mass spectrometer (Thermo). Mass spectra were acquired over m/z 300-1750 at 70,000 resolution (m/z 200) and data-dependent acquisition selected the top 10 most abundant precursor ions for tandem mass spectrometry by HCD fragmentation using an isolation width of 1.6 Da, collision energy of 27, and a resolution of 17,500.

Raw data files were peak processed with Proteome Discoverer (version 2.1, Thermo) prior to database searching with Mascot Server (version 2.5) against the Uniprot_Rat database Search parameters included trypsin specificity with two missed cleavages or no enzymatic specificity. The variable modifications of oxidized methionine, pyroglutamic acid for N-terminal glutamine, phosphorylation of serine and threonine, N-terminal acetylation of the protein, and a fixed modification for carbamidomethyl cysteine were considered. The mass tolerances were 10 ppm for the precursor and 0.05Da for the fragments. Search results were then loaded into the Scaffold Viewer (Proteome Software, Inc.) for peptide/ protein validation and label free quantitation. These data were analyzed using percentage of total spectra in Scaffold4 software before plotting with Sigma Plot 14.

Fluorescence correlation (FCS) and—FCS measurements were performed on the dual-channel confocal fluorescence correlation spectrometer (Alba version 5, ISS Inc.) equipped with avalanche photodiodes and a Nikon Eclipse Ti-U inverted microscope as previously described (*31*).

Number and Brightness (N&B) measurements: N&B theory and measurement has been fully described (see (*36*). Experimentally, we collected ~100 cell images viewing either free eGFP (control) or eGFP-Ago2, at a 66nm/pixel resolution and at a rate of 4 µs/pixel. Regions of interest (256x256 box) were analyzed from a 320x320 pixel image. Offset and noise were determined from the histograms of the dark counts performed every two measurements. Number and Brightness (N&B) data was analyzed using SimFC (www.lfd.uci.edu).

N&B analysis. N&B defines the number of photons associated with a diffusing species by analyzing the variation of the fluorescence intensity in each pixel in the cell image. In this analysis, the apparent brightness, B, in each pixel is defined as the ratio of the variance, σ, over the average fluorescence intensity <k>:

$$B = \sigma 2/< k >.$$

and

$$< k > = \epsilon n$$

where n is the number of fluorophores. The determination of the variance in each pixel is obtained by rescanning the cell image for ~100 times as described above. The average fluorescence intensity, <k> is directly related to the molecular brightness, €, in units of photons per second per molecule, and n. B can also be expressed as

$$B = \epsilon + 1$$

And the apparent number of molecules, N, as

$$N = \epsilon n /(\epsilon + 1)$$

Fluorescence lifetime imaging measurements (FLIM)—FLIM measurements were performed on the dual-channel confocal fast FLIM (Alba version 5, ISS Inc.) equipped with photomultipliers and a Nikon Eclipse Ti-U inverted microscope. A x60 Plan Apo (1.2 NA, water immersion) objective and a mode-locked two-photon titanium-sapphire laser (Tsunami; Spectra-

Physics) was used in this study. The lifetime of the laser was calibrated each time before experiments by measuring the lifetime of Atto 435 in water with a lifetime of 3.61 ns (Ref) at 80MHz, 160MHz and 240MHz. The samples were excited at 800/850 nm, and emission spectra were collected through a 525/50 bandpass filter. For each measurement, the data was acquired until the photon count was greater than 300. Fluorescence lifetimes were calculated by allowing ω = 80 MHz:

$$\tau = \frac{S}{G * 2\pi * \omega}$$

Statistical analysis: Data was analyzed using Sigma Plot 13 statistical packages that included student's t-test and one way analysis of variance (ANOVA).

Dynamic light scattering (DLS): DLS measurements were carried out on a Malvern Panalytical Zetasizer Nano ZS instrument. For these experiments, mRNA from PC12 cells was extracted following the instructions from the Qiagen Mini Kit (Cat #: 74104). Cells were exposed to stress, treated with siRNA(PLCβ1a), or transfected constitutively-active GαqRC (*69*), before the mRNA was extracted. For these measurements, approximately 50μL of extracted mRNA in RNase free water was added in a Hellma Fluorescence Quartz Cuvette (QS-3.00mm). Each sample was run 3 times, 10 minutes per run. Control samples were repeated 6 times, PLCβ knockdown twice, and Gαq over-expression once.

Particle analysis: Samples were imaged using a 100X/1.49 oil TIRF objective to microscopically count the number of particles formed under different conditions per μm^2. For each condition, 10-20 cells were randomly selected and z-stack measurements were taken (1.0 μ/frame). Analysis was performed using ImageJ and Fiji ImageJ in two ways. First, each measurement was thresholded before analyzing and the number of particles per frame per measurement was averaged. Second, all z-stack measurements were combined to create a 3D image per sample before analyzing the number of particles per and averaging the results. Both methods produced identical results.

Microinjection studies: Microinjection of a solution of 100 nM eIF5A into PC12 cells was carried out using an Eppendorf Femtojet Microinjector mounted on Nikon Eclipse Ti-U inverted confocal microscope under 0.35 PSI pressure and 0.5 Seconds injection time per injection.

Immunofluorescence: Cells were samples were fixed with 3.7% formaldehyde and permeabilized using 0.1% triton X-100 in PBS then blocked using 10% goat serum, 5% BSA, 50mM glycine in PBS. Cells were then stained with primary antibodies from (Abcam), incubated for 1 hour, washed and treated with a secondary antibody for 1 hour. After another wash, the cells were viewed on either a Zeiss Meta 510 laser confocal microscope. Data were analyzed using Zeiss LSM software and Image J. The secondary antibodies used were Anti-rabbit Alexa-488 for Ago-2 and Anti-mouse Alexa 647 for PABPC1.

Calcium signal imaging: Single cell calcium measurements were carried out by labeling the cells with Calcium Green (Thermofisher), incubating in HBSS for 45 minutes and washing

twice with HBSS. Release of intracellular calcium in live PC12 cells was initiated by the addition of 2 μM carbachol before imaging the time seirs on a Zeiss LSM 510 confocal microscope excitation at 488 using time series mode as previously described, see (*70*).

Western blotting: Samples were placed in 6 well plates and collected in 250μL of lysis buffer that included NP-40 and protease inhibitors as mentioned before, sample buffer is added at 20% of the total volume. After SDS-PAGE electrophoresis, protein bands were transfer to nitrocellulose membrane (Bio-Rad, California USA). Primary antibodies include anti-PLCβ1 (Santa Cruz sc-5291), anti-Ago2 (abcam ab32381), anti-PABPC1 (Santa Cruz sc-32318), anti-G3BP1 (Santa Cruz sc-81940), anti-actin (abcam ab8226) and anti-eGFP (Santa Cruz sc-8334). Membranes were treated with antibodies diluted 1:1000 in 0.5% milk, washed 3 times for 5 minutes, before applying secondary antibiotic (anti-mouse or anti-rabbit from Santa Cruz) at a concentration of 1:2000. Membranes were washed 3 times for 10 minutes before imaging on a BioRad chemi-doc imager to determine the band intensities. Bands were measured at several sensitivities and exposure times to insure the intensities were in a linear range. Data were analyzed using Image-J.

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FIGURE LEGENDS

1. *Major proteins complexed to PLCβ1 in PC12 cells as identified by mass spectrometry*. Proteins associated with PLCβ1 in cytosolic fractions of PC12 cells were pulled down using a monoclonal antibody in **A-** unsynchronized cells primarily in the G1 phase, or **B-** PC12 cells arrested in the G2/M phase. Levels of proteins were calcuated as described in Methods. Underlined proteins were found to be phosphorylated. All proteins identified in panel (**A**) were also found in an identical study in which proteins associated with Ago2 were identified except for eIF5B. Proteins that were found to be phosphorylated include FXR2 (**A**) and eIF3A, 3B and 3C (**B**).

2. *Competitive binding of protein partners to PLCβ1 in PC12 cells*. Using a monoclonal anti-PLCβ1 to isolate PLCβ1-associated proteins from the cytsolic fractions of undifferentiated PC12 cells, we monitored two stress-granule associated proteins, PABPC and Ago2. Figures **A, B** presents a compilation of band intensities in mock transfected cells (control) and in cells over-expressing Ago2, C3PO or constituatively active Gαq, where * denotes $p<0.001$. Differences between C3PO and Gaq pulled down with PLCβ1/PABPC1 were not significant, $p=0.81$ and 0.54, respectively. Data are from n=8 independent experiments and S.D. is shown. A similar study was repeated using monoclonal anti-GFP antibody to isolate the eGFP tagged on either PLCβ1 or G3BP1 and the associated proteins from whole transfected PC12 cells. A non-binding conrol, actin, did not show bands. Figures **C, D** presents a compilation of band intensities in mock transfected cells (control) and in cells over-expressing PLCβ1 or G3BP1. Data are from n=5 experiments for PLCβ1, PABPC1 and Ago2 and n=2 for G3BP1. A non-binding control, IQGAP2, did not show bands. Full blots for representative samples can be found in the supplemental section, **Fig. S7-8**.

3. *PLCβ1 binds to Ago2 in PC12 cells*. Examples of phasor plots in which PC12 cells were transfected with (**A)** eGFP-PLCβ1 or (**B)** eGFP-PLCβ1 and mCherry-Ago2 where the raw lifetimes are plotted as S versus G (see text). Each point in the phasor plots corresponds to the lifetime from the eGFP-PLCβ1 emission measured in each pixel from the corresponding cell image shown in the graph. Images are representative of 5-8 cells over 3 independent experiments. **C –** a phasor diagram where the non-FRET and FRET points are selected and the pixels are shown in the cell images. We note that no significant FRET was detected in control studies of eGFP-C3PO and mCherry-Ago2 (**Fig. S6**).

4. *eIF5A competes with C3PO for PLCβ1 in PC12 cells*. **A –** Fluorescence binding studies showing changes in FRET bewteen purified Alexa594-eIF5A (**Fig. S2A**) titrated into solutions of Alexa488-PLCβ1(brown circles), the Alexa488-PLCβ1/C3PO complex (orange circles), or Alexa488-C3PO (green triangles) where FRET is determined by subtracting the fluorescence intensity of Alexa594-eIF5A alone to its intensity in the presence of the different labeled proteins (sensitized emission). Data were corrected for background, where n=3 and SD is shown. **B** – Example of a phasor plot and the corresponding image from a FLIM measurement of eGFP-PLCβ1 expressed in a PC12 cells. The heat map indicates eGFP signal intensity. **C -** A similar study as in (**B)** except the PC12 cell is cotransfeted with eGFP-PLCβ1 and mCherry-C3PO (TRAX). Note the movement of pixels into the interior of the phasor arc due to FRET. Purple dots indicate pixels represented in the phasor plot. **D -** The same study as in (**C**) except this cell was

microinjected with purifed, unlabeled eIF5A. Note the movement of points back to the phasor arc showing a loss of FRET due to displacement of C3PO from PLCβ1. **E** - Compilation of eGFP-PLCβ1 lifetime results for 2 independent studies where n=10 cells for each study and where a negative control using free mCherry is included. Comparison of data before and after eIF5A microinjection is statistically significant p=<0.001 t-10.665 and f value for Anova test is 96.606.

5. *The effect of osmotic stress on cytosolic PLCβ1 in PC12 cells.* **A-** A western blot of the cytosolic fractions of PLCβ1 at 300 mOsm under control conditions where PLCβ1a is the upper band of the doublet and PLCβ1b is the lower band. While the intensities of these band are unchanged 10 minutes after Gαq stimulation with 5μM carbachol, PLCβ1a is not detected at 150 mOsm for 5 and 30 minutes. PABPC1 and β-tubulin bands are shown for comparison and n=3. **B** – Results of a study in which eGFP-PLCβ1 was transfected into undifferentiated PC12 cells and changes in cytosolic fluorescence intensity in the a slice in middle of the cell was quantified. Identical behavior was seen over 9 independent experiments, and we note that the plasma membrane population showed similar changes in intensity. **C-** A study showing the change in calcium release when PC12 cells labeled with Calcium Green are stimulated with 5 μM carbachol under basal conditions (300 mOsm) and hypo-osmotic stress (150 mOsm) for 10 minutes where n=12 and SD is shown, and where that basal points for basal and osmotic stress completely overlap.

6. *The effect of PLCβ1 on the formation of PABPC1-associated particles in PC12 cells.* The size and number of particles associated with monoclonal anti-PABPC1 in the cytosol of fixed and immunostained PC12 cells was measured on a 100x objective and analyzed using Image J (see methods). **A –** Treatment of cells with siRNA(PLCβ1) results in the formation of larger aggregates relative to mock-transfected controls. An enlarged version of the plot is shown directly below to allow better comparison. **B-** While osmotic stress (150 mOsm, 5 minutes) does not affect the size or number of PABPC1-associated particles, PLCβ1 down-regulation causes a significant increase in particle size and number. **C-** Stimulation of Gαq by treatment with 5 μM carbachol also impacts particle size. All measurements are an average of 3 independent experiments that sampled 10 cells, where SD shown and where the p values was determined using ANOVA.

7. *The effect of PLCβ1 on the formation of Ago2 and G3BP1 associated particles in PC12 cells.* In similar study in **Fig. 6**, the size and number of particles associated with anti-Ago2 in the cytosol of PC12 cells was measured on a 100x objective and analyzed using Image J (see methods). **A –** Treatment of cells with siRNA(PLCβ1) results in the formation of numerous small aggregates relative to mock-transfected controls. **B-** Subjecting cells to 5 minutes of osmotic stress (150 mOsm) does not affect the size or number of Ago2-associated particles while siRNA(PLCβ1) causes a significant increase in the number of small aggregates. **C-** Stimulation of Gαq by treatment with 5 μM carbachol results in the formation of a large number of small aggregates. Similar behavior is observed when PLCβ1 is down-regulated. **D-** Analysis of particles associated with mCherry-Ago2 in live PC12 cells under control, 150 mOsm osmotic stress for 5 minutes and 5μ carbachol stimulation. **E-** Analysis of particles associated with eGFP-G3BP1 in live PC12 cells under control, 150 mOsm osmotic stress for 5 minutes and 5μ carbachol stimulation. **F-** Particles associated with eGFP-PLCβ1 in live cells under basal (300 mOsm) and stress (150 mOsm, 5 min) conditions. Measurements in **A-C** are an average of 3 independent experiments that

sampled 10 cells, while measurements in **D-F** are an average of 3 independent experiments that sampled 5 cells. For **A-F,** SD is shown and for **A, C-F** the p values compare control versus osmotic stress while **B** compares cotrol versus osmotic stress + siRNA(PLCβ1). P values were determined using ANOVA.

8. *Change in colocalization of Ago2 and PABPC1 particles with osmotic stress*. **A-** Images of PC12 cells immunstained for Ago-2 (*green*) and PABPC1 (*red*) under (*top to bottom*) basal conditions, when the osmolarity is lowered from 300 to 150 mOsm, when cells are treated with siRNA(PLCβ1) under normal conditions and under osmotic stress. **B-** Graph of the resulting colocalization data were a significant change between 50% osmotic stress sample with wt-PLCβ1 versus siRNA-PLCβ1 samples is noted p=0.002 n=20. Scale bars are 20 μm long.

9. *Ago2 aggregation in PC12 cells as monitored by N&B*. The *top panels* **(A-F)** are the N&B data that display the pixels that correspond to different brightness versus intensity values. The pixels contained in the red boxes correspond to the same values found for free eGFP and correspond to monomeric eGFP-Ago2. Points outside the red boxes, shown in green and blue, correspond to higher order species. The pixels corresponding to monomeic (red) and higher order mEFGP-Ago2 aggregates (green and blue) can be seen in the cell images directly below (*middle panels*, **G-L**). The *bottom panels* (**M-R**) show the corresponding fluorescence microscopy images where the purple pixels denote Ago2 aggregates. Panels **A, G, M** are control cells (n=8); Panels **B, H, N** are cells subjected to hypo-osmotic stress (150 mOsm, 5 min) (n=8); Panels **C, I, O** are cells subjected at cold shock 12ºC for 1 hr (n=6); Panels **D, J, P** are cells subjected to heat shock at 40ºC for 1 hr (n=6); Panels **E, K, Q** are cells subjected to arsenite stress (0.5mM, 10 min) (n=5); Panels **F, L, R** are cells subjected to carbachol stimulation (5μm, 10 min) (n=5). Scale bars are 10 μm long.

10. *G3BP1 aggregation in PC12 cells as monitored by N&B*. The *top panels* **(A-D)** are the N&B data that display the pixels that correspond to different brightness versus intensity values. The pixels contained in the red boxes correspond to the same values found for untreated PC12 cells transfected with eGFP-G3BP1. Note that untreated samples (**A**, **E** and **I**) contains both monomeric and higher order species (n=4). The green and blue boxes contain pixels corresponding to enhanced aggregation upon hypo-osmotic stress (150 mOsm, 5 min) (**B, F, J**) (n=4), PLCβ1 down-regulation (**C, G, K**) (n=4) and carbachol stimulation (5μm, 10 min) (**D,H, L**) (n=4). Scale bars are 10 μm long.

11. *PLCβ1 levels impacts the size of cytosolic RNAs in PC12 cells.* **A-** The size distribution of cytosolic RNA isolated from PC12 cells was measured by dynamic light scattering for control conditions (*black*) and was found to shift to higher sizes with hypo-osmotic stress (150 mOsm 5 min, *green*), over-expression of constituatively active Gαq (*blue*), and down-regulation of PLCβ1 (*pink*). Note that a peak at small RNA sizes is seen for these latter two samples due to reversal of inhibition of C3PO activity by PLCβ1. *Inset*– DLS spectra of cytosolic RNA extracted from control cells and cells treated with puromyocin to irreversibly form stress granules where the x-axis is from 0-3000 nm. **B-** An identical study study showing the size distribtion of control cells (*black*) as shown in (**A**), cells subjected to hypo-osmotic stress (150 mOsm 5min, *red*) also shown in (**A**), heat shock (40°C for 1 hour, green), cold shock (12ºC for 1 hour, *blue*), arsenite treatment (0.5mM 10 min, *pink*).

We note that no changes were observed in cells subjected to oxidatiave stress (12 mM $CoCl_2$ 8 hrs) (**Fig. S4**). Normalized data are shown. Each sample was scanned 3 times with 10 minutes per run. The number of independent samples were control samples 6, PLCβ1 knockdown and Gαq over-expression, 2.

12. *The effect of PLCβ1 on the stress granule formation in A10 cells.* **A-** Mass spectrometry analysis for proteins associated with PLCβ1 in A10 cells under normal osmotic conditions and **B-** after 5 minutes of hypo-osmotic stress (150 mOsm). Shown below (**C-E)** are results for The size and number of particles associated with anti-PABPC1 in the cytosol of A10 cells was measured on a 100x objective and analyzed using Image J (*see methods*). **C-** Treatment of cells with siRNA(PLCβ1) results in the formation of larger aggregates relative to mock-transfected controls. **D -** Osmotic stress (150 mOsm) enhances the formation of PABPC1-associated particles and this behavior is promoted by PLCβ1 down-regulation. **E-** Stimulation of Gαq by treatment with 5 μM carbachol also impacts particle size. All measurements are an average of 3 independent experiments that sampled 10 cells, where S.D. is shown and p values were determined using ANOVA.

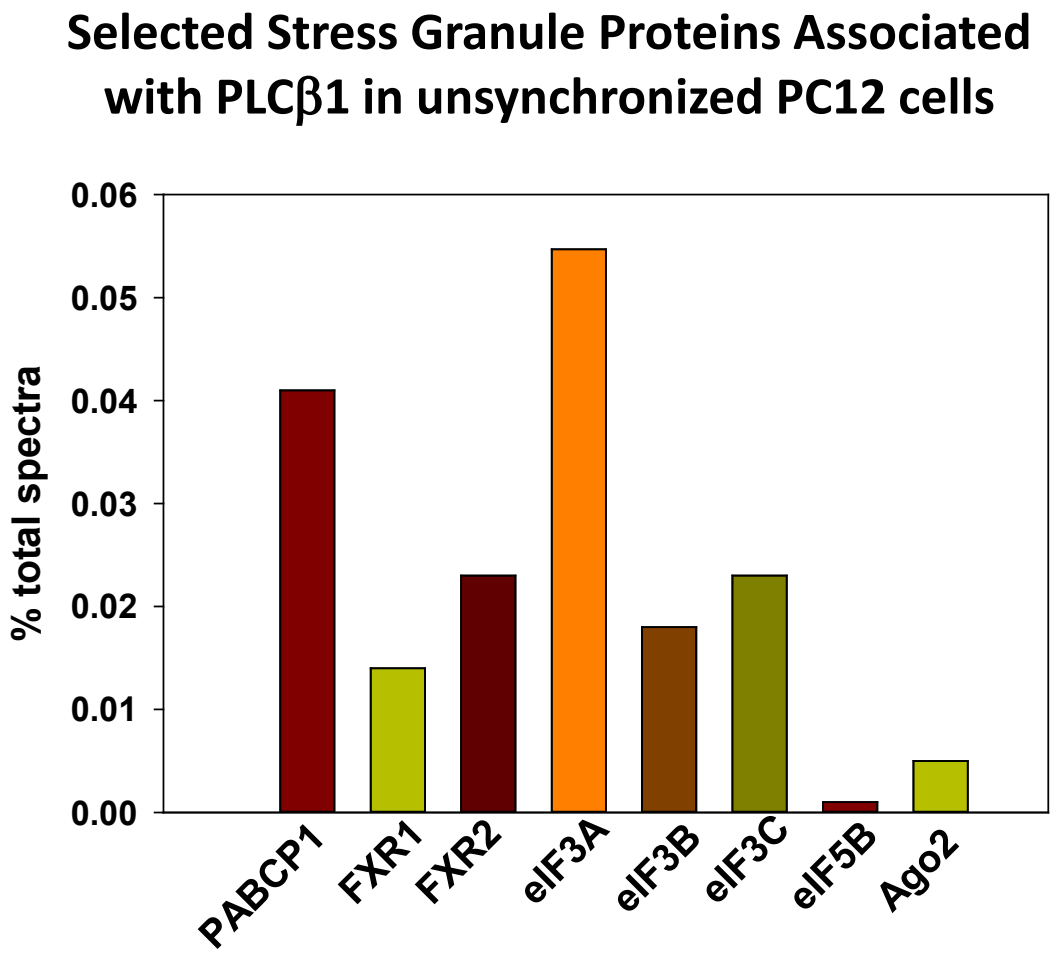
13. *N&B analysis of eGFP-Ago2 aggregation in WKO-3M22 cells.* The *top panels* (**A-D**) show graphs of the brightness versus intensity with the pixels of the colored boxes corresponding to the specific regions in the cells (**E-H**) using SIM-FCS 4 software. The *bottom panels* show the corresponding fluorescence microscopy images in ISS (**I-L**). The red box corresponds to monomeric eGFP-Ago2 while points outside this box and in the green and blue boxes correspond to higher order species. Panels **A, E, I are** control cells (n=4); Panels **B, F, J** are cells subjected to hypo-osmotic stress (150 mOsm, 5 min) (n=5); Panels **C, G, K** are cells subjected to arsenite stress (0.5mM, 10 min) (n=6); Panels **D, H, L** are cells subjected to carbachol stimulation (5μm, 10 min)(n=5); Panel **M** are cells treated with siRNA PLCβ1 (n=4); Panel **N** are cells treated with siRNA PLCβ1 and arsenite (0.5mM 10 min) (n=5); Panel **O** are cells treated with siRNA PLCβ1 and osmotic stress (150 mOsm) (n=5); Panel **P** are cells treated with siRNA PLCβ1 and carbachol stimulation (5μM 10 min)(n=3); Panel **Q** is a plot of the size distribution of cytosolic RNA of WKO-3M22 cells as measured by dynamic light scattering for control conditions (*black*), osmotic conditions (150 mOsm 5min, *red*) and stimulation of Gαq by treatment with carbachol (5 μM 10 min, *green*) where n =3. Scale bars are 10 μm long.

14. *Particle formation is inversely related to PLCβ1 levels*. Relationship between the number of particles and average area of PABPC1 particles found in **A-** PC12 and **B-** A10 cells. **C-** shows the inverse relationship of the number of particles and the estimated concentraiotn of total cytosolic PLCβ1.

15. *Model of the multiple interactions of PLCβ1 in cells*. Under basal conditions, PLCβ1 is distibuted both on the plasma membrane and in the cytosol where it may interact with stress granules proteins. Activation of Gαq promotes movement of PLCβ1 to the plasma membrane releasing stress granule proteins and promoting particle formation.

Fig. 1 ***Major proteins complexed to PLCβ1 in PC12 cells as identified by mass spectrometry***.

A



B

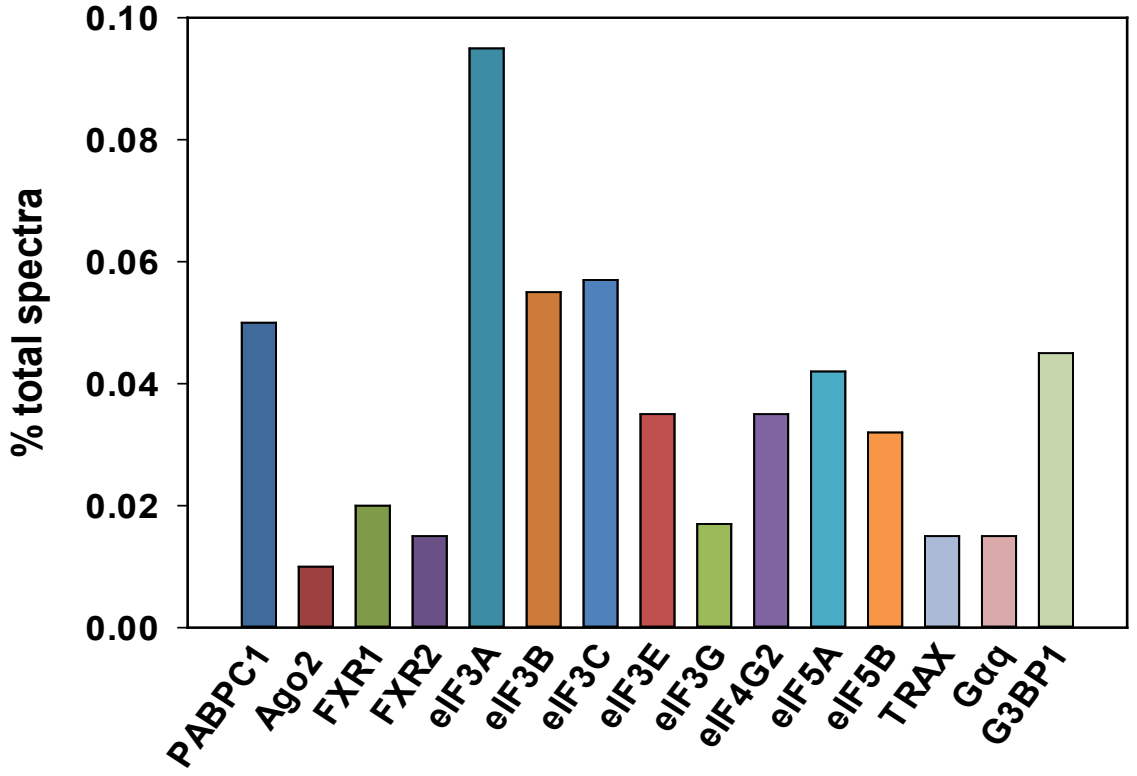
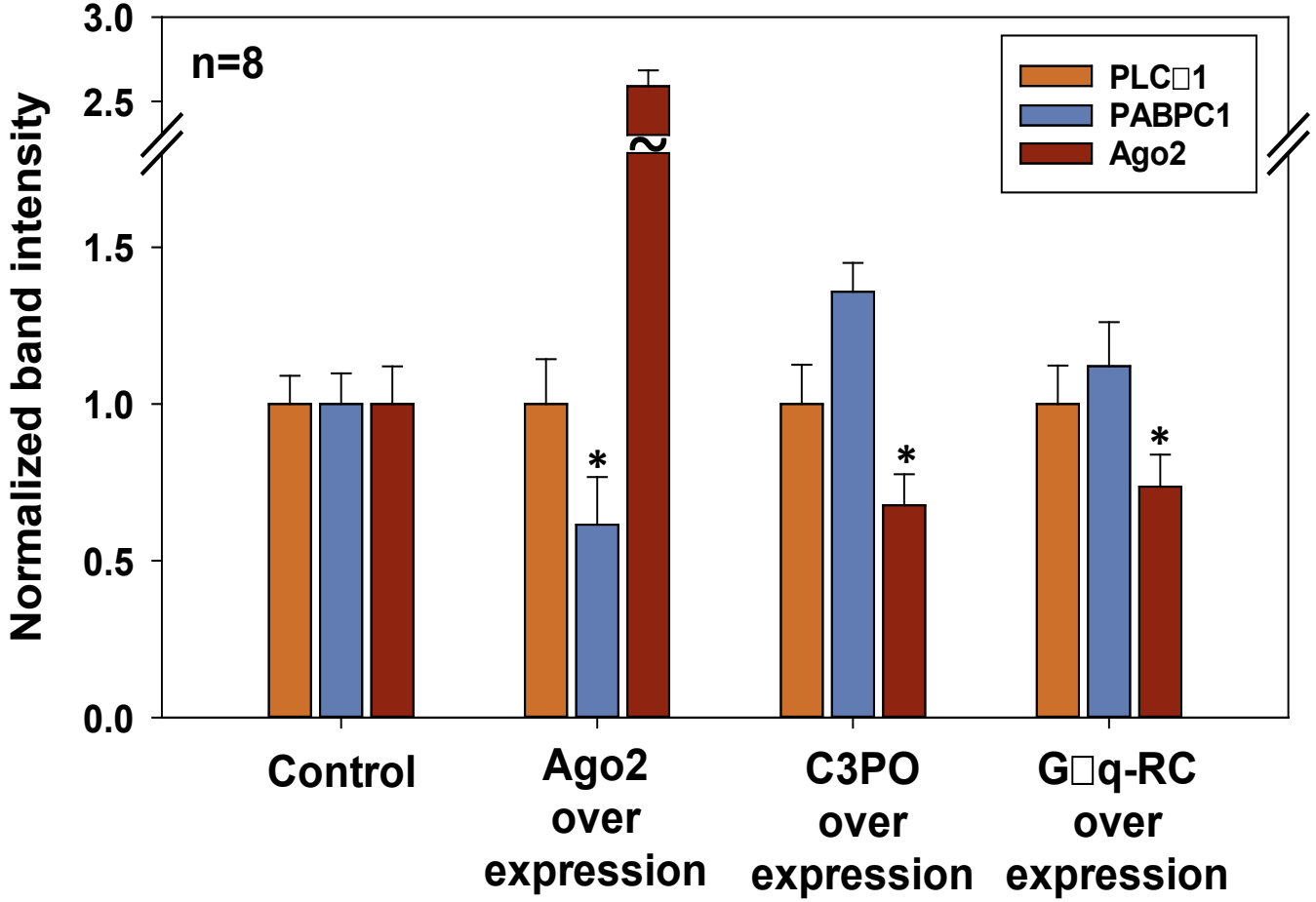


Fig. 2 ***Competitive binding of protein partners to PLCβ1 in PC12 cells.***

A

Immunoprecipitation PABPC1 and Ago2 from PLCβ1 pull-downs



B

Western blot from PLCβ1 pull-down

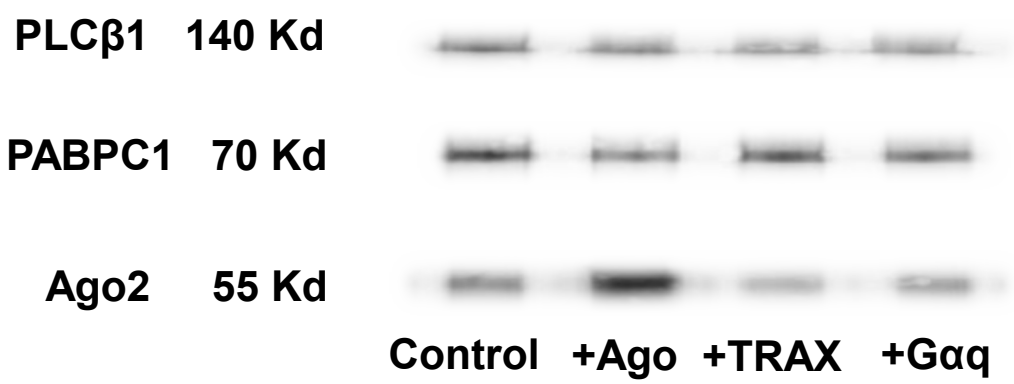
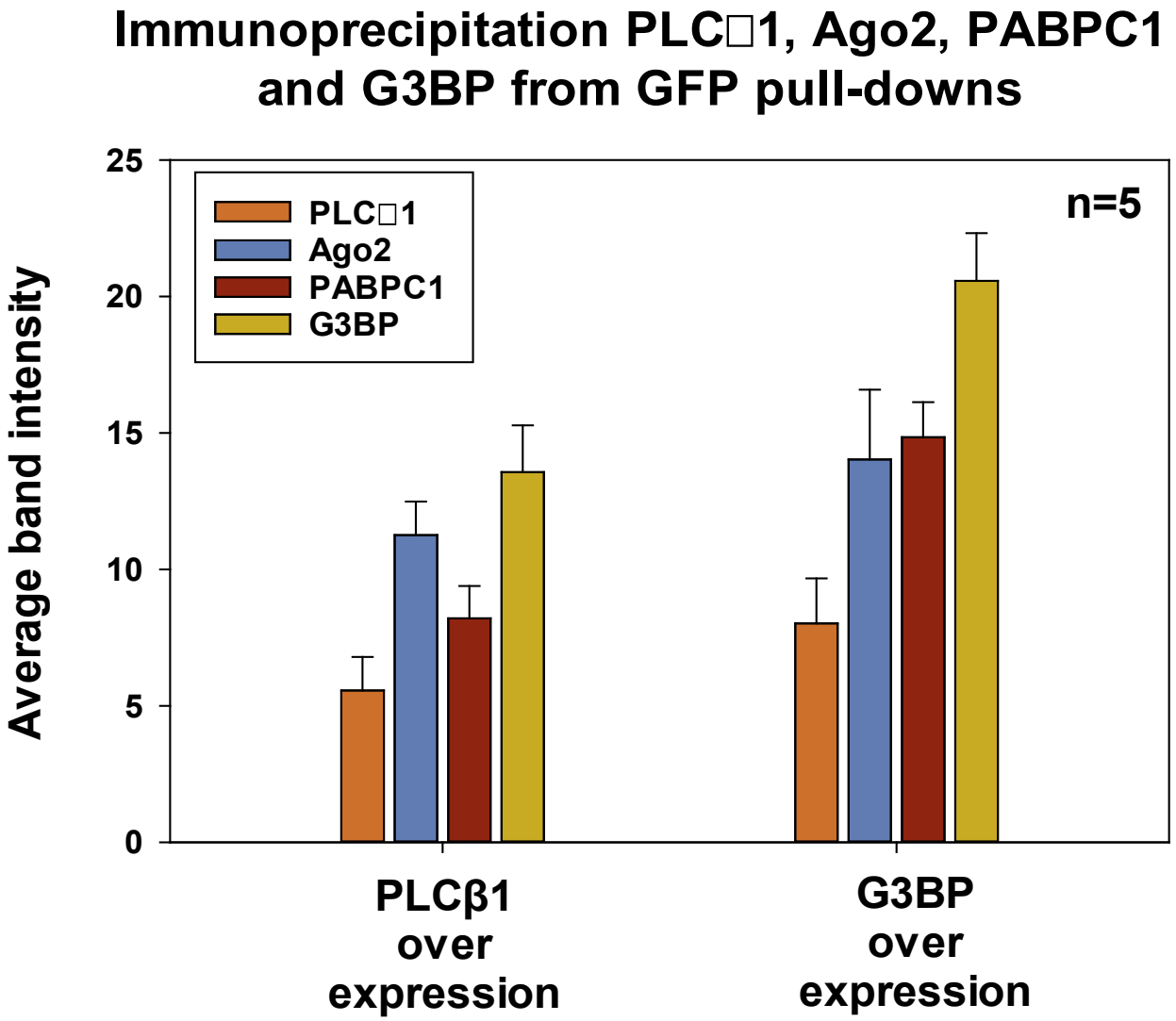


Fig. 2 ***Competitive binding of protein partners to PLCβ1 in PC12 cells***

C



D

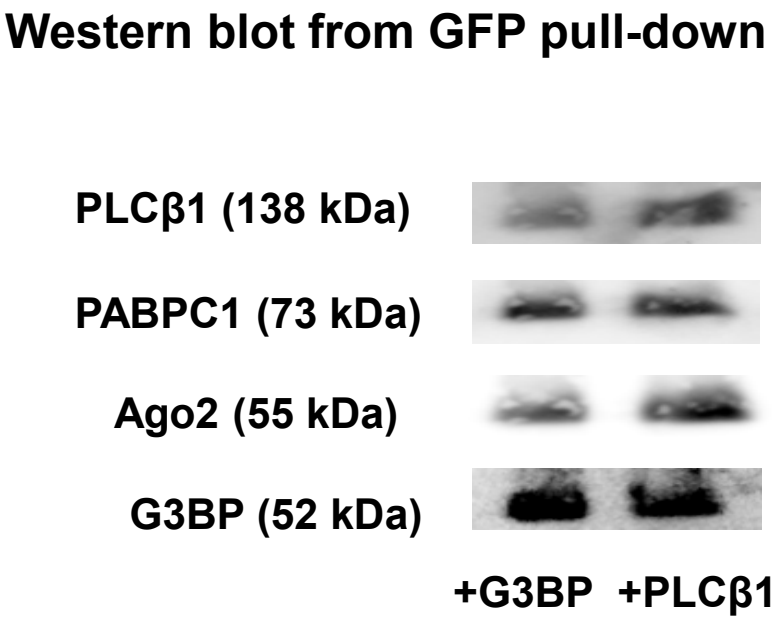
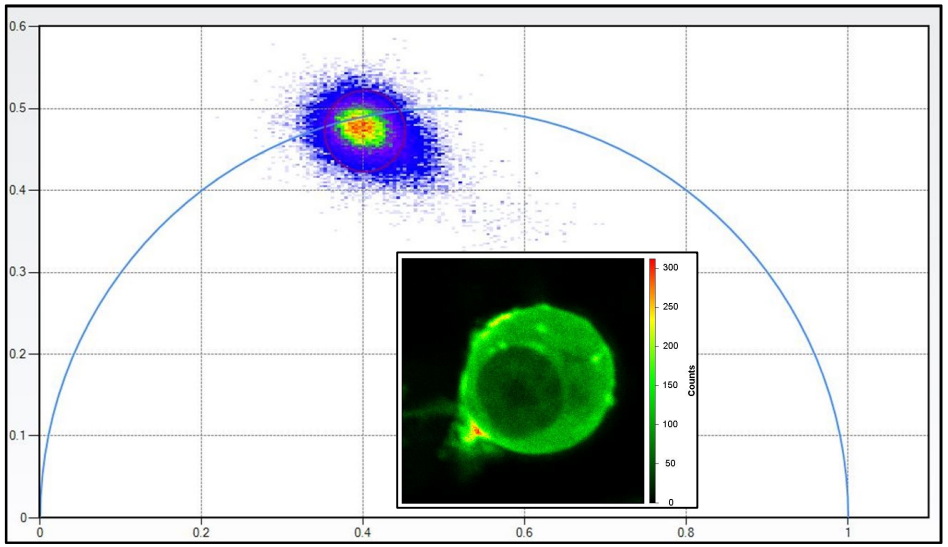


Fig. 3 ***PLCβ1 binds to Ago2 in PC12 cells***

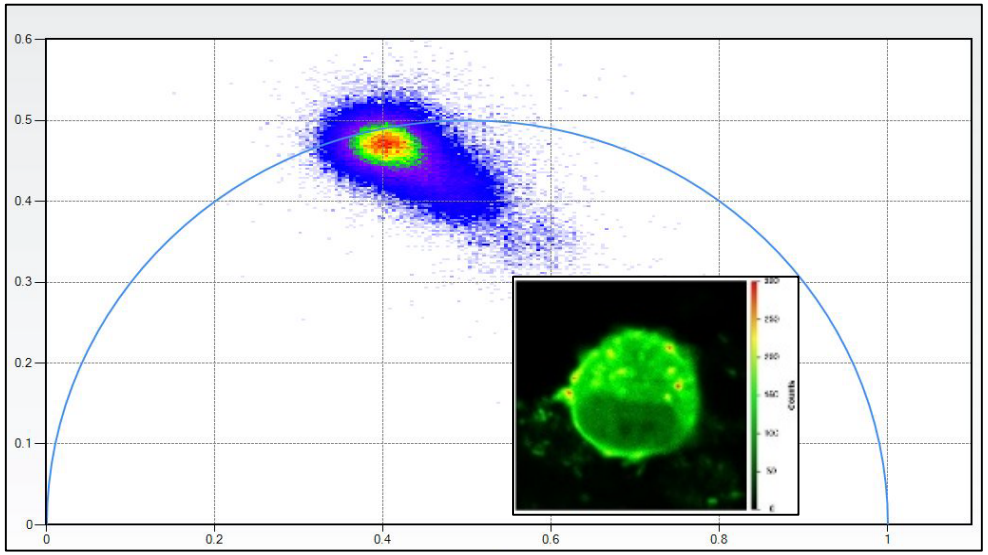
A

Phasor of eGFP-PLCβ1



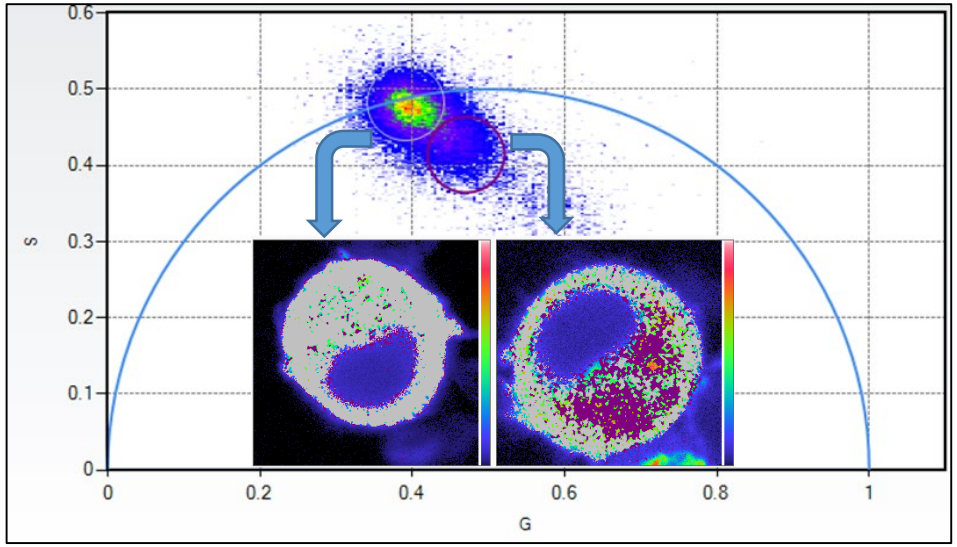
B

Phasor of eGFP-PLCβ1 + mCherry-Ago2



C

Phasor of eGFP-PLCβ1 + mCherry-Ago2

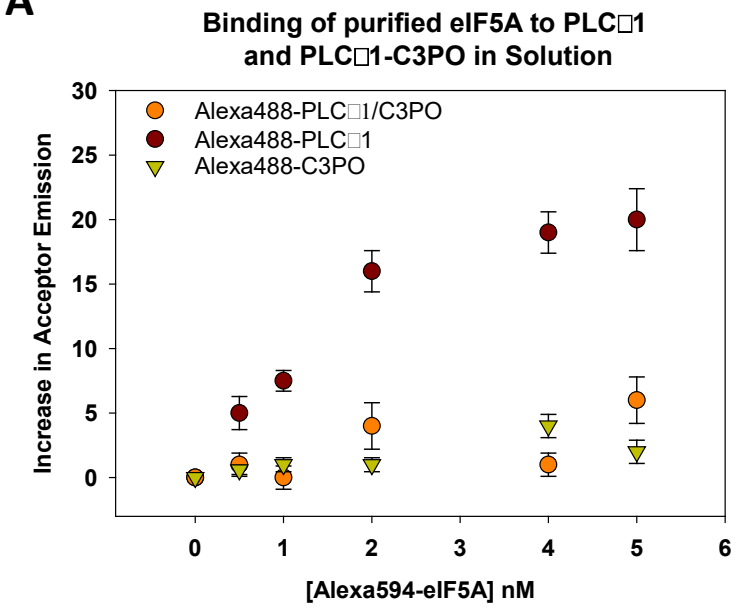


2.47 ns – no FRET

1.76 ns – FRET

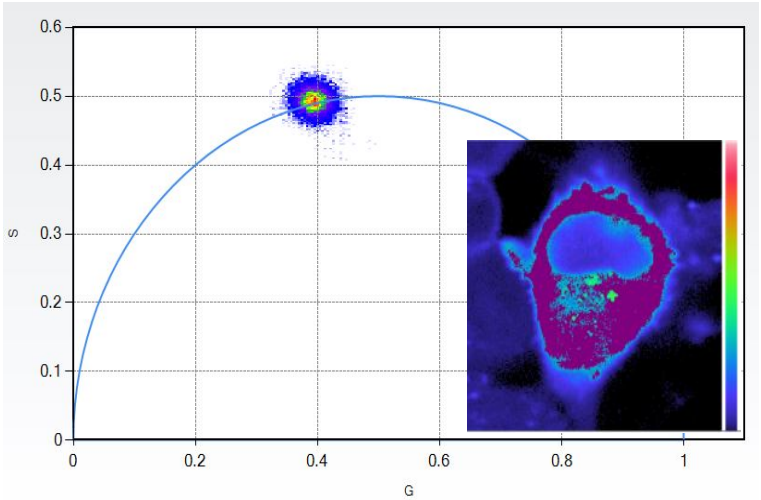
Fig. 4 *eIF5A competes with C3PO for PLCβ1 in PC12 cells*

A



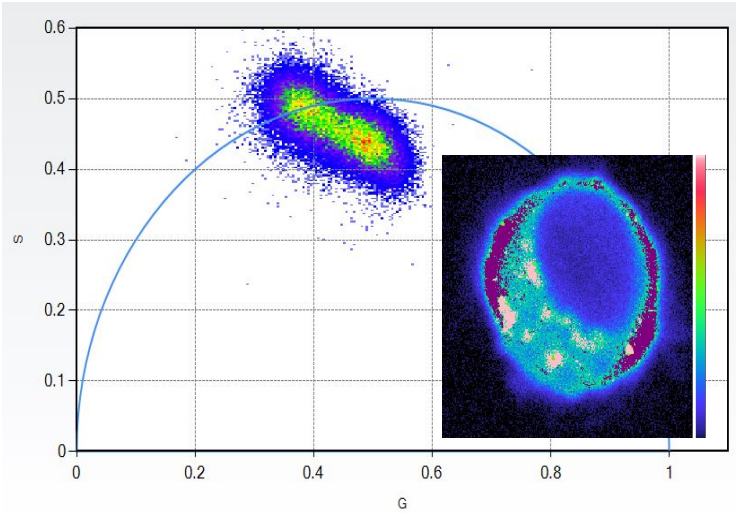
B

Phasor of eGFP-PLCβ1



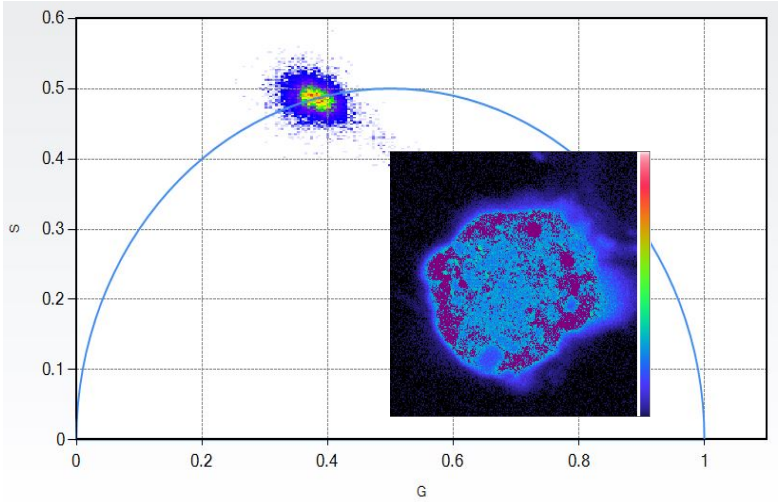
C

Phasor of eGFP-PLCβ1 + mCherry-C3PO



D

Phasor of eGFP-PLCβ1 + mCherry-C3PO
with microinjected eIF5A



Compilation of FLIM/FRET Measurements

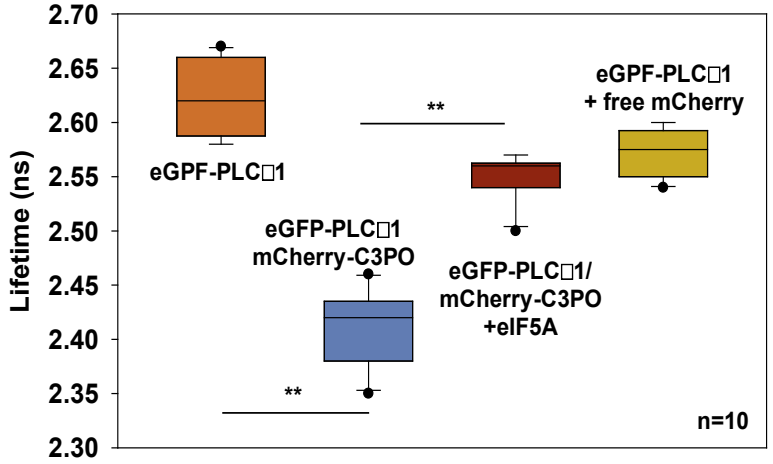
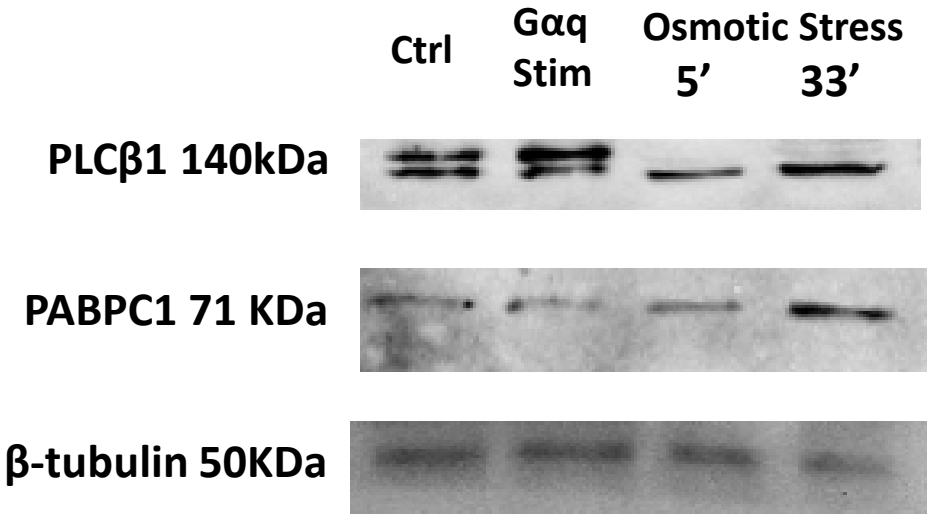
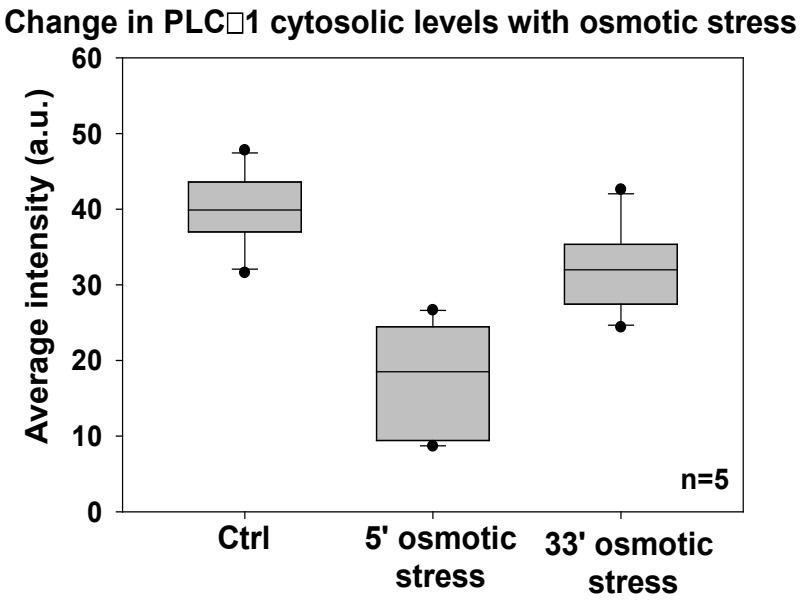


Fig. 5 ***The effect of osmotic stress on cytosolic PLCβ1 in PC12 cells***

A



B



C

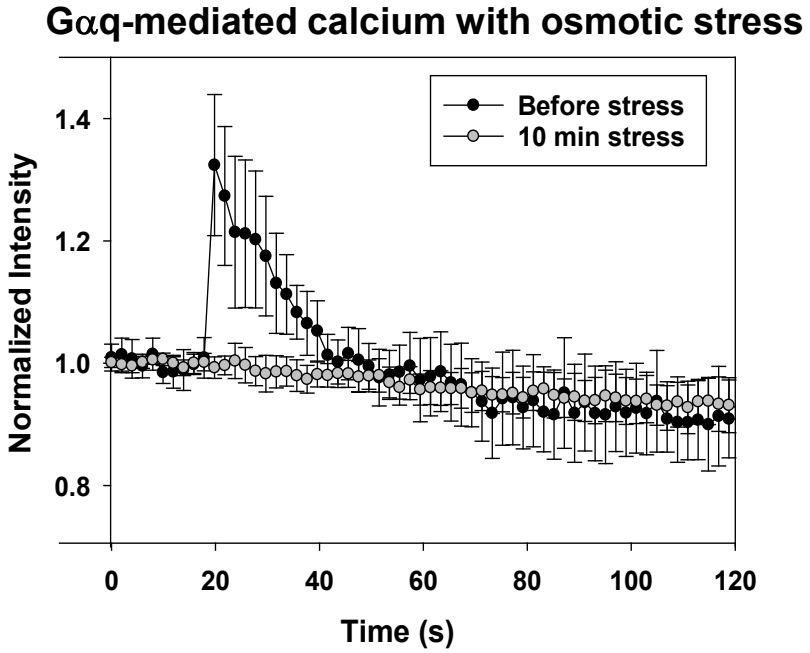
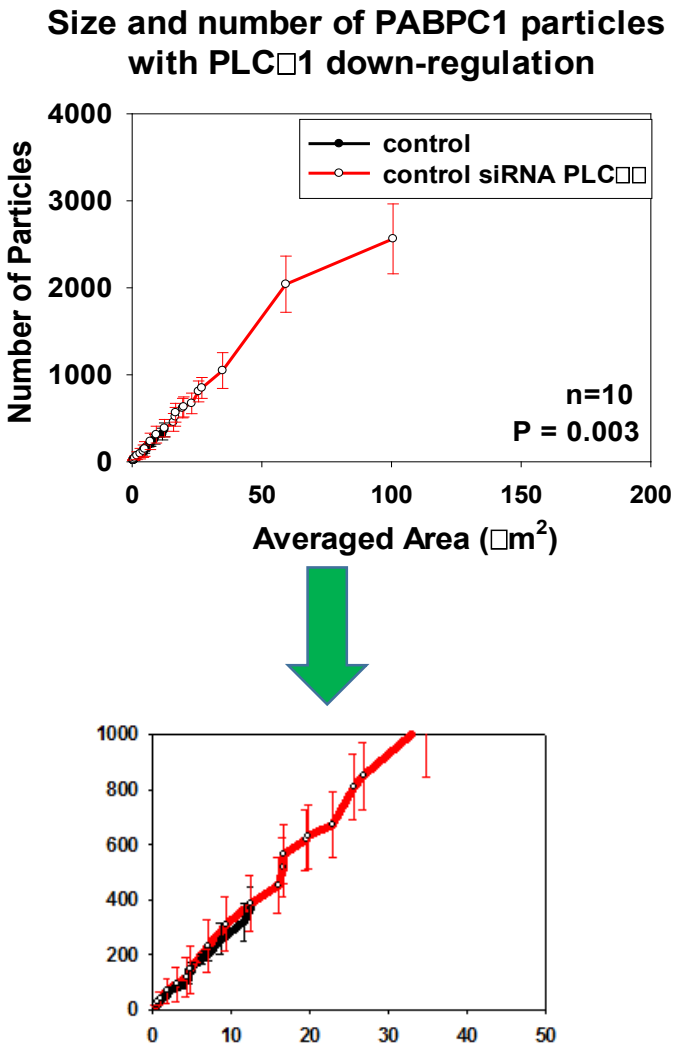
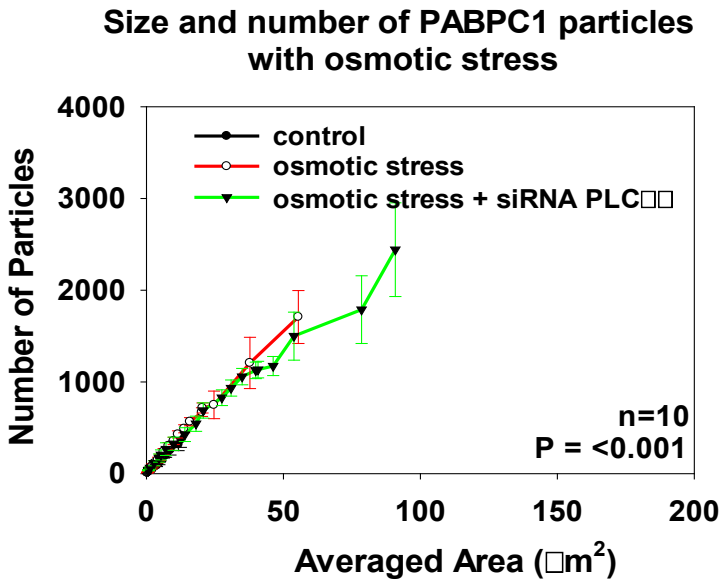


Fig.6 ***The effect of PLCβ1 on the formation of PABPC1-associated particles in PC12 cells***

A



B



C

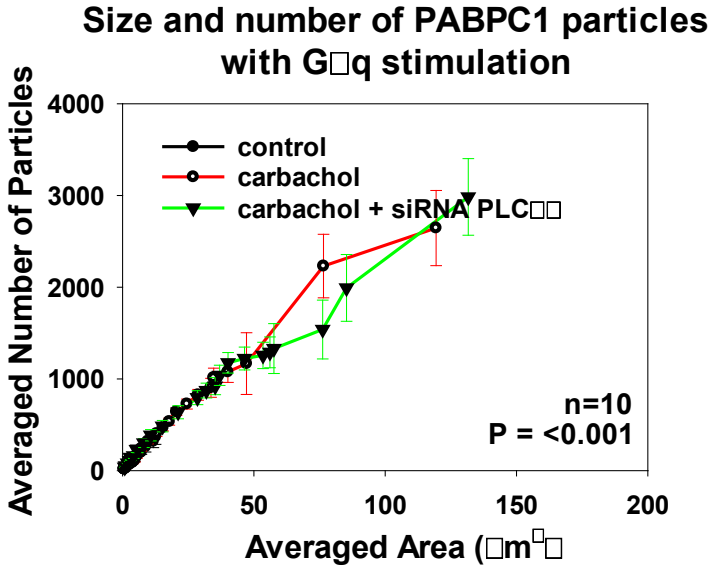


Fig.7 Formation of particles containing Ago2 and G3BP1 with loss of cytosolic PLCβ1

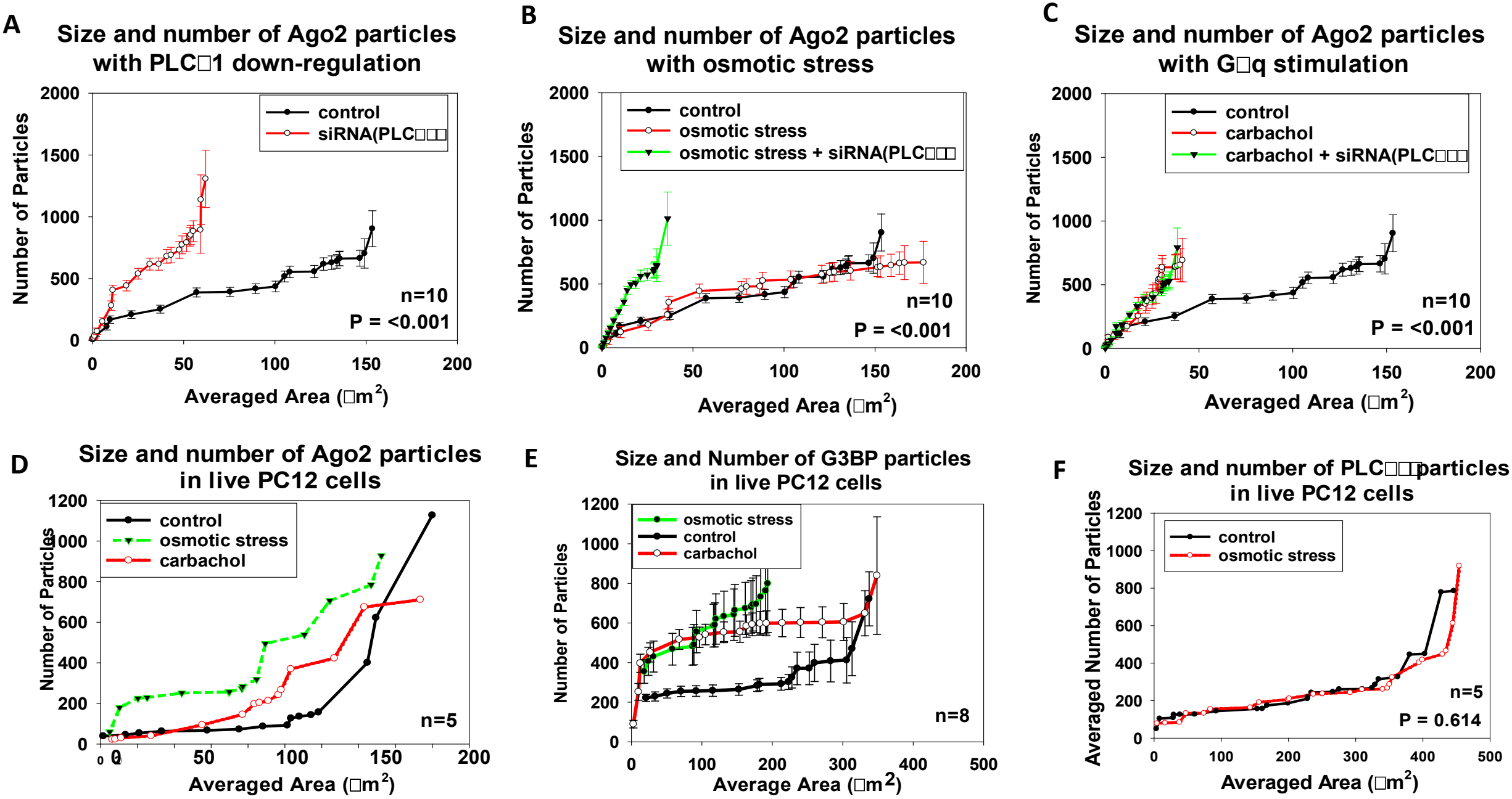
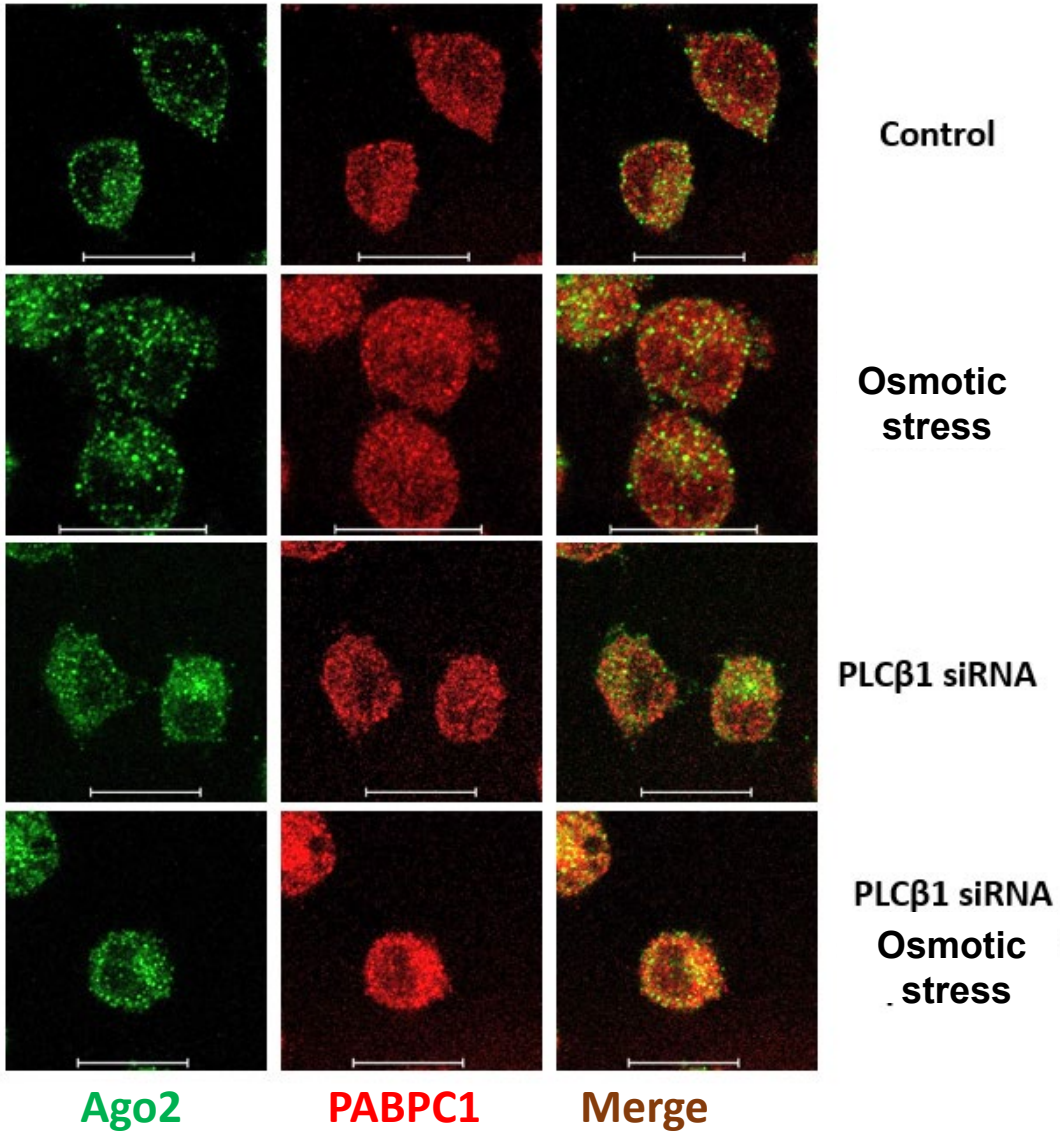


Fig 8 ***Change in colocalization of Ago2 and PABPC1 particles with osmotic stress***

A



B

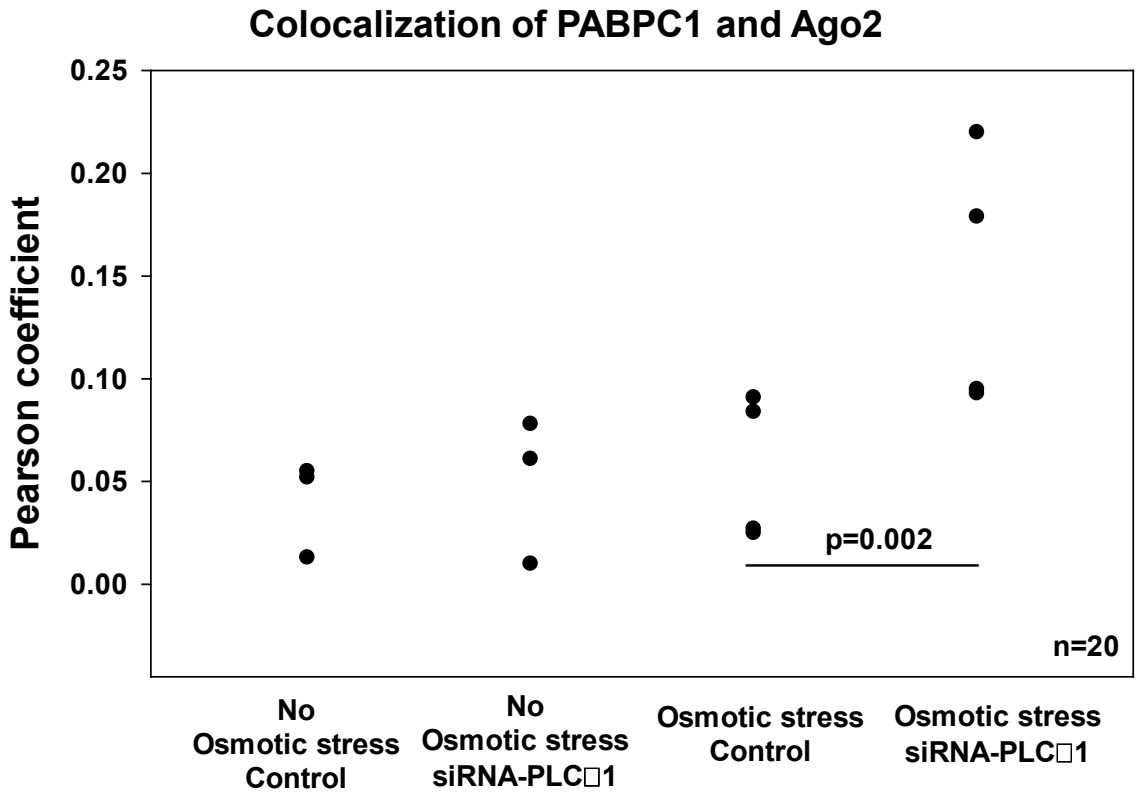


Fig. 9 *Ago2 aggregation in PC12 cells as monitored by N&B*

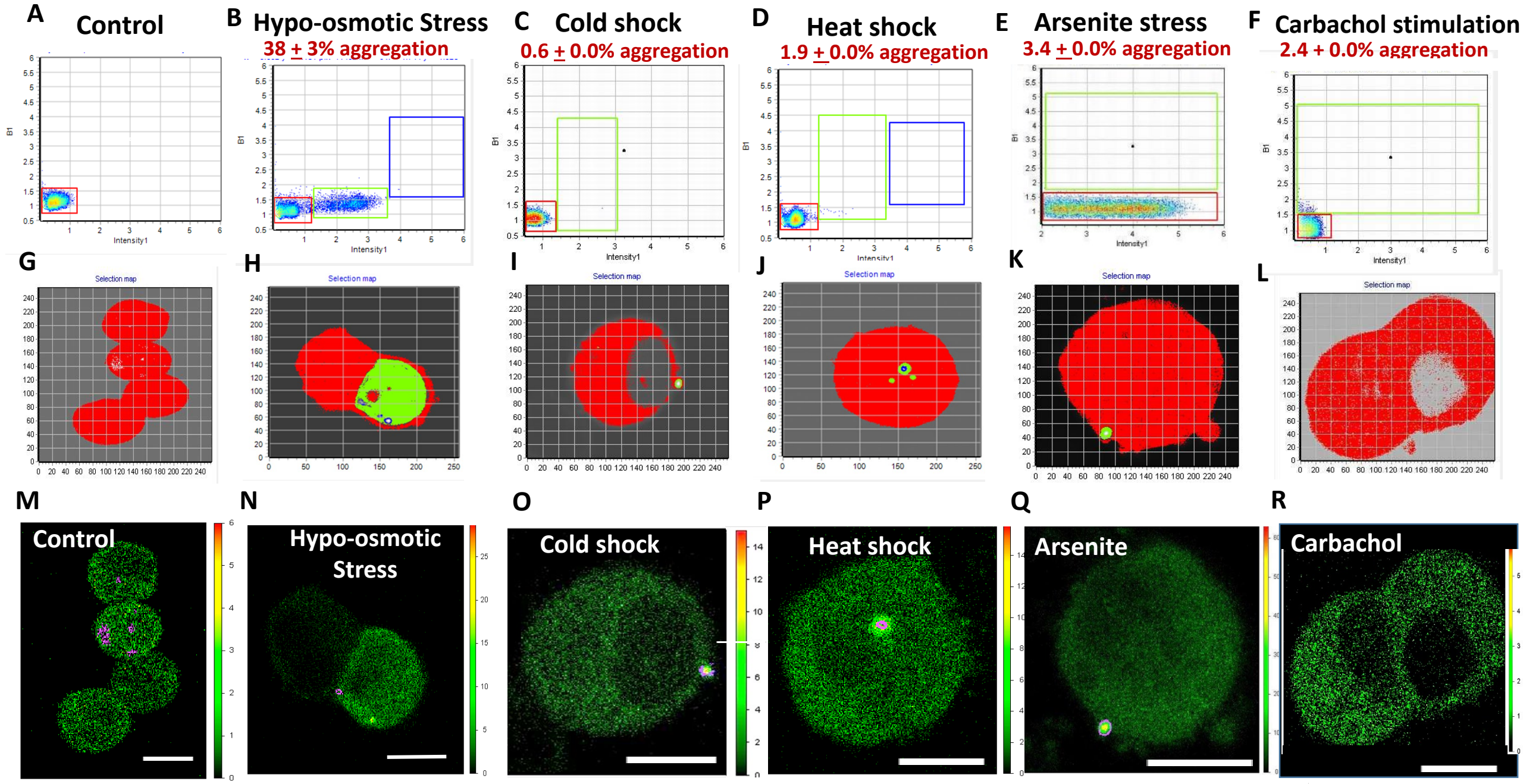


Fig. 10 ***G3BP1 aggregation in PC12 cells as monitored by N&B***

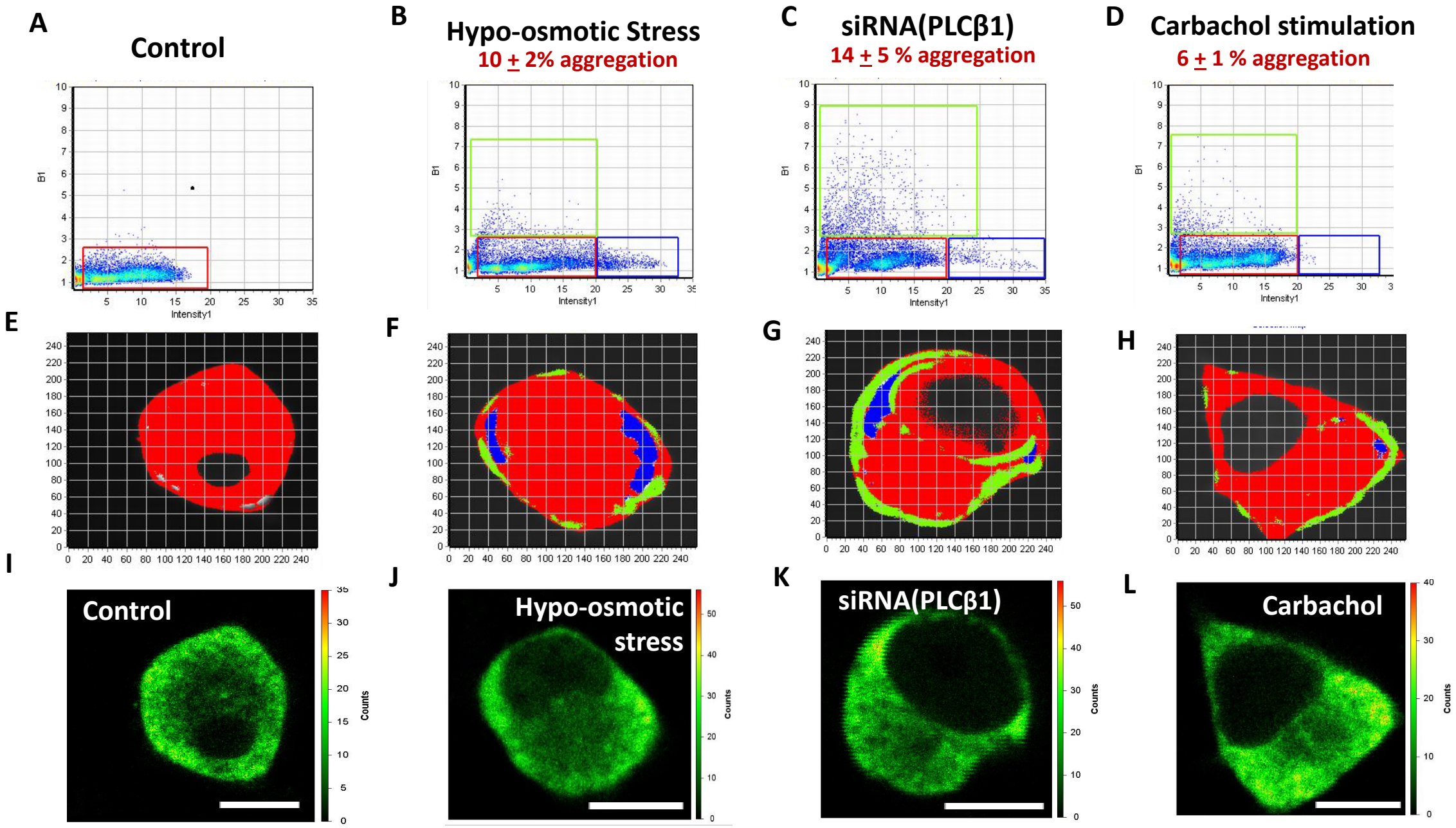


Fig. 11 ***PLCβ1 levels impacts the size of cytosolic RNAs in PC12 cells***

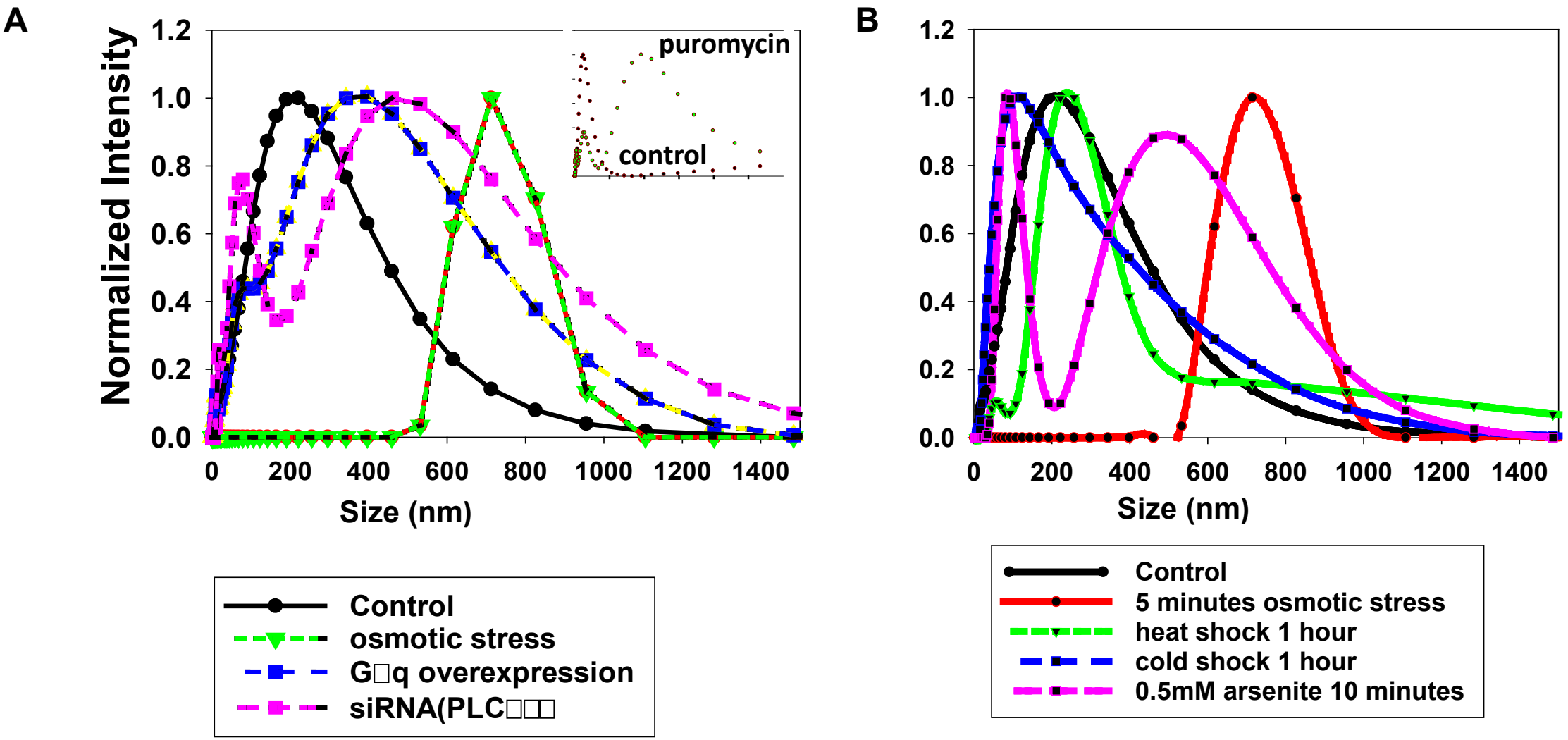


Fig. 12 *The effect of PLCβ1 on the stress granule formation in A10 cells*

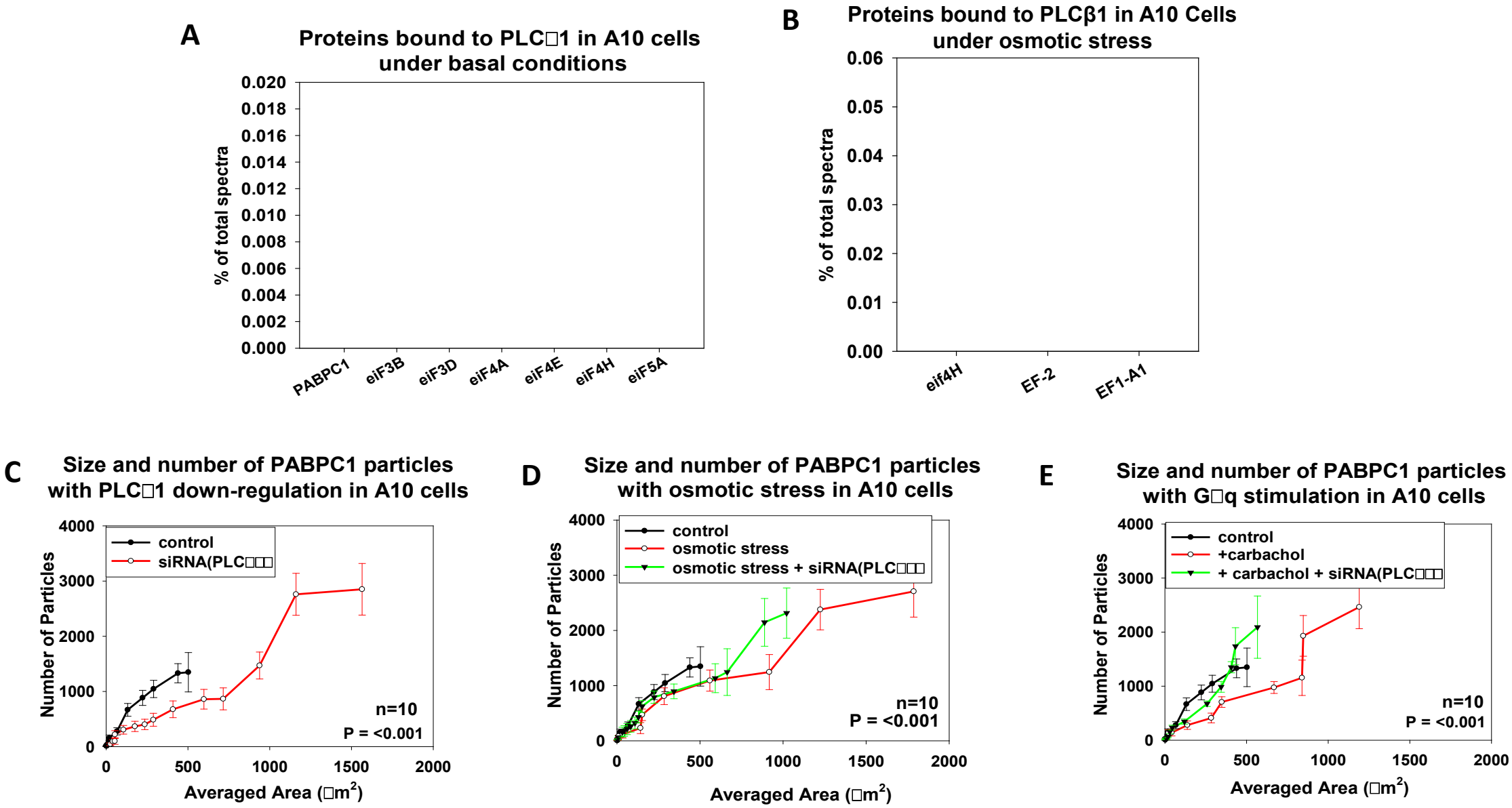


Fig. 13 ***N&B analysis of eGFP-Ago2 aggregation in WKO-3M22 cells***

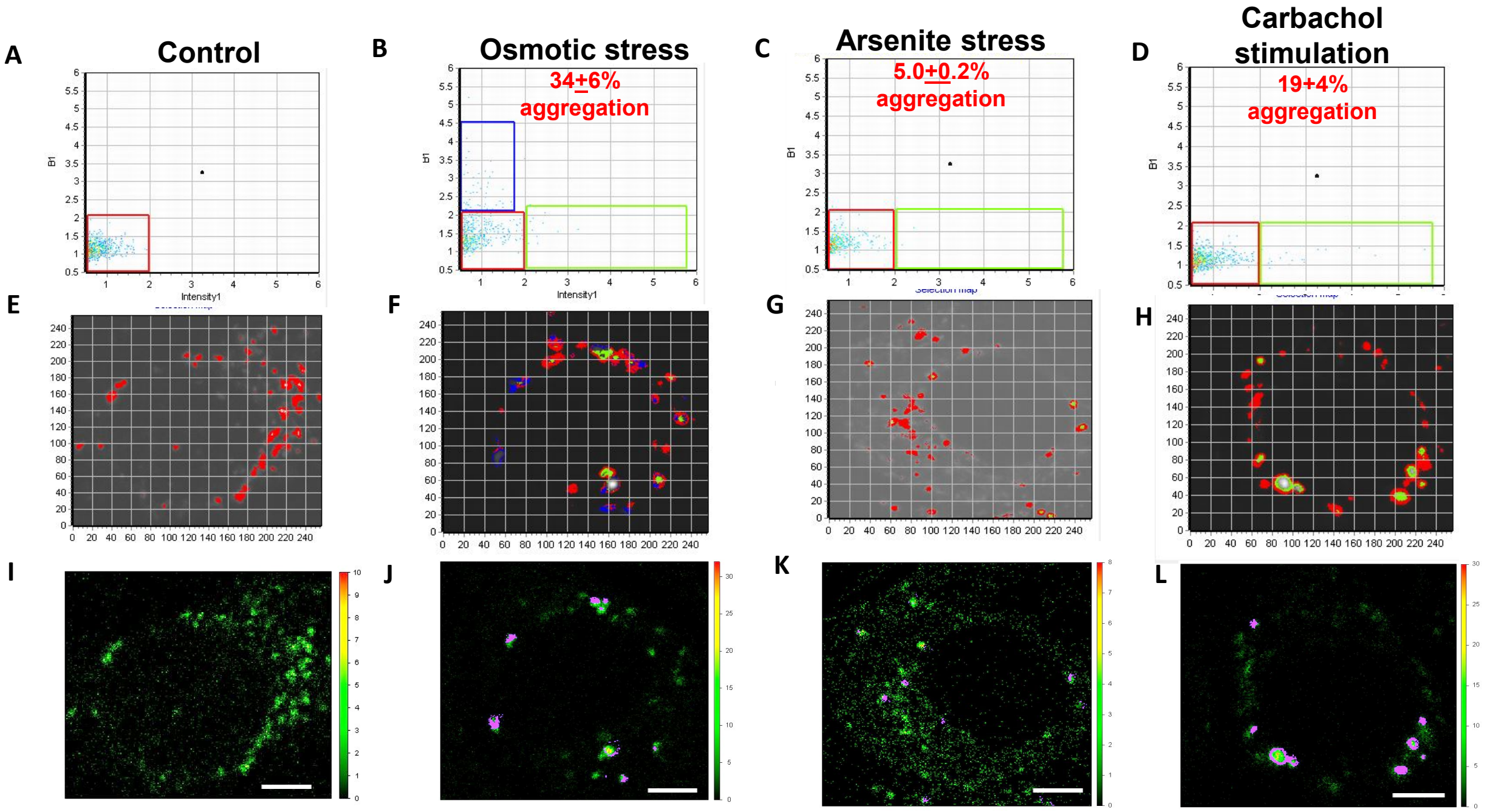


Fig. 13 ***N&B analysis of eGFP-Ago2 aggregation in WKO-3M22 cells***

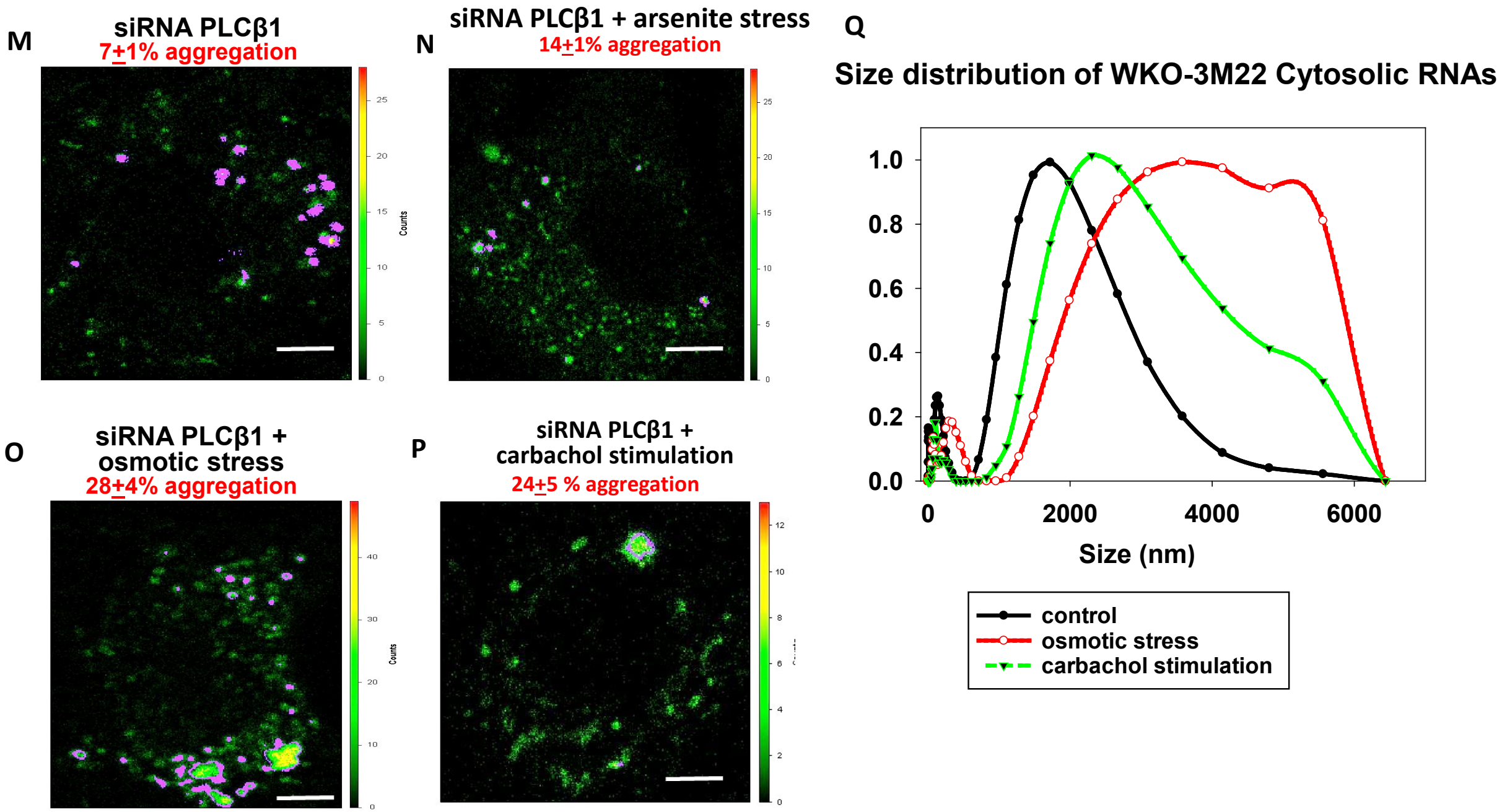


Fig. 14 ***Particle formation is inversely related to PLCβ1 levels***

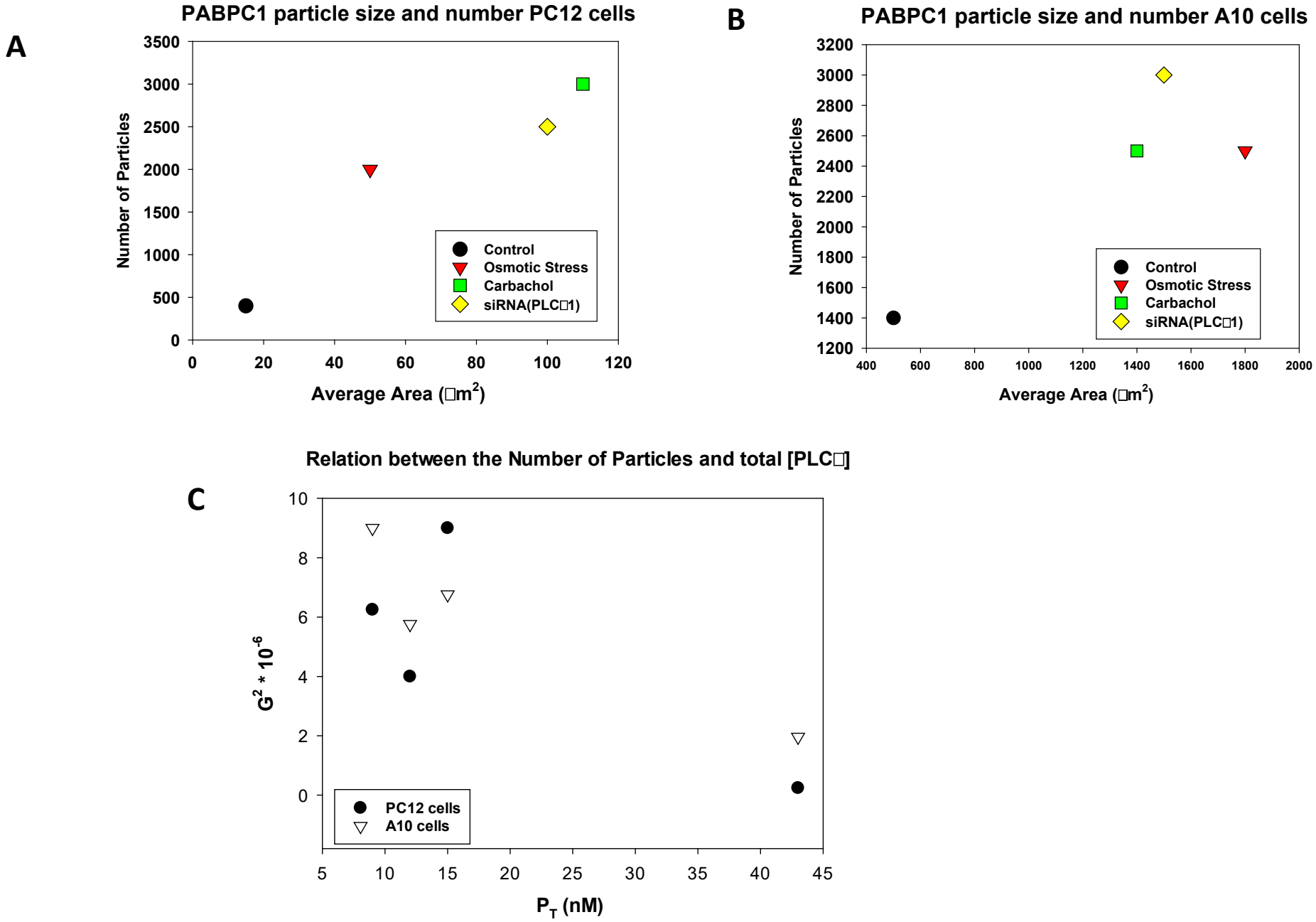
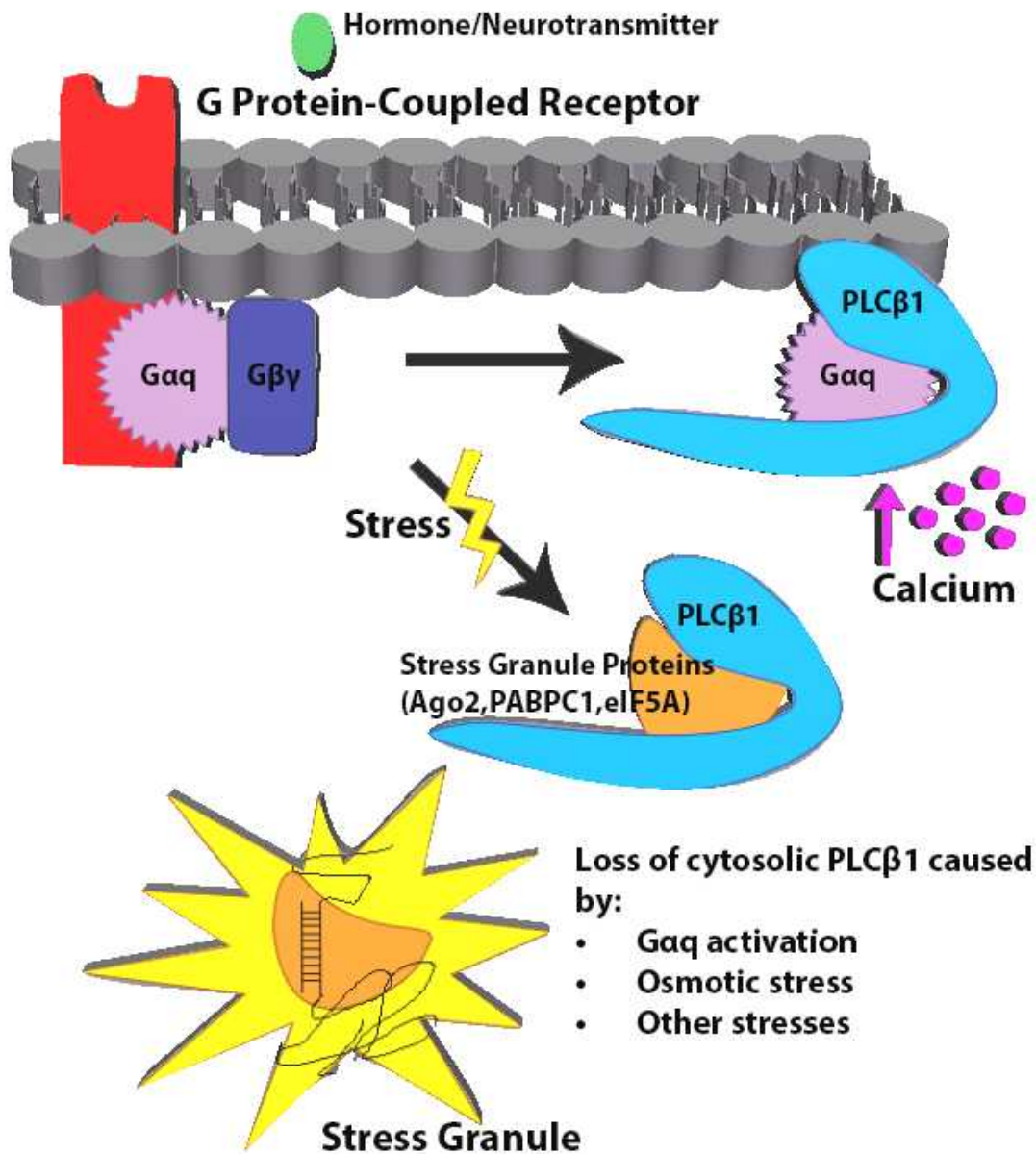


Fig. 15 ***Model of the multiple interactions of PLCβ1 in cells***



Supplemental Data	Figure	Page #
PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCb1 expression.	1A	2-38
PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCb1 expression.	1B	39-45
PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase.	1C	46-85
Ago2 associated proteins from cytosolic fractions from unsynchronized PC12 cells.	1D	86-90
Gel showing purity of eIF5A.	2A	91
Western blots showing loss of cytosolic PLCb1 with hypo-osmotic pressure and Western blots showing changes in Hsp90 levels with siRNA(PLCβ1).	2B-C	91
Peptide sequences from cross-linked and digested PLCβ1-eIF5A .	3A-B	92-93
Sizes of cytosolic RNAs in PC12 cells treated with 1mM CoCl2 8 hours.	4	94
Proteomics results of PLCβ1-associated proteins in cytosolic fractions of A10 cells at 300 mOsm (basal) and after 5 minutes at 150 mOsm.	5	95-98
FLIM/FRET results showing the lack of association between mCherry-Ago2 and eGFP-C3PO.	6	99
Co-IP Argonaute 2, PLCβ1 and PABPC1.	7A-B	100-101
Pull-down of eGFP-PLCβ1 and eGFP-G3BP1 in PC12 cells.	8	102

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

Identified Proteins (2362)	Accession Number	%of Total Sp
Cluster of sp|P69897|TBB5_RAT Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1 (sp|P69897|TBB5_RAT)	sp|P69897|TBB5_RAT [6]	0.0091
sp|P69897|TBB5_RAT Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1	sp|P69897|TBB5_RAT	0.0066
tr|Q4QQV0|Q4QQV0_RAT Protein Tubb6 OS=Rattus norvegicus GN=Tubb6 PE=1 SV=1	tr|Q4QQV0|Q4QQV0_RAT	0.0025
sp|Q4QRB4|TBB3_RAT Tubulin beta-3 chain OS=Rattus norvegicus GN=Tubb3 PE=1 SV=1	sp|Q4QRB4|TBB3_RAT	0.0039
sp|P85108|TBB2A_RAT Tubulin beta-2A chain OS=Rattus norvegicus GN=Tubb2a PE=1 SV=1	sp|P85108|TBB2A_RAT	0.0055
tr|B4F7C2|B4F7C2_RAT Protein Tubb4a OS=Rattus norvegicus GN=Tubb4a PE=1 SV=1	tr|B4F7C2|B4F7C2_RAT	0.0046
tr|G3V7C6|G3V7C6_RAT Tubulin beta-4B chain OS=Rattus norvegicus GN=Tubb4b PE=1 SV=2	tr|G3V7C6|G3V7C6_RAT	0.0058
Cluster of sp|P68136|ACTS_RAT Actin, alpha skeletal muscle OS=Rattus norvegicus GN=Acta1 PE=1 SV=1 (sp|P68136|ACTS_RAT)	sp|P68136|ACTS_RAT [4]	0.0059
sp|P68136|ACTS_RAT Actin, alpha skeletal muscle OS=Rattus norvegicus GN=Acta1 PE=1 SV=1	sp|P68136|ACTS_RAT	0.0021
sp|P60711|ACTB_RAT Actin, cytoplasmic 1 OS=Rattus norvegicus GN=Actb PE=1 SV=1	sp|P60711|ACTB_RAT	0.005
tr|V9GZ85|V9GZ85_RAT Actin, cytoplasmic 2 OS=Rattus norvegicus GN=Actg1 PE=3 SV=2	tr|V9GZ85|V9GZ85_RAT	0.0051
tr|D3ZRN3|D3ZRN3_RAT Protein Actbl2 OS=Rattus norvegicus GN=Actbl2 PE=1 SV=1	tr|D3ZRN3|D3ZRN3_RAT	0.00066
sp|P63039|CH60_RAT 60 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspd1 PE=1 SV=1	sp|P63039|CH60_RAT	0.005
sp|P10719|ATPB_RAT ATP synthase subunit beta, mitochondrial OS=Rattus norvegicus GN=Atp5b PE=1 SV=2	sp|P10719|ATPB_RAT (+1)	0.0043
Cluster of tr|A0A0G2JZ69|A0A0G2JZ69_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=1 (tr|A0A0G2JZ69|A0A0G2JZ6	tr|A0A0G2JZ69|A0A0G2JZ69_RAT [3]	0.0041
tr|A0A0G2JZ69|A0A0G2JZ69_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=1	tr|A0A0G2JZ69|A0A0G2JZ69_RAT (+1)	0.004
tr|Q6IRK8|Q6IRK8_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=1	tr|Q6IRK8|Q6IRK8_RAT	0.004
Cluster of sp|P68370|TBA1A_RAT Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1 (sp|P68370|TBA1A_RAT)	sp|P68370|TBA1A_RAT [4]	0.0037
sp|P68370|TBA1A_RAT Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1	sp|P68370|TBA1A_RAT	0.0029
sp|Q5XIF6|TBA4A_RAT Tubulin alpha-4A chain OS=Rattus norvegicus GN=Tuba4a PE=1 SV=1	sp|Q5XIF6|TBA4A_RAT	0.0027
sp|Q6AYZ1|TBA1C_RAT Tubulin alpha-1C chain OS=Rattus norvegicus GN=Tuba1c PE=1 SV=1	sp|Q6AYZ1|TBA1C_RAT (+1)	0.0026
Cluster of sp|Q10758|K2C8_RAT Keratin, type II cytoskeletal 8 OS=Rattus norvegicus GN=Krt8 PE=1 SV=3 (sp|Q10758|K2C8_RAT)	sp|Q10758|K2C8_RAT	0.0034
sp|Q10758|K2C8_RAT Keratin, type II cytoskeletal 8 OS=Rattus norvegicus GN=Krt8 PE=1 SV=3	sp|Q10758|K2C8_RAT	0.0033
sp|P21807|PERI_RAT Peripherin OS=Rattus norvegicus GN=Prph PE=1 SV=1	sp|P21807|PERI_RAT	0.0029
Cluster of sp|Q00715|H2B1_RAT Histone H2B type 1 OS=Rattus norvegicus PE=1 SV=2 (sp|Q00715|H2B1_RAT)	sp|Q00715|H2B1_RAT [2]	0.0031
sp|Q00715|H2B1_RAT Histone H2B type 1 OS=Rattus norvegicus PE=1 SV=2	sp|Q00715|H2B1_RAT	0.003
tr|D4A817|D4A817_RAT Histone H2B OS=Rattus norvegicus GN=Hist2h2be PE=3 SV=3	tr|D4A817|D4A817_RAT	0.0029
sp|P05197|EF2_RAT Elongation factor 2 OS=Rattus norvegicus GN=Eef2 PE=1 SV=4	sp|P05197|EF2_RAT	0.003
sp|P04177|TY3H_RAT Tyrosine 3-monooxygenase OS=Rattus norvegicus GN=Th PE=1 SV=3	sp|P04177|TY3H_RAT	0.0028
tr|M0R9X8|M0R9X8_RAT Cytoplasmic dynein 1 heavy chain 1 OS=Rattus norvegicus GN=Dync1h1 PE=1 SV=2	tr|M0R9X8|M0R9X8_RAT	0.0032
sp|P52873|PYC_RAT Pyruvate carboxylase, mitochondrial OS=Rattus norvegicus GN=Pc PE=1 SV=2	sp|P52873|PYC_RAT (+1)	0.003
sp|P62804|H4_RAT Histone H4 OS=Rattus norvegicus GN=Hist1h4b PE=1 SV=2	sp|P62804|H4_RAT	0.0027
sp|P48721|GRP75_RAT Stress-70 protein, mitochondrial OS=Rattus norvegicus GN=Hspa9 PE=1 SV=3	sp|P48721|GRP75_RAT (+1)	0.0025
sp|P06761|GRP78_RAT 78 kDa glucose-regulated protein OS=Rattus norvegicus GN=Hspa5 PE=1 SV=1	sp|P06761|GRP78_RAT	0.0024
sp|Q66HD0|ENPL_RAT Endoplasmin OS=Rattus norvegicus GN=Hsp90b1 PE=1 SV=2	sp|Q66HD0|ENPL_RAT (+1)	0.0022
sp|P11598|PDIA3_RAT Protein disulfide-isomerase A3 OS=Rattus norvegicus GN=Pdia3 PE=1 SV=2	sp|P11598|PDIA3_RAT (+1)	0.0022
sp|P61980|HNRPK_RAT Heterogeneous nuclear ribonucleoprotein K OS=Rattus norvegicus GN=Hnrnpk PE=1 SV=1	sp|P61980|HNRPK_RAT (+1)	0.0018
Cluster of tr|A0A0G2K8W9|A0A0G2K8W9_RAT Protein Sptbn1 OS=Rattus norvegicus GN=Sptbn1 PE=1 SV=1 (tr|A0A0G2K8W9|A0A0G2K8W9_RAT)	tr|A0A0G2K8W9|A0A0G2K8W9_RAT [4]	0.0021
tr|A0A0G2K8W9|A0A0G2K8W9_RAT Protein Sptbn1 OS=Rattus norvegicus GN=Sptbn1 PE=1 SV=1	tr|A0A0G2K8W9|A0A0G2K8W9_RAT (+1)	0.0021
sp|Q9QWN8|SPTN2_RAT Spectrin beta chain, non-erythrocytic 2 OS=Rattus norvegicus GN=Sptbn2 PE=1 SV=2	sp|Q9QWN8|SPTN2_RAT (+1)	0.00017
sp|Q5BJY9|K1C18_RAT Keratin, type I cytoskeletal 18 OS=Rattus norvegicus GN=Krt18 PE=1 SV=3	sp|Q5BJY9|K1C18_RAT	0.0023
sp|Q9Z1P2|ACTN1_RAT Alpha-actinin-1 OS=Rattus norvegicus GN=Actn1 PE=1 SV=1	sp|Q9Z1P2|ACTN1_RAT (+1)	0.0028
tr|G3V8L3|G3V8L3_RAT Lamin A, isoform CRA_b OS=Rattus norvegicus GN=Lmna PE=1 SV=1	tr|G3V8L3|G3V8L3_RAT	0.0019
tr|G3V6P7|G3V6P7_RAT Myosin, heavy polypeptide 9, non-muscle OS=Rattus norvegicus GN=Myh9 PE=1 SV=1	tr|G3V6P7|G3V6P7_RAT	0.0024
Cluster of sp|P63018|HSP7C_RAT Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1 (sp|P63018|HSP7C_RAT)	sp|P63018|HSP7C_RAT [2]	0.0017
sp|P63018|HSP7C_RAT Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1	sp|P63018|HSP7C_RAT	0.0017
sp|P0DMW0|HS71A_RAT Heat shock 70 kDa protein 1A OS=Rattus norvegicus GN=Hspa1a PE=2 SV=1	sp|P0DMW0|HS71A_RAT	0.00017
sp|P15999|ATPA_RAT ATP synthase subunit alpha, mitochondrial OS=Rattus norvegicus GN=Atp5a1 PE=1 SV=2	sp|P15999|ATPA_RAT	0.0019
sp|P46462|TERA_RAT Transitional endoplasmic reticulum ATPase OS=Rattus norvegicus GN=Vcp PE=1 SV=3	sp|P46462|TERA_RAT	0.0019
sp|P62630|EF1A1_RAT Elongation factor 1-alpha 1 OS=Rattus norvegicus GN=Eef1a1 PE=2 SV=1	sp|P62630|EF1A1_RAT	0.0024
sp|Q5XIM9|TCPB_RAT T-complex protein 1 subunit beta OS=Rattus norvegicus GN=Cct2 PE=1 SV=3	sp|Q5XIM9|TCPB_RAT	0.0018
sp|Q9ER34|ACON_RAT Aconitate hydratase, mitochondrial OS=Rattus norvegicus GN=Aco2 PE=1 SV=2	sp|Q9ER34|ACON_RAT	0.0018
tr|G3V9Y1|G3V9Y1_RAT Myosin, heavy polypeptide 10, non-muscle, isoform CRA_b OS=Rattus norvegicus GN=Myh10 PE=1 SV=1	tr|G3V9Y1|G3V9Y1_RAT	0.0023
Cluster of sp|P11980-2|KPYM_RAT Isoform M2 of Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm (sp|P11980-2|KPYM_RAT)	sp|P11980-2|KPYM_RAT	0.0018
sp|P11980-2|KPYM_RAT Isoform M2 of Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm	sp|P11980-2|KPYM_RAT	0.0018
Cluster of sp|Q6URK4-2|ROA3_RAT Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3 OS=Rattus norvegicus GN=Hnrnpa3 (sp|Q6URK4-2|ROA3_RAT)	sp|Q6URK4-2|ROA3_RAT [2]	0.0012
sp|Q6URK4-2|ROA3_RAT Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3 OS=Rattus norvegicus GN=Hnrnpa3	sp|Q6URK4-2|ROA3_RAT	0.0011
sp|Q6URK4|ROA3_RAT Heterogeneous nuclear ribonucleoprotein A3 OS=Rattus norvegicus GN=Hnrnpa3 PE=1 SV=1	sp|Q6URK4|ROA3_RAT	0.00097
sp|P10111|PPIA_RAT Peptidyl-prolyl cis-trans isomerase A OS=Rattus norvegicus GN=Ppia PE=1 SV=2	sp|P10111|PPIA_RAT	0.0015
sp|P18418|CALR_RAT Calreticulin OS=Rattus norvegicus GN=Calr PE=1 SV=1	sp|P18418|CALR_RAT	0.0015
sp|O35303-2|DNM1L_RAT Isoform 2 of Dynamin-1-like protein OS=Rattus norvegicus GN=Dnm1l	sp|O35303-2|DNM1L_RAT	0.0015
sp|P13084|NPM_RAT Nucleophosmin OS=Rattus norvegicus GN=Npm1 PE=1 SV=1	sp|P13084|NPM_RAT	0.0013
sp|P11442|CLH1_RAT Clathrin heavy chain 1 OS=Rattus norvegicus GN=Cltc PE=1 SV=3	sp|P11442|CLH1_RAT (+1)	0.0016
sp|P35565|CALX_RAT Calnexin OS=Rattus norvegicus GN=Canx PE=1 SV=1	sp|P35565|CALX_RAT	0.0011
tr|F2Z3Q8|F2Z3Q8_RAT Importin subunit beta-1 OS=Rattus norvegicus GN=Kpnb1 PE=1 SV=1	tr|F2Z3Q8|F2Z3Q8_RAT	0.0013
sp|Q07936|ANXA2_RAT Annexin A2 OS=Rattus norvegicus GN=Anxa2 PE=1 SV=2	sp|Q07936|ANXA2_RAT	0.0015
tr|A0A0G2JSR7|A0A0G2JSR7_RAT Matrin-3 OS=Rattus norvegicus GN=Matr3 PE=1 SV=1	tr|A0A0G2JSR7|A0A0G2JSR7_RAT	0.0014

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

Cluster of tr|Q6PDW1|Q6PDW1_RAT 40S ribosomal protein S12 OS=Rattus norvegicus GN=Rps12 PE=1 SV=1 (tr|Q6PDW1|Q6PDW1_RAT)	tr|Q6PDW1|Q6PDW1_RAT [2]	0.0013
tr|Q6PDW1|Q6PDW1_RAT 40S ribosomal protein S12 OS=Rattus norvegicus GN=Rps12 PE=1 SV=1	tr|Q6PDW1|Q6PDW1_RAT	0.001
tr|D3ZEB8|D3ZEB8_RAT 40S ribosomal protein S12 OS=Rattus norvegicus PE=3 SV=1	tr|D3ZEB8|D3ZEB8_RAT	0.00028
sp|P04785|PDIA1_RAT Protein disulfide-isomerase OS=Rattus norvegicus GN=P4hb PE=1 SV=2	sp|P04785|PDIA1_RAT	0.0013
Cluster of sp|P04797|G3P_RAT Glyceraldehyde-3-phosphate dehydrogenase OS=Rattus norvegicus GN=Gapdh PE=1 SV=3 (sp|P04797|G3P_RAT)	sp|P04797|G3P_RAT	0.0014
sp|P04797|G3P_RAT Glyceraldehyde-3-phosphate dehydrogenase OS=Rattus norvegicus GN=Gapdh PE=1 SV=3	sp|P04797|G3P_RAT	0.0014
sp|P14408-2|FUMH_RAT Isoform Cytoplasmic of Fumarate hydratase, mitochondrial OS=Rattus norvegicus GN=Fh	sp|P14408-2|FUMH_RAT (+1)	0.0012
sp|Q63617|HYOU1_RAT Hypoxia up-regulated protein 1 OS=Rattus norvegicus GN=Hyou1 PE=1 SV=1	sp|Q63617|HYOU1_RAT (+1)	0.0012
tr|F1LM33|F1LM33_RAT Leucine-rich PPR motif-containing protein, mitochondrial OS=Rattus norvegicus GN=Lrpprc PE=1 SV=2	tr|F1LM33|F1LM33_RAT	0.0016
tr|A0A0G2JU96|A0A0G2JU96_RAT Protein Ahnak OS=Rattus norvegicus GN=Ahnak PE=1 SV=1	tr|A0A0G2JU96|A0A0G2JU96_RAT (+1)	0.0015
tr|G3V826|G3V826_RAT Transketolase OS=Rattus norvegicus GN=Tkt PE=1 SV=1	tr|G3V826|G3V826_RAT	0.0013
sp|Q6P502|TCPG_RAT T-complex protein 1 subunit gamma OS=Rattus norvegicus GN=Cct3 PE=1 SV=1	sp|Q6P502|TCPG_RAT	0.0011
tr|F1LRI5|F1LRI5_RAT Protein Gcn1l1 OS=Rattus norvegicus GN=Gcn1l1 PE=1 SV=3	tr|F1LRI5|F1LRI5_RAT	0.0015
tr|F7FF45|F7FF45_RAT Protein Numa1 OS=Rattus norvegicus GN=Numa1 PE=1 SV=2	tr|F7FF45|F7FF45_RAT	0.0013
tr|Q6P6T9|Q6P6T9_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna2 PE=2 SV=1	tr|Q6P6T9|Q6P6T9_RAT	0.0011
tr|F7F9U6|F7F9U6_RAT Plectin OS=Rattus norvegicus GN=Plec PE=1 SV=1	tr|F7F9U6|F7F9U6_RAT (+6)	0.0017
sp|P97536|CAND1_RAT Cullin-associated NEDD8-dissociated protein 1 OS=Rattus norvegicus GN=Cand1 PE=1 SV=1	sp|P97536|CAND1_RAT	0.0011
tr|G3V852|G3V852_RAT Protein Tln1 OS=Rattus norvegicus GN=Tln1 PE=1 SV=1	tr|G3V852|G3V852_RAT	0.0013
sp|P04256|ROA1_RAT Heterogeneous nuclear ribonucleoprotein A1 OS=Rattus norvegicus GN=Hnrnpa1 PE=1 SV=3	sp|P04256|ROA1_RAT (+2)	0.0011
Cluster of tr|A0A0G2JTG7|A0A0G2JTG7_RAT Heterogeneous nuclear ribonucleoprotein H OS=Rattus norvegicus GN=Hnrnph1 PE=1 SV=1 (tr|A0A0G2JTG7|A0A	tr|A0A0G2JTG7|A0A0G2JTG7_RAT [2]	0.0011
tr|A0A0G2JTG7|A0A0G2JTG7_RAT Heterogeneous nuclear ribonucleoprotein H OS=Rattus norvegicus GN=Hnrnph1 PE=1 SV=1	tr|A0A0G2JTG7|A0A0G2JTG7_RAT	0.00094
sp|Q6AY09|HNRH2_RAT Heterogeneous nuclear ribonucleoprotein H2 OS=Rattus norvegicus GN=Hnrnph2 PE=1 SV=1	sp|Q6AY09|HNRH2_RAT	0.00063
Cluster of tr|F1M3D3|F1M3D3_RAT Heterogeneous nuclear ribonucleoprotein M OS=Rattus norvegicus GN=Hnrnpm PE=1 SV=1 (tr|F1M3D3|F1M3D3_RAT)	tr|F1M3D3|F1M3D3_RAT	0.0011
tr|F1M3D3|F1M3D3_RAT Heterogeneous nuclear ribonucleoprotein M OS=Rattus norvegicus GN=Hnrnpm PE=1 SV=1	tr|F1M3D3|F1M3D3_RAT	0.0011
sp|Q6P6V0|G6PI_RAT Glucose-6-phosphate isomerase OS=Rattus norvegicus GN=Gpi PE=1 SV=1	sp|Q6P6V0|G6PI_RAT	0.0011
sp|P34058|HS90B_RAT Heat shock protein HSP 90-beta OS=Rattus norvegicus GN=Hsp90ab1 PE=1 SV=4	sp|P34058|HS90B_RAT	0.0017
sp|P56574|IDHP_RAT Isocitrate dehydrogenase [NADP], mitochondrial OS=Rattus norvegicus GN=Idh2 PE=1 SV=2	sp|P56574|IDHP_RAT	0.0011
Cluster of tr|Q5XI34|Q5XI34_RAT Protein Ppp2r1a OS=Rattus norvegicus GN=Ppp2r1a PE=1 SV=1 (tr|Q5XI34|Q5XI34_RAT)	tr|Q5XI34|Q5XI34_RAT [2]	0.001
tr|Q5XI34|Q5XI34_RAT Protein Ppp2r1a OS=Rattus norvegicus GN=Ppp2r1a PE=1 SV=1	tr|Q5XI34|Q5XI34_RAT	0.0009
sp|Q4QQT4|2AAB_RAT Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform OS=Rattus norvegicus GN=Ppp2r1b PE=2 SV=1	sp|Q4QQT4|2AAB_RAT	0.00038
sp|F1MA98|TPR_RAT Nucleoprotein TPR OS=Rattus norvegicus GN=Tpr PE=1 SV=1	sp|F1MA98|TPR_RAT	0.001
tr|D4ACB8|D4ACB8_RAT Chaperonin subunit 8 (Theta) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Cct8 PE=1 SV=1	tr|D4ACB8|D4ACB8_RAT	0.001
tr|Q6IMZ3|Q6IMZ3_RAT Annexin OS=Rattus norvegicus GN=Anxa6 PE=1 SV=1	tr|Q6IMZ3|Q6IMZ3_RAT	0.0011
sp|Q9EPH8|PABP1_RAT Polyadenylate-binding protein 1 OS=Rattus norvegicus GN=Pabpc1 PE=1 SV=1	sp|Q9EPH8|PABP1_RAT	0.0011
Cluster of sp|Q9QXQ0|ACTN4_RAT Alpha-actinin-4 OS=Rattus norvegicus GN=Actn4 PE=1 SV=2 (sp|Q9QXQ0|ACTN4_RAT)	sp|Q9QXQ0|ACTN4_RAT [2]	0.0018
sp|Q9QXQ0|ACTN4_RAT Alpha-actinin-4 OS=Rattus norvegicus GN=Actn4 PE=1 SV=2	sp|Q9QXQ0|ACTN4_RAT (+1)	0.0018
sp|P00507|AATM_RAT Aspartate aminotransferase, mitochondrial OS=Rattus norvegicus GN=Got2 PE=1 SV=2	sp|P00507|AATM_RAT	0.00097
Cluster of sp|P61107|RAB14_RAT Ras-related protein Rab-14 OS=Rattus norvegicus GN=Rab14 PE=1 SV=3 (sp|P61107|RAB14_RAT)	sp|P61107|RAB14_RAT [11]	0.00097
sp|P61107|RAB14_RAT Ras-related protein Rab-14 OS=Rattus norvegicus GN=Rab14 PE=1 SV=3	sp|P61107|RAB14_RAT (+1)	0.00028
sp|Q6NYB7|RAB1A_RAT Ras-related protein Rab-1A OS=Rattus norvegicus GN=Rab1A PE=1 SV=3	sp|Q6NYB7|RAB1A_RAT	0.00038
sp|P10536|RAB1B_RAT Ras-related protein Rab-1B OS=Rattus norvegicus GN=Rab1b PE=1 SV=1	sp|P10536|RAB1B_RAT (+1)	0.00038
sp|P62824|RAB3C_RAT Ras-related protein Rab-3C OS=Rattus norvegicus GN=Rab3c PE=1 SV=1	sp|P62824|RAB3C_RAT	0.00021
tr|Q5RKJ9|Q5RKJ9_RAT RAB10, member RAS oncogene family OS=Rattus norvegicus GN=Rab10 PE=1 SV=1	tr|Q5RKJ9|Q5RKJ9_RAT	0.00017
tr|D4ADS8|D4ADS8_RAT Ras-related protein Rab-4A OS=Rattus norvegicus GN=Rab4a PE=1 SV=2	tr|D4ADS8|D4ADS8_RAT	0.0001
tr|F8V328|F8V328_RAT RAB8 OS=Rattus norvegicus GN=Rab8a PE=1 SV=1	tr|F8V328|F8V328_RAT	0.00017
sp|P63012|RAB3A_RAT Ras-related protein Rab-3A OS=Rattus norvegicus GN=Rab3a PE=1 SV=1	sp|P63012|RAB3A_RAT	0.00007
sp|Q63942|RAB3D_RAT GTP-binding protein Rab-3D OS=Rattus norvegicus GN=Rab3d PE=1 SV=2	sp|Q63942|RAB3D_RAT	0.00007
Cluster of sp|P52925|HMGB2_RAT High mobility group protein B2 OS=Rattus norvegicus GN=Hmgb2 PE=2 SV=2 (sp|P52925|HMGB2_RAT)	sp|P52925|HMGB2_RAT [2]	0.001
sp|P52925|HMGB2_RAT High mobility group protein B2 OS=Rattus norvegicus GN=Hmgb2 PE=2 SV=2	sp|P52925|HMGB2_RAT	0.00097
tr|D3ZN59|D3ZN59_RAT Protein RGD1559962 OS=Rattus norvegicus GN=RGD1559962 PE=4 SV=2	tr|D3ZN59|D3ZN59_RAT	0.00073
Cluster of tr|Q5U3Z7|Q5U3Z7_RAT Serine hydroxymethyltransferase OS=Rattus norvegicus GN=Shmt2 PE=1 SV=1 (tr|Q5U3Z7|Q5U3Z7_RAT)	tr|Q5U3Z7|Q5U3Z7_RAT	0.00097
tr|Q5U3Z7|Q5U3Z7_RAT Serine hydroxymethyltransferase OS=Rattus norvegicus GN=Shmt2 PE=1 SV=1	tr|Q5U3Z7|Q5U3Z7_RAT	0.00097
tr|Q6P3V9|Q6P3V9_RAT 60S ribosomal protein L4 OS=Rattus norvegicus GN=Rpl4 PE=1 SV=1	tr|Q6P3V9|Q6P3V9_RAT	0.001
sp|P13383|NUCL_RAT Nucleolin OS=Rattus norvegicus GN=Ncl PE=1 SV=3	sp|P13383|NUCL_RAT (+1)	0.001
sp|P38983|RSSA_RAT 40S ribosomal protein SA OS=Rattus norvegicus GN=Rpsa PE=1 SV=3	sp|P38983|RSSA_RAT	0.00094
sp|Q1JU68|EIF3A_RAT Eukaryotic translation initiation factor 3 subunit A OS=Rattus norvegicus GN=Eif3a PE=2 SV=2	sp|Q1JU68|EIF3A_RAT	0.0011
tr|C0JPT7|C0JPT7_RAT Filamin alpha OS=Rattus norvegicus GN=Flna PE=1 SV=1	tr|C0JPT7|C0JPT7_RAT	0.0013
sp|Q66HF1|NDUS1_RAT NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial OS=Rattus norvegicus GN=Ndufs1 PE=1 SV=1	sp|Q66HF1|NDUS1_RAT	0.001
sp|Q6AYT3|RTCB_RAT tRNA-splicing ligase RtcB homolog OS=Rattus norvegicus GN=Rtcb PE=2 SV=1	sp|Q6AYT3|RTCB_RAT	0.00097
tr|D4A8U7|D4A8U7_RAT Dynactin 1, isoform CRA_a OS=Rattus norvegicus GN=Dctn1 PE=1 SV=2	tr|D4A8U7|D4A8U7_RAT	0.00087
tr|Q6AYI1|Q6AYI1_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 OS=Rattus norvegicus GN=Ddx5 PE=1 SV=1	tr|Q6AYI1|Q6AYI1_RAT	0.0013
sp|P47942|DPYL2_RAT Dihydropyrimidinase-related protein 2 OS=Rattus norvegicus GN=Dpysl2 PE=1 SV=1	sp|P47942|DPYL2_RAT	0.0012
Cluster of tr|Q6P3V8|Q6P3V8_RAT Eukaryotic translation initiation factor 4A1 OS=Rattus norvegicus GN=Eif4a1 PE=1 SV=1 (tr|Q6P3V8|Q6P3V8_RAT)	tr|Q6P3V8|Q6P3V8_RAT [2]	0.001
tr|Q6P3V8|Q6P3V8_RAT Eukaryotic translation initiation factor 4A1 OS=Rattus norvegicus GN=Eif4a1 PE=1 SV=1	tr|Q6P3V8|Q6P3V8_RAT	0.00097
sp|Q5RKI1|IF4A2_RAT Eukaryotic initiation factor 4A-II OS=Rattus norvegicus GN=Eif4a2 PE=1 SV=1	sp|Q5RKI1|IF4A2_RAT	0.00049
sp|Q9Z1X1|ESYT1_RAT Extended synaptotagmin-1 OS=Rattus norvegicus GN=Esyt1 PE=1 SV=1	sp|Q9Z1X1|ESYT1_RAT	0.0011
tr|A0A0G2K5E7|A0A0G2K5E7_RAT ATP-citrate synthase OS=Rattus norvegicus GN=Acly PE=1 SV=1	tr|A0A0G2K5E7|A0A0G2K5E7_RAT (+1)	0.001
sp|P63159|HMGB1_RAT High mobility group protein B1 OS=Rattus norvegicus GN=Hmgb1 PE=1 SV=2	sp|P63159|HMGB1_RAT	0.00083

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q924S5|LONM_RAT Lon protease homolog, mitochondrial OS=Rattus norvegicus GN=Lonp1 PE=2 SV=1	sp|Q924S5|LONM_RAT	0.00087
sp|P04636|MDHM_RAT Malate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Mdh2 PE=1 SV=2	sp|P04636|MDHM_RAT	0.00083
sp|P06685|AT1A1_RAT Sodium/potassium-transporting ATPase subunit alpha-1 OS=Rattus norvegicus GN=Atp1a1 PE=1 SV=1	sp|P06685|AT1A1_RAT	0.001
sp|Q505J8|SYFA_RAT Phenylalanine--tRNA ligase alpha subunit OS=Rattus norvegicus GN=Farsa PE=1 SV=1	sp|Q505J8|SYFA_RAT	0.00076
sp|Q62733|LAP2_RAT Lamina-associated polypeptide 2, isoform beta OS=Rattus norvegicus GN=Tmpo PE=1 SV=3	sp|Q62733|LAP2_RAT	0.00083
tr|G3V7Q7|G3V7Q7_RAT IQ motif containing GTPase activating protein 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Iqgap1 PE=1 SV=1	tr|G3V7Q7|G3V7Q7_RAT	0.0011
Cluster of tr|M0R5J4|M0R5J4_RAT Uncharacterized protein OS=Rattus norvegicus PE=3 SV=1 (tr|M0R5J4|M0R5J4_RAT)	tr|M0R5J4|M0R5J4_RAT [3]	0.00087
tr|M0R5J4|M0R5J4_RAT Uncharacterized protein OS=Rattus norvegicus PE=3 SV=1	tr|M0R5J4|M0R5J4_RAT (+1)	0.00083
sp|P07323|ENOG_RAT Gamma-enolase OS=Rattus norvegicus GN=Eno2 PE=1 SV=2	sp|P07323|ENOG_RAT	0.00017
tr|Q3MHS9|Q3MHS9_RAT Chaperonin containing Tcp1, subunit 6A (Zeta 1) OS=Rattus norvegicus GN=Cct6a PE=1 SV=1	tr|Q3MHS9|Q3MHS9_RAT	0.0008
Cluster of sp|P04905|GSTM1_RAT Glutathione S-transferase Mu 1 OS=Rattus norvegicus GN=Gstm1 PE=1 SV=2 (sp|P04905|GSTM1_RAT)	sp|P04905|GSTM1_RAT	0.00087
sp|P04905|GSTM1_RAT Glutathione S-transferase Mu 1 OS=Rattus norvegicus GN=Gstm1 PE=1 SV=2	sp|P04905|GSTM1_RAT	0.0008
sp|P10362|SCG2_RAT Secretogranin-2 OS=Rattus norvegicus GN=Scg2 PE=1 SV=1	sp|P10362|SCG2_RAT	0.0007
sp|Q68FQ0|TCPE_RAT T-complex protein 1 subunit epsilon OS=Rattus norvegicus GN=Cct5 PE=1 SV=1	sp|Q68FQ0|TCPE_RAT	0.0008
tr|D3ZYS7|D3ZYS7_RAT Protein G3bp1 OS=Rattus norvegicus GN=G3bp1 PE=1 SV=1	tr|D3ZYS7|D3ZYS7_RAT	0.00076
tr|D4A9L2|D4A9L2_RAT Protein Srsf1 OS=Rattus norvegicus GN=Srsf1 PE=1 SV=1	tr|D4A9L2|D4A9L2_RAT	0.00083
sp|O35567|PUR9_RAT Bifunctional purine biosynthesis protein PURH OS=Rattus norvegicus GN=Atic PE=1 SV=2	sp|O35567|PUR9_RAT	0.0009
sp|P04644|RS17_RAT 40S ribosomal protein S17 OS=Rattus norvegicus GN=Rps17 PE=1 SV=3	sp|P04644|RS17_RAT (+2)	0.0007
sp|Q2PQA9|KINH_RAT Kinesin-1 heavy chain OS=Rattus norvegicus GN=Kif5b PE=1 SV=1	sp|Q2PQA9|KINH_RAT	0.0011
Cluster of sp|Q641Z6|EHD1_RAT EH domain-containing protein 1 OS=Rattus norvegicus GN=Ehd1 PE=1 SV=1 (sp|Q641Z6|EHD1_RAT)	sp|Q641Z6|EHD1_RAT [2]	0.0007
sp|Q641Z6|EHD1_RAT EH domain-containing protein 1 OS=Rattus norvegicus GN=Ehd1 PE=1 SV=1	sp|Q641Z6|EHD1_RAT	0.00059
sp|Q8R491|EHD3_RAT EH domain-containing protein 3 OS=Rattus norvegicus GN=Ehd3 PE=1 SV=2	sp|Q8R491|EHD3_RAT	0.00038
tr|D4A133|D4A133_RAT Protein Atp6v1a OS=Rattus norvegicus GN=Atp6v1a PE=1 SV=1	tr|D4A133|D4A133_RAT	0.0007
tr|D4AC23|D4AC23_RAT Protein Cct7 OS=Rattus norvegicus GN=Cct7 PE=1 SV=1	tr|D4AC23|D4AC23_RAT	0.00097
sp|P04642|LDHA_RAT L-lactate dehydrogenase A chain OS=Rattus norvegicus GN=Ldha PE=1 SV=1	sp|P04642|LDHA_RAT	0.00076
sp|Q80U96|XPO1_RAT Exportin-1 OS=Rattus norvegicus GN=Xpo1 PE=1 SV=1	sp|Q80U96|XPO1_RAT	0.0008
tr|D3ZJD2|D3ZJD2_RAT Protein Atad2 OS=Rattus norvegicus GN=Atad2 PE=1 SV=2	tr|D3ZJD2|D3ZJD2_RAT	0.0008
tr|G3V8A5|G3V8A5_RAT Protein Vps35 OS=Rattus norvegicus GN=Vps35 PE=1 SV=1	tr|G3V8A5|G3V8A5_RAT	0.00083
sp|P13803|ETFA_RAT Electron transfer flavoprotein subunit alpha, mitochondrial OS=Rattus norvegicus GN=Etfa PE=1 SV=4	sp|P13803|ETFA_RAT	0.00073
sp|P19945|RLA0_RAT 60S acidic ribosomal protein P0 OS=Rattus norvegicus GN=Rplp0 PE=1 SV=2	sp|P19945|RLA0_RAT	0.00073
sp|P49242|RS3A_RAT 40S ribosomal protein S3a OS=Rattus norvegicus GN=Rps3a PE=1 SV=2	sp|P49242|RS3A_RAT	0.00066
Cluster of sp|P60881|SNP25_RAT Synaptosomal-associated protein 25 OS=Rattus norvegicus GN=Snap25 PE=1 SV=1 (sp|P60881|SNP25_RAT)	sp|P60881|SNP25_RAT [2]	0.00073
sp|P60881|SNP25_RAT Synaptosomal-associated protein 25 OS=Rattus norvegicus GN=Snap25 PE=1 SV=1	sp|P60881|SNP25_RAT	0.00066
sp|P60881-2|SNP25_RAT Isoform 2 of Synaptosomal-associated protein 25 OS=Rattus norvegicus GN=Snap25	sp|P60881-2|SNP25_RAT	0.00059
Cluster of sp|P62944-2|AP2B1_RAT Isoform 2 of AP-2 complex subunit beta OS=Rattus norvegicus GN=Ap2b1 (sp|P62944-2|AP2B1_RAT)	sp|P62944-2|AP2B1_RAT [4]	0.00073
sp|P62944-2|AP2B1_RAT Isoform 2 of AP-2 complex subunit beta OS=Rattus norvegicus GN=Ap2b1	sp|P62944-2|AP2B1_RAT (+1)	0.00052
tr|A0A0G2K2V2|A0A0G2K2V2_RAT AP complex subunit beta OS=Rattus norvegicus GN=Ap1b1 PE=1 SV=1	tr|A0A0G2K2V2|A0A0G2K2V2_RAT (+1)	0.00042
Cluster of tr|A0A0G2K719|A0A0G2K719_RAT Protein Ddx3x OS=Rattus norvegicus GN=Ddx3x PE=1 SV=1 (tr|A0A0G2K719|A0A0G2K719_RAT)	tr|A0A0G2K719|A0A0G2K719_RAT [2]	0.0009
tr|A0A0G2K719|A0A0G2K719_RAT Protein Ddx3x OS=Rattus norvegicus GN=Ddx3x PE=1 SV=1	tr|A0A0G2K719|A0A0G2K719_RAT	0.0008
tr|A0A0G2K9N3|A0A0G2K9N3_RAT Protein Ddx3 OS=Rattus norvegicus GN=Ddx3 PE=1 SV=1	tr|A0A0G2K9N3|A0A0G2K9N3_RAT	0.00059
tr|D3ZFP4|D3ZFP4_RAT DNA helicase OS=Rattus norvegicus GN=Mcm3 PE=1 SV=3	tr|D3ZFP4|D3ZFP4_RAT	0.00076
Cluster of tr|A0A0G2JXT8|A0A0G2JXT8_RAT Protein Flnb OS=Rattus norvegicus GN=Flnb PE=1 SV=1 (tr|A0A0G2JXT8|A0A0G2JXT8_RAT)	tr|A0A0G2JXT8|A0A0G2JXT8_RAT [4]	0.0011
tr|A0A0G2JXT8|A0A0G2JXT8_RAT Protein Flnb OS=Rattus norvegicus GN=Flnb PE=1 SV=1	tr|A0A0G2JXT8|A0A0G2JXT8_RAT (+1)	0.0011
sp|D3ZHA0|FLNC_RAT Filamin-C OS=Rattus norvegicus GN=Flnc PE=1 SV=1	sp|D3ZHA0|FLNC_RAT (+1)	0.00024
Cluster of tr|A0A0G2K654|A0A0G2K654_RAT Protein LOC684681 OS=Rattus norvegicus GN=LOC684681 PE=1 SV=1 (tr|A0A0G2K654|A0A0G2K654_RAT)	tr|A0A0G2K654|A0A0G2K654_RAT [2]	0.00087
tr|A0A0G2K654|A0A0G2K654_RAT Protein LOC684681 OS=Rattus norvegicus GN=LOC684681 PE=1 SV=1	tr|A0A0G2K654|A0A0G2K654_RAT	0.0008
tr|M0R7B4|M0R7B4_RAT Protein LOC684828 OS=Rattus norvegicus GN=LOC684828 PE=1 SV=2	tr|M0R7B4|M0R7B4_RAT	0.00056
Cluster of tr|B0K031|B0K031_RAT 60S ribosomal protein L7 OS=Rattus norvegicus GN=Rpl7 PE=1 SV=1 (tr|B0K031|B0K031_RAT)	tr|B0K031|B0K031_RAT	0.00073
tr|B0K031|B0K031_RAT 60S ribosomal protein L7 OS=Rattus norvegicus GN=Rpl7 PE=1 SV=1	tr|B0K031|B0K031_RAT	0.00073
Cluster of tr|D3ZC56|D3ZC56_RAT Protein Dst OS=Rattus norvegicus GN=Dst PE=1 SV=3 (tr|D3ZC56|D3ZC56_RAT)	tr|D3ZC56|D3ZC56_RAT	0.00087
tr|D3ZC56|D3ZC56_RAT Protein Dst OS=Rattus norvegicus GN=Dst PE=1 SV=3	tr|D3ZC56|D3ZC56_RAT	0.00087
sp|P39951|CDK1_RAT Cyclin-dependent kinase 1 OS=Rattus norvegicus GN=Cdk1 PE=1 SV=1	sp|P39951|CDK1_RAT	0.00076
sp|Q63081|PDIA6_RAT Protein disulfide-isomerase A6 OS=Rattus norvegicus GN=Pdia6 PE=1 SV=2	sp|Q63081|PDIA6_RAT (+1)	0.0007
tr|A0A0G2JVH4|A0A0G2JVH4_RAT MICOS complex subunit MIC60 OS=Rattus norvegicus GN=Immt PE=1 SV=1	tr|A0A0G2JVH4|A0A0G2JVH4_RAT	0.00076
Cluster of sp|P09330|PRPS2_RAT Ribose-phosphate pyrophosphokinase 2 OS=Rattus norvegicus GN=Prps2 PE=1 SV=3 (sp|P09330|PRPS2_RAT)	sp|P09330|PRPS2_RAT [2]	0.00066
sp|P09330|PRPS2_RAT Ribose-phosphate pyrophosphokinase 2 OS=Rattus norvegicus GN=Prps2 PE=1 SV=3	sp|P09330|PRPS2_RAT	0.00066
sp|P60892|PRPS1_RAT Ribose-phosphate pyrophosphokinase 1 OS=Rattus norvegicus GN=Prps1 PE=1 SV=2	sp|P60892|PRPS1_RAT	0.00052
sp|P24049|RL17_RAT 60S ribosomal protein L17 OS=Rattus norvegicus GN=Rpl17 PE=2 SV=3	sp|P24049|RL17_RAT (+2)	0.00063
sp|Q9QUL6|NSF_RAT Vesicle-fusing ATPase OS=Rattus norvegicus GN=Nsf PE=1 SV=1	sp|Q9QUL6|NSF_RAT (+2)	0.0007
tr|D3ZH41|D3ZH41_RAT Cytoskeleton-associated protein 4 (Predicted) OS=Rattus norvegicus GN=Ckap4 PE=1 SV=2	tr|D3ZH41|D3ZH41_RAT	0.00063
tr|F1LQJ7|F1LQJ7_RAT Protein Pck2 OS=Rattus norvegicus GN=Pck2 PE=1 SV=2	tr|F1LQJ7|F1LQJ7_RAT	0.00083
sp|P00388|NCPR_RAT NADPH--cytochrome P450 reductase OS=Rattus norvegicus GN=Por PE=1 SV=3	sp|P00388|NCPR_RAT	0.0008
sp|Q66X93|SND1_RAT Staphylococcal nuclease domain-containing protein 1 OS=Rattus norvegicus GN=Snd1 PE=1 SV=1	sp|Q66X93|SND1_RAT	0.00087
sp|Q6AXS5|PAIRB_RAT Plasminogen activator inhibitor 1 RNA-binding protein OS=Rattus norvegicus GN=Serbp1 PE=1 SV=2	sp|Q6AXS5|PAIRB_RAT	0.00059
sp|Q7TPB1|TCPD_RAT T-complex protein 1 subunit delta OS=Rattus norvegicus GN=Cct4 PE=1 SV=3	sp|Q7TPB1|TCPD_RAT	0.0008
tr|B1WC49|B1WC49_RAT Api5 protein OS=Rattus norvegicus GN=Api5 PE=1 SV=1	tr|B1WC49|B1WC49_RAT	0.00073
tr|G3V936|G3V936_RAT Citrate synthase OS=Rattus norvegicus GN=Cs PE=1 SV=1	tr|G3V936|G3V936_RAT	0.0007
tr|Q5U3Y8|Q5U3Y8_RAT Transcription factor BTF3 OS=Rattus norvegicus GN=Btf3 PE=1 SV=1	tr|Q5U3Y8|Q5U3Y8_RAT	0.00063

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|P17764|THIL_RAT Acetyl-CoA acetyltransferase, mitochondrial OS=Rattus norvegicus GN=Acat1 PE=1 SV=1	sp|P17764|THIL_RAT	0.00066
Cluster of sp|P21575-5|DYN1_RAT Isoform 5 of Dynamin-1 OS=Rattus norvegicus GN=Dnm1 (sp|P21575-5|DYN1_RAT)	sp|P21575-5|DYN1_RAT [7]	0.0007
sp|P21575-5|DYN1_RAT Isoform 5 of Dynamin-1 OS=Rattus norvegicus GN=Dnm1	sp|P21575-5|DYN1_RAT (+3)	0.00063
sp|P39052-3|DYN2_RAT Isoform 3 of Dynamin-2 OS=Rattus norvegicus GN=Dnm2	sp|P39052-3|DYN2_RAT (+2)	0.00028
sp|P28480|TCPA_RAT T-complex protein 1 subunit alpha OS=Rattus norvegicus GN=Tcp1 PE=1 SV=1	sp|P28480|TCPA_RAT	0.00076
sp|Q63569|PRS6A_RAT 26S protease regulatory subunit 6A OS=Rattus norvegicus GN=Psmc3 PE=2 SV=1	sp|Q63569|PRS6A_RAT (+1)	0.00056
sp|Q6PDV7|RL10_RAT 60S ribosomal protein L10 OS=Rattus norvegicus GN=Rpl10 PE=1 SV=3	sp|Q6PDV7|RL10_RAT	0.00066
sp|Q9Z2L0|VDAC1_RAT Voltage-dependent anion-selective channel protein 1 OS=Rattus norvegicus GN=Vdac1 PE=1 SV=4	sp|Q9Z2L0|VDAC1_RAT	0.00066
tr|D4A0Y6|D4A0Y6_RAT Protein Mki67 OS=Rattus norvegicus GN=Mki67 PE=1 SV=2	tr|D4A0Y6|D4A0Y6_RAT	0.0007
tr|D4A1B9|D4A1B9_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc3 PE=1 SV=1	tr|D4A1B9|D4A1B9_RAT (+1)	0.0007
tr|F1MAA5|F1MAA5_RAT Protein Rangap1 OS=Rattus norvegicus GN=Rangap1 PE=1 SV=2	tr|F1MAA5|F1MAA5_RAT	0.0007
tr|Q3KRF2|Q3KRF2_RAT High density lipoprotein binding protein (Vigilin) OS=Rattus norvegicus GN=Hdlbp PE=1 SV=1	tr|Q3KRF2|Q3KRF2_RAT	0.00087
tr|Q66HM7|Q66HM7_RAT Lupus La protein homolog OS=Rattus norvegicus GN=Ssb PE=1 SV=1	tr|Q66HM7|Q66HM7_RAT	0.00063
sp|P12785|FAS_RAT Fatty acid synthase OS=Rattus norvegicus GN=Fasn PE=1 SV=3	sp|P12785|FAS_RAT	0.00087
sp|P82995|HS90A_RAT Heat shock protein HSP 90-alpha OS=Rattus norvegicus GN=Hsp90aa1 PE=1 SV=3	sp|P82995|HS90A_RAT	0.0014
Cluster of sp|Q63610|TPM3_RAT Tropomyosin alpha-3 chain OS=Rattus norvegicus GN=Tpm3 PE=1 SV=2 (sp|Q63610|TPM3_RAT)	sp|Q63610|TPM3_RAT [7]	0.00049
sp|Q63610|TPM3_RAT Tropomyosin alpha-3 chain OS=Rattus norvegicus GN=Tpm3 PE=1 SV=2	sp|Q63610|TPM3_RAT	0.00031
sp|P09495|TPM4_RAT Tropomyosin alpha-4 chain OS=Rattus norvegicus GN=Tpm4 PE=1 SV=3	sp|P09495|TPM4_RAT	0.00028
sp|P04692-4|TPM1_RAT Isoform 4 of Tropomyosin alpha-1 chain OS=Rattus norvegicus GN=Tpm1	sp|P04692-4|TPM1_RAT (+4)	0.00007
sp|O35314|SCG1_RAT Secretogranin-1 OS=Rattus norvegicus GN=Chgb PE=1 SV=2	sp|O35314|SCG1_RAT	0.00066
sp|O35821|MBB1A_RAT Myb-binding protein 1A OS=Rattus norvegicus GN=Mybbp1a PE=1 SV=2	sp|O35821|MBB1A_RAT	0.00076
sp|P21775|THIKA_RAT 3-ketoacyl-CoA thiolase A, peroxisomal OS=Rattus norvegicus GN=Acaa1a PE=1 SV=2	sp|P21775|THIKA_RAT (+1)	0.00063
Cluster of sp|P62961|YBOX1_RAT Nuclease-sensitive element-binding protein 1 OS=Rattus norvegicus GN=Ybx1 PE=2 SV=3 (sp|P62961|YBOX1_RAT)	sp|P62961|YBOX1_RAT [7]	0.00063
sp|P62961|YBOX1_RAT Nuclease-sensitive element-binding protein 1 OS=Rattus norvegicus GN=Ybx1 PE=2 SV=3	sp|P62961|YBOX1_RAT (+1)	0.00045
sp|Q62764-2|YBOX3_RAT Isoform 2 of Y-box-binding protein 3 OS=Rattus norvegicus GN=Ybx3	sp|Q62764-2|YBOX3_RAT (+3)	0.00024
tr|D4A3P0|D4A3P0_RAT Protein Ybx2 OS=Rattus norvegicus GN=Ybx2 PE=1 SV=1	tr|D4A3P0|D4A3P0_RAT	0.00024
sp|Q99NA5|IDH3A_RAT Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial OS=Rattus norvegicus GN=Idh3a PE=1 SV=1	sp|Q99NA5|IDH3A_RAT (+1)	0.00063
tr|A0A0G2K0B4|A0A0G2K0B4_RAT E3 ubiquitin-protein ligase NEDD4 OS=Rattus norvegicus GN=Nedd4 PE=1 SV=1	tr|A0A0G2K0B4|A0A0G2K0B4_RAT (+1)	0.00066
tr|G3V8T7|G3V8T7_RAT Protein Tdrkh OS=Rattus norvegicus GN=Tdrkh PE=1 SV=1	tr|G3V8T7|G3V8T7_RAT	0.00063
tr|Q4KLI7|Q4KLI7_RAT Protein Sf3a3 OS=Rattus norvegicus GN=Sf3a3 PE=1 SV=1	tr|Q4KLI7|Q4KLI7_RAT	0.00066
Cluster of sp|P05065|ALDOA_RAT Fructose-bisphosphate aldolase A OS=Rattus norvegicus GN=Aldoa PE=1 SV=2 (sp|P05065|ALDOA_RAT)	sp|P05065|ALDOA_RAT	0.00059
sp|P05065|ALDOA_RAT Fructose-bisphosphate aldolase A OS=Rattus norvegicus GN=Aldoa PE=1 SV=2	sp|P05065|ALDOA_RAT	0.00059
sp|P16617|PGK1_RAT Phosphoglycerate kinase 1 OS=Rattus norvegicus GN=Pgk1 PE=1 SV=2	sp|P16617|PGK1_RAT	0.00049
sp|Q00438-2|PTBP1_RAT Isoform PYBP1 of Polypyrimidine tract-binding protein 1 OS=Rattus norvegicus GN=Ptbp1	sp|Q00438-2|PTBP1_RAT (+3)	0.0008
sp|Q06647|ATPO_RAT ATP synthase subunit O, mitochondrial OS=Rattus norvegicus GN=Atp5o PE=1 SV=1	sp|Q06647|ATPO_RAT	0.0007
Cluster of sp|Q5U300|UBA1_RAT Ubiquitin-like modifier-activating enzyme 1 OS=Rattus norvegicus GN=Uba1 PE=1 SV=1 (sp|Q5U300|UBA1_RAT)	sp|Q5U300|UBA1_RAT	0.00066
sp|Q5U300|UBA1_RAT Ubiquitin-like modifier-activating enzyme 1 OS=Rattus norvegicus GN=Uba1 PE=1 SV=1	sp|Q5U300|UBA1_RAT	0.00066
sp|Q64428|ECHA_RAT Trifunctional enzyme subunit alpha, mitochondrial OS=Rattus norvegicus GN=Hadha PE=1 SV=2	sp|Q64428|ECHA_RAT	0.0007
sp|Q64537|CPNS1_RAT Calpain small subunit 1 OS=Rattus norvegicus GN=Capns1 PE=1 SV=3	sp|Q64537|CPNS1_RAT (+1)	0.00049
Cluster of tr|A0A0G2JZM8|A0A0G2JZM8_RAT CLIP-associating protein 2 OS=Rattus norvegicus GN=Clasp2 PE=1 SV=1 (tr|A0A0G2JZM8|A0A0G2JZM8_RAT)	tr|A0A0G2JZM8|A0A0G2JZM8_RAT [2]	0.00083
tr|A0A0G2JZM8|A0A0G2JZM8_RAT CLIP-associating protein 2 OS=Rattus norvegicus GN=Clasp2 PE=1 SV=1	tr|A0A0G2JZM8|A0A0G2JZM8_RAT	0.0008
sp|Q99JD4|CLAP2_RAT CLIP-associating protein 2 OS=Rattus norvegicus GN=Clasp2 PE=1 SV=1	sp|Q99JD4|CLAP2_RAT	0.0008
tr|D4A4Z9|D4A4Z9_RAT Protein Ktn1 OS=Rattus norvegicus GN=Ktn1 PE=1 SV=2	tr|D4A4Z9|D4A4Z9_RAT	0.00073
tr|G3V6W6|G3V6W6_RAT Protein Psmc6 OS=Rattus norvegicus GN=Psmc6 PE=1 SV=1	tr|G3V6W6|G3V6W6_RAT	0.00056
sp|P24329|THTR_RAT Thiosulfate sulfurtransferase OS=Rattus norvegicus GN=Tst PE=1 SV=3	sp|P24329|THTR_RAT	0.00066
sp|P32551|QCR2_RAT Cytochrome b-c1 complex subunit 2, mitochondrial OS=Rattus norvegicus GN=Uqcrc2 PE=1 SV=2	sp|P32551|QCR2_RAT	0.00052
sp|Q3T1J1|IF5A1_RAT Eukaryotic translation initiation factor 5A-1 OS=Rattus norvegicus GN=Eif5a PE=1 SV=3	sp|Q3T1J1|IF5A1_RAT	0.00059
sp|Q64119|MYL6_RAT Myosin light polypeptide 6 OS=Rattus norvegicus GN=Myl6 PE=1 SV=3	sp|Q64119|MYL6_RAT (+2)	0.00059
sp|Q68FS4-2|AMPL_RAT Isoform 2 of Cytosol aminopeptidase OS=Rattus norvegicus GN=Lap3	sp|Q68FS4-2|AMPL_RAT	0.00066
sp|Q68FY0|QCR1_RAT Cytochrome b-c1 complex subunit 1, mitochondrial OS=Rattus norvegicus GN=Uqcrc1 PE=1 SV=1	sp|Q68FY0|QCR1_RAT	0.00073
tr|B1WC67|B1WC67_RAT Protein Slc25a24 OS=Rattus norvegicus GN=Slc25a24 PE=1 SV=1	tr|B1WC67|B1WC67_RAT	0.00052
sp|P20156|VGF_RAT Neurosecretory protein VGF OS=Rattus norvegicus GN=Vgf PE=1 SV=3	sp|P20156|VGF_RAT (+1)	0.00063
Cluster of sp|P62815|VATB2_RAT V-type proton ATPase subunit B, brain isoform OS=Rattus norvegicus GN=Atp6v1b2 PE=1 SV=1 (sp|P62815|VATB2_RAT)	sp|P62815|VATB2_RAT	0.00063
sp|P62815|VATB2_RAT V-type proton ATPase subunit B, brain isoform OS=Rattus norvegicus GN=Atp6v1b2 PE=1 SV=1	sp|P62815|VATB2_RAT	0.00063
sp|P63245|GBLP_RAT Guanine nucleotide-binding protein subunit beta-2-like 1 OS=Rattus norvegicus GN=Gnb2l1 PE=1 SV=3	sp|P63245|GBLP_RAT	0.00056
sp|Q812D1|PSIP1_RAT PC4 and SFRS1-interacting protein OS=Rattus norvegicus GN=Psip1 PE=1 SV=1	sp|Q812D1|PSIP1_RAT (+1)	0.00052
tr|F1LN88|F1LN88_RAT Aldehyde dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh2 PE=1 SV=2	tr|F1LN88|F1LN88_RAT	0.00066
sp|O08629|TIF1B_RAT Transcription intermediary factor 1-beta OS=Rattus norvegicus GN=Trim28 PE=1 SV=2	sp|O08629|TIF1B_RAT	0.00056
sp|O70351|HCD2_RAT 3-hydroxyacyl-CoA dehydrogenase type-2 OS=Rattus norvegicus GN=Hsd17b10 PE=1 SV=3	sp|O70351|HCD2_RAT (+1)	0.00056
Cluster of sp|P18666|ML12B_RAT Myosin regulatory light chain 12B OS=Rattus norvegicus GN=Myl12b PE=1 SV=3 (sp|P18666|ML12B_RAT)	sp|P18666|ML12B_RAT [3]	0.00066
sp|P18666|ML12B_RAT Myosin regulatory light chain 12B OS=Rattus norvegicus GN=Myl12b PE=1 SV=3	sp|P18666|ML12B_RAT (+1)	0.00052
sp|P13832|MRLCA_RAT Myosin regulatory light chain RLC-A OS=Rattus norvegicus GN=Rlc-a PE=2 SV=2	sp|P13832|MRLCA_RAT	0.00052
sp|P27008|PARP1_RAT Poly [ADP-ribose] polymerase 1 OS=Rattus norvegicus GN=Parp1 PE=1 SV=4	sp|P27008|PARP1_RAT	0.00066
sp|P62909|RS3_RAT 40S ribosomal protein S3 OS=Rattus norvegicus GN=Rps3 PE=1 SV=1	sp|P62909|RS3_RAT	0.00066
Cluster of sp|P63326|RS10_RAT 40S ribosomal protein S10 OS=Rattus norvegicus GN=Rps10 PE=2 SV=1 (sp|P63326|RS10_RAT)	sp|P63326|RS10_RAT [2]	0.00056
sp|P63326|RS10_RAT 40S ribosomal protein S10 OS=Rattus norvegicus GN=Rps10 PE=2 SV=1	sp|P63326|RS10_RAT (+1)	0.00056
sp|Q4V7C7|ARP3_RAT Actin-related protein 3 OS=Rattus norvegicus GN=Actr3 PE=1 SV=1	sp|Q4V7C7|ARP3_RAT (+1)	0.00063
sp|Q641X8|EIF3E_RAT Eukaryotic translation initiation factor 3 subunit E OS=Rattus norvegicus GN=Eif3e PE=2 SV=1	sp|Q641X8|EIF3E_RAT	0.00066

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q6Q0N3|NT5D2_RAT 5'-nucleotidase domain-containing protein 2 OS=Rattus norvegicus GN=Nt5dc2 PE=2 SV=2	sp|Q6Q0N3|NT5D2_RAT	0.00066
tr|D3ZMS1|D3ZMS1_RAT Protein Sf3b2 OS=Rattus norvegicus GN=Sf3b2 PE=1 SV=3	tr|D3ZMS1|D3ZMS1_RAT	0.00049
tr|M0R735|M0R735_RAT Heterogeneous nuclear ribonucleoprotein Q OS=Rattus norvegicus GN=Syncrip PE=1 SV=2	tr|M0R735|M0R735_RAT	0.00066
Cluster of sp|P08413|KCC2B_RAT Calcium/calmodulin-dependent protein kinase type II subunit beta OS=Rattus norvegicus GN=Camk2b PE=1 SV=1 (sp|P08413	sp|P08413|KCC2B_RAT [11]	0.00066
sp|P08413|KCC2B_RAT Calcium/calmodulin-dependent protein kinase type II subunit beta OS=Rattus norvegicus GN=Camk2b PE=1 SV=1	sp|P08413|KCC2B_RAT (+3)	0.00038
sp|P15791-2|KCC2D_RAT Isoform Delta 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta OS=Rattus norvegicus GN=Camk2d	sp|P15791-2|KCC2D_RAT (+3)	0.00031
sp|P11730-2|KCC2G_RAT Isoform B of Calcium/calmodulin-dependent protein kinase type II subunit gamma OS=Rattus norvegicus GN=Camk2g	sp|P11730-2|KCC2G_RAT (+2)	0.00031
sp|P10860|DHE3_RAT Glutamate dehydrogenase 1, mitochondrial OS=Rattus norvegicus GN=Glud1 PE=1 SV=2	sp|P10860|DHE3_RAT	0.00066
sp|P85834|EFTU_RAT Elongation factor Tu, mitochondrial OS=Rattus norvegicus GN=Tufm PE=1 SV=1	sp|P85834|EFTU_RAT	0.00063
sp|Q9Z1M9|SMC1A_RAT Structural maintenance of chromosomes protein 1A OS=Rattus norvegicus GN=Smc1a PE=1 SV=1	sp|Q9Z1M9|SMC1A_RAT (+1)	0.00073
tr|Q4KLK7|Q4KLK7_RAT Nucleolar protein 5A OS=Rattus norvegicus GN=Nop56 PE=1 SV=1	tr|Q4KLK7|Q4KLK7_RAT	0.0007
sp|F1LNJ2|U520_RAT U5 small nuclear ribonucleoprotein 200 kDa helicase OS=Rattus norvegicus GN=Snrnp200 PE=1 SV=1	sp|F1LNJ2|U520_RAT (+1)	0.0008
sp|P31399|ATP5H_RAT ATP synthase subunit d, mitochondrial OS=Rattus norvegicus GN=Atp5h PE=1 SV=3	sp|P31399|ATP5H_RAT	0.00049
sp|P62703|RS4X_RAT 40S ribosomal protein S4, X isoform OS=Rattus norvegicus GN=Rps4x PE=2 SV=2	sp|P62703|RS4X_RAT (+2)	0.00052
Cluster of sp|Q4AEF8|COPG1_RAT Coatomer subunit gamma-1 OS=Rattus norvegicus GN=Copg1 PE=2 SV=1 (sp|Q4AEF8|COPG1_RAT)	sp|Q4AEF8|COPG1_RAT [3]	0.00056
sp|Q4AEF8|COPG1_RAT Coatomer subunit gamma-1 OS=Rattus norvegicus GN=Copg1 PE=2 SV=1	sp|Q4AEF8|COPG1_RAT	0.00052
sp|D4ABY2|COPG2_RAT Coatomer subunit gamma-2 OS=Rattus norvegicus GN=Copg2 PE=3 SV=2	sp|D4ABY2|COPG2_RAT (+1)	0.00014
sp|Q6AYH5|DCTN2_RAT Dynactin subunit 2 OS=Rattus norvegicus GN=Dctn2 PE=1 SV=1	sp|Q6AYH5|DCTN2_RAT (+1)	0.00049
tr|F1LQP9|F1LQP9_RAT Protein Tnpo1 OS=Rattus norvegicus GN=Tnpo1 PE=1 SV=3	tr|F1LQP9|F1LQP9_RAT	0.00042
tr|G3V681|G3V681_RAT Protein Mcm4 OS=Rattus norvegicus GN=Mcm4 PE=1 SV=1	tr|G3V681|G3V681_RAT	0.00063
Cluster of sp|P62138|PP1A_RAT Serine/threonine-protein phosphatase PP1-alpha catalytic subunit OS=Rattus norvegicus GN=Ppp1ca PE=1 SV=1 (sp|P62138|P	sp|P62138|PP1A_RAT [5]	0.00056
sp|P62138|PP1A_RAT Serine/threonine-protein phosphatase PP1-alpha catalytic subunit OS=Rattus norvegicus GN=Ppp1ca PE=1 SV=1	sp|P62138|PP1A_RAT	0.00052
sp|P62142|PP1B_RAT Serine/threonine-protein phosphatase PP1-beta catalytic subunit OS=Rattus norvegicus GN=Ppp1cb PE=1 SV=3	sp|P62142|PP1B_RAT	0.00038
sp|P63088-2|PP1G_RAT Isoform Gamma-2 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit OS=Rattus norvegicus GN=Ppp1cc	sp|P63088-2|PP1G_RAT (+2)	0.00038
sp|Q5U2X6|CCD47_RAT Coiled-coil domain-containing protein 47 OS=Rattus norvegicus GN=Ccdc47 PE=2 SV=1	sp|Q5U2X6|CCD47_RAT	0.00035
tr|G3V918|G3V918_RAT Phosphoribosylglycinamide formyltransferase, isoform CRA_a OS=Rattus norvegicus GN=Gart PE=1 SV=1	tr|G3V918|G3V918_RAT	0.00056
tr|Q5U302|Q5U302_RAT Catenin (Cadherin associated protein), alpha 1 OS=Rattus norvegicus GN=Ctnna1 PE=1 SV=1	tr|Q5U302|Q5U302_RAT	0.00059
sp|P19804|NDKB_RAT Nucleoside diphosphate kinase B OS=Rattus norvegicus GN=Nme2 PE=1 SV=1	sp|P19804|NDKB_RAT	0.00066
sp|P23565|AINX_RAT Alpha-internexin OS=Rattus norvegicus GN=Ina PE=1 SV=2	sp|P23565|AINX_RAT	0.00049
sp|P24368|PPIB_RAT Peptidyl-prolyl cis-trans isomerase B OS=Rattus norvegicus GN=Ppib PE=1 SV=3	sp|P24368|PPIB_RAT	0.00049
sp|P60123|RUVB1_RAT RuvB-like 1 OS=Rattus norvegicus GN=Ruvbl1 PE=1 SV=1	sp|P60123|RUVB1_RAT	0.00059
sp|P62845|RS15_RAT 40S ribosomal protein S15 OS=Rattus norvegicus GN=Rps15 PE=1 SV=2	sp|P62845|RS15_RAT	0.00052
sp|Q4V8C2|ZW10_RAT Centromere/kinetochore protein zw10 homolog OS=Rattus norvegicus GN=Zw10 PE=2 SV=3	sp|Q4V8C2|ZW10_RAT	0.00045
sp|Q6AYD3|PA2G4_RAT Proliferation-associated protein 2G4 OS=Rattus norvegicus GN=Pa2g4 PE=1 SV=1	sp|Q6AYD3|PA2G4_RAT	0.00056
Cluster of sp|Q6IFW6|K1C10_RAT Keratin, type I cytoskeletal 10 OS=Rattus norvegicus GN=Krt10 PE=3 SV=1 (sp|Q6IFW6|K1C10_RAT)	sp|Q6IFW6|K1C10_RAT [2]	0.00052
sp|Q6IFW6|K1C10_RAT Keratin, type I cytoskeletal 10 OS=Rattus norvegicus GN=Krt10 PE=3 SV=1	sp|Q6IFW6|K1C10_RAT (+1)	0.00052
sp|Q9QZA2|PDC6I_RAT Programmed cell death 6-interacting protein OS=Rattus norvegicus GN=Pdcd6ip PE=1 SV=2	sp|Q9QZA2|PDC6I_RAT	0.00038
sp|Q9WUL0|TOP1_RAT DNA topoisomerase 1 OS=Rattus norvegicus GN=Top1 PE=1 SV=1	sp|Q9WUL0|TOP1_RAT	0.00049
tr|F1LX07|F1LX07_RAT Protein Slc25a12 OS=Rattus norvegicus GN=Slc25a12 PE=1 SV=3	tr|F1LX07|F1LX07_RAT	0.00059
sp|P26772|CH10_RAT 10 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspe1 PE=1 SV=3	sp|P26772|CH10_RAT	0.00049
sp|P62982|RS27A_RAT Ubiquitin-40S ribosomal protein S27a OS=Rattus norvegicus GN=Rps27a PE=1 SV=2	sp|P62982|RS27A_RAT	0.00038
sp|Q63083|NUCB1_RAT Nucleobindin-1 OS=Rattus norvegicus GN=Nucb1 PE=1 SV=1	sp|Q63083|NUCB1_RAT	0.00056
Cluster of sp|Q63413|DX39B_RAT Spliceosome RNA helicase Ddx39b OS=Rattus norvegicus GN=Ddx39b PE=2 SV=3 (sp|Q63413|DX39B_RAT)	sp|Q63413|DX39B_RAT [2]	0.00049
sp|Q63413|DX39B_RAT Spliceosome RNA helicase Ddx39b OS=Rattus norvegicus GN=Ddx39b PE=2 SV=3	sp|Q63413|DX39B_RAT	0.00045
sp|Q5U216|DX39A_RAT ATP-dependent RNA helicase DDX39A OS=Rattus norvegicus GN=Ddx39a PE=2 SV=1	sp|Q5U216|DX39A_RAT	0.00031
sp|Q9Z270|VAPA_RAT Vesicle-associated membrane protein-associated protein A OS=Rattus norvegicus GN=Vapa PE=1 SV=3	sp|Q9Z270|VAPA_RAT	0.00059
tr|A0A096MIX2|A0A096MIX2_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, isoform CRA_a OS=Rattus norvegicus GN=Ddx17 PE=1 SV=1	tr|A0A096MIX2|A0A096MIX2_RAT (+1)	0.00087
tr|D4A781|D4A781_RAT Protein Ipo5 OS=Rattus norvegicus GN=Ipo5 PE=1 SV=1	tr|D4A781|D4A781_RAT	0.00042
Cluster of sp|P13264-2|GLSK_RAT Isoform 2 of Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls (sp|P13264-2|GLSK_RAT)	sp|P13264-2|GLSK_RAT [2]	0.00042
sp|P13264-2|GLSK_RAT Isoform 2 of Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls	sp|P13264-2|GLSK_RAT	0.00035
sp|P13264|GLSK_RAT Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls PE=1 SV=2	sp|P13264|GLSK_RAT	0.00035
sp|P20070-2|NB5R3_RAT Isoform 2 of NADH-cytochrome b5 reductase 3 OS=Rattus norvegicus GN=Cyb5r3	sp|P20070-2|NB5R3_RAT (+2)	0.00045
sp|P23514|COPB_RAT Coatomer subunit beta OS=Rattus norvegicus GN=Copb1 PE=1 SV=1	sp|P23514|COPB_RAT	0.00052
sp|P25235|RPN2_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 OS=Rattus norvegicus GN=Rpn2 PE=2 SV=2	sp|P25235|RPN2_RAT (+1)	0.00056
sp|P53534|PYGB_RAT Glycogen phosphorylase, brain form (Fragment) OS=Rattus norvegicus GN=Pygb PE=1 SV=3	sp|P53534|PYGB_RAT (+1)	0.00059
sp|P62278|RS13_RAT 40S ribosomal protein S13 OS=Rattus norvegicus GN=Rps13 PE=1 SV=2	sp|P62278|RS13_RAT (+1)	0.00038
sp|P62425|RL7A_RAT 60S ribosomal protein L7a OS=Rattus norvegicus GN=Rpl7a PE=1 SV=2	sp|P62425|RL7A_RAT (+3)	0.00056
Cluster of sp|P85515|ACTZ_RAT Alpha-centractin OS=Rattus norvegicus GN=Actr1a PE=1 SV=1 (sp|P85515|ACTZ_RAT)	sp|P85515|ACTZ_RAT [2]	0.00052
sp|P85515|ACTZ_RAT Alpha-centractin OS=Rattus norvegicus GN=Actr1a PE=1 SV=1	sp|P85515|ACTZ_RAT	0.00038
tr|B2RYJ7|B2RYJ7_RAT ARP1 actin-related protein 1 homolog B (Yeast) OS=Rattus norvegicus GN=Actr1b PE=1 SV=1	tr|B2RYJ7|B2RYJ7_RAT	0.00038
sp|Q5FVI6|VATC1_RAT V-type proton ATPase subunit C 1 OS=Rattus norvegicus GN=Atp6v1c1 PE=2 SV=1	sp|Q5FVI6|VATC1_RAT	0.00045
sp|Q5M9G3|CAPR1_RAT Caprin-1 OS=Rattus norvegicus GN=Caprin1 PE=1 SV=2	sp|Q5M9G3|CAPR1_RAT (+1)	0.00049
sp|Q68FR6|EF1G_RAT Elongation factor 1-gamma OS=Rattus norvegicus GN=Eef1g PE=2 SV=3	sp|Q68FR6|EF1G_RAT	0.00049
tr|B1WBQ0|B1WBQ0_RAT CDC5 cell division cycle 5-like (S. pombe) OS=Rattus norvegicus GN=Cdc5l PE=1 SV=1	tr|B1WBQ0|B1WBQ0_RAT	0.00045
tr|Q5BJT9|Q5BJT9_RAT Creatine kinase, mitochondrial 1, ubiquitous OS=Rattus norvegicus GN=Ckmt1b PE=1 SV=1	tr|Q5BJT9|Q5BJT9_RAT	0.00035
tr|Q6AYN8|Q6AYN8_RAT DNA helicase OS=Rattus norvegicus GN=Mcm7 PE=1 SV=1	tr|Q6AYN8|Q6AYN8_RAT	0.00063
sp|O35814|STIP1_RAT Stress-induced-phosphoprotein 1 OS=Rattus norvegicus GN=Stip1 PE=1 SV=1	sp|O35814|STIP1_RAT	0.00031
sp|P25977-2|UBF1_RAT Isoform UBF2 of Nucleolar transcription factor 1 OS=Rattus norvegicus GN=Ubtf	sp|P25977-2|UBF1_RAT (+1)	0.00042

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|P40329|SYRC_RAT Arginine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Rars PE=1 SV=2	sp|P40329|SYRC_RAT	0.00056
sp|P62260|1433E_RAT 14-3-3 protein epsilon OS=Rattus norvegicus GN=Ywhae PE=1 SV=1	sp|P62260|1433E_RAT	0.0008
sp|P62271|RS18_RAT 40S ribosomal protein S18 OS=Rattus norvegicus GN=Rps18 PE=1 SV=3	sp|P62271|RS18_RAT (+2)	0.00038
sp|P67779|PHB_RAT Prohibitin OS=Rattus norvegicus GN=Phb PE=1 SV=1	sp|P67779|PHB_RAT	0.00052
sp|P85970|ARPC2_RAT Actin-related protein 2/3 complex subunit 2 OS=Rattus norvegicus GN=Arpc2 PE=1 SV=1	sp|P85970|ARPC2_RAT (+2)	0.00038
sp|Q4KM65|CPSF5_RAT Cleavage and polyadenylation specificity factor subunit 5 OS=Rattus norvegicus GN=Nudt21 PE=2 SV=1	sp|Q4KM65|CPSF5_RAT	0.00042
sp|Q63570|PRS6B_RAT 26S protease regulatory subunit 6B OS=Rattus norvegicus GN=Psmc4 PE=1 SV=1	sp|Q63570|PRS6B_RAT	0.00038
sp|Q9ER24|ATX10_RAT Ataxin-10 OS=Rattus norvegicus GN=Atxn10 PE=1 SV=1	sp|Q9ER24|ATX10_RAT	0.00056
tr|D3ZZR5|D3ZZR5_RAT Protein Snrpa1 OS=Rattus norvegicus GN=Snrpa1 PE=1 SV=1	tr|D3ZZR5|D3ZZR5_RAT	0.00042
tr|F1LM66|F1LM66_RAT Protein Eftud2 OS=Rattus norvegicus GN=Eftud2 PE=1 SV=1	tr|F1LM66|F1LM66_RAT	0.00052
tr|G3V6L4|G3V6L4_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif5c PE=1 SV=3	tr|G3V6L4|G3V6L4_RAT	0.0007
tr|G3V7T6|G3V7T6_RAT Protein Sf3b1 OS=Rattus norvegicus GN=Sf3b1 PE=1 SV=1	tr|G3V7T6|G3V7T6_RAT	0.00049
tr|G3V913|G3V913_RAT Heat shock 27kDa protein 1 OS=Rattus norvegicus GN=Hspb1 PE=1 SV=1	tr|G3V913|G3V913_RAT	0.00052
sp|Q2TA68-3|OPA1_RAT Isoform 3 of Dynamin-like 120 kDa protein, mitochondrial OS=Rattus norvegicus GN=Opa1	sp|Q2TA68-3|OPA1_RAT (+1)	0.00038
sp|Q3MIE4|VAT1_RAT Synaptic vesicle membrane protein VAT-1 homolog OS=Rattus norvegicus GN=Vat1 PE=1 SV=1	sp|Q3MIE4|VAT1_RAT	0.00052
sp|Q5RJR8|LRC59_RAT Leucine-rich repeat-containing protein 59 OS=Rattus norvegicus GN=Lrrc59 PE=1 SV=1	sp|Q5RJR8|LRC59_RAT	0.00045
sp|Q5XFX0|TAGL2_RAT Transgelin-2 OS=Rattus norvegicus GN=Tagln2 PE=1 SV=1	sp|Q5XFX0|TAGL2_RAT	0.00056
sp|Q641W4|RFC2_RAT Replication factor C subunit 2 OS=Rattus norvegicus GN=Rfc2 PE=2 SV=1	sp|Q641W4|RFC2_RAT	0.00035
tr|A0A0G2JZ52|A0A0G2JZ52_RAT Protein Hnrnpu OS=Rattus norvegicus GN=Hnrnpu PE=1 SV=1	tr|A0A0G2JZ52|A0A0G2JZ52_RAT (+1)	0.00056
Cluster of tr|D3ZJ08|D3ZJ08_RAT Histone H3 OS=Rattus norvegicus GN=Hist2h3c2 PE=1 SV=1 (tr|D3ZJ08|D3ZJ08_RAT)	tr|D3ZJ08|D3ZJ08_RAT [4]	0.00045
tr|D3ZJ08|D3ZJ08_RAT Histone H3 OS=Rattus norvegicus GN=Hist2h3c2 PE=1 SV=1	tr|D3ZJ08|D3ZJ08_RAT	0.00031
sp|P84245|H33_RAT Histone H3.3 OS=Rattus norvegicus GN=H3f3b PE=1 SV=2	sp|P84245|H33_RAT (+1)	0.00024
sp|Q6LED0|H31_RAT Histone H3.1 OS=Rattus norvegicus PE=1 SV=3	sp|Q6LED0|H31_RAT	0.00017
tr|D3ZP96|D3ZP96_RAT DNA helicase OS=Rattus norvegicus GN=Mcm2 PE=1 SV=2	tr|D3ZP96|D3ZP96_RAT	0.00052
tr|D3ZQM0|D3ZQM0_RAT Protein Sf3a1 OS=Rattus norvegicus GN=Sf3a1 PE=1 SV=1	tr|D3ZQM0|D3ZQM0_RAT	0.00042
tr|D4A5Q2|D4A5Q2_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc2 PE=1 SV=1	tr|D4A5Q2|D4A5Q2_RAT	0.00049
tr|D4A6C5|D4A6C5_RAT Protein Arhgap1 OS=Rattus norvegicus GN=Arhgap1 PE=1 SV=1	tr|D4A6C5|D4A6C5_RAT	0.00038
tr|F1LR10|F1LR10_RAT Epithelial protein lost in neoplasm OS=Rattus norvegicus GN=Lima1 PE=1 SV=2	tr|F1LR10|F1LR10_RAT	0.00038
tr|G3V6T7|G3V6T7_RAT Protein disulfide-isomerase A4 OS=Rattus norvegicus GN=Pdia4 PE=1 SV=1	tr|G3V6T7|G3V6T7_RAT	0.00045
tr|Q5M9H2|Q5M9H2_RAT Acyl-Coenzyme A dehydrogenase, very long chain OS=Rattus norvegicus GN=Acadvl PE=1 SV=1	tr|Q5M9H2|Q5M9H2_RAT	0.00052
sp|B2GV06|SCOT1_RAT Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial OS=Rattus norvegicus GN=Oxct1 PE=1 SV=1	sp|B2GV06|SCOT1_RAT	0.00045
Cluster of sp|P0CC09|H2A2A_RAT Histone H2A type 2-A OS=Rattus norvegicus GN=Hist2h2aa3 PE=1 SV=1 (sp|P0CC09|H2A2A_RAT)	sp|P0CC09|H2A2A_RAT [3]	0.00066
sp|P0CC09|H2A2A_RAT Histone H2A type 2-A OS=Rattus norvegicus GN=Hist2h2aa3 PE=1 SV=1	sp|P0CC09|H2A2A_RAT (+1)	0.00063
tr|M0RCL5|M0RCL5_RAT Histone H2A OS=Rattus norvegicus GN=LOC100910554 PE=1 SV=1	tr|M0RCL5|M0RCL5_RAT	0.00056
sp|P11348|DHPR_RAT Dihydropteridine reductase OS=Rattus norvegicus GN=Qdpr PE=1 SV=1	sp|P11348|DHPR_RAT	0.00045
sp|P52555|ERP29_RAT Endoplasmic reticulum resident protein 29 OS=Rattus norvegicus GN=Erp29 PE=1 SV=2	sp|P52555|ERP29_RAT	0.00042
sp|P62907|RL10A_RAT 60S ribosomal protein L10a OS=Rattus norvegicus GN=Rpl10a PE=1 SV=2	sp|P62907|RL10A_RAT	0.00045
sp|Q3B8Q2|IF4A3_RAT Eukaryotic initiation factor 4A-III OS=Rattus norvegicus GN=Eif4a3 PE=1 SV=1	sp|Q3B8Q2|IF4A3_RAT	0.00042
sp|Q99PF5|FUBP2_RAT Far upstream element-binding protein 2 OS=Rattus norvegicus GN=Khsrp PE=1 SV=1	sp|Q99PF5|FUBP2_RAT (+2)	0.00045
tr|A9CMB8|A9CMB8_RAT DNA helicase OS=Rattus norvegicus GN=Mcm6 PE=1 SV=1	tr|A9CMB8|A9CMB8_RAT	0.00045
tr|D3ZZC1|D3ZZC1_RAT Protein Txndc5 OS=Rattus norvegicus GN=Txndc5 PE=1 SV=1	tr|D3ZZC1|D3ZZC1_RAT	0.00042
tr|E9PU01|E9PU01_RAT Protein Chd4 OS=Rattus norvegicus GN=Chd4 PE=1 SV=3	tr|E9PU01|E9PU01_RAT	0.00038
tr|F1LN59|F1LN59_RAT Protein Eif4g2 OS=Rattus norvegicus GN=Eif4g2 PE=1 SV=2	tr|F1LN59|F1LN59_RAT	0.00049
tr|G3V6L9|G3V6L9_RAT Peptidyl-prolyl cis-trans isomerase OS=Rattus norvegicus GN=Fkbp3 PE=1 SV=1	tr|G3V6L9|G3V6L9_RAT	0.00042
tr|G3V6T1|G3V6T1_RAT Coatomer subunit alpha OS=Rattus norvegicus GN=Copa PE=1 SV=1	tr|G3V6T1|G3V6T1_RAT	0.00056
Cluster of sp|P05708|HXK1_RAT Hexokinase-1 OS=Rattus norvegicus GN=Hk1 PE=1 SV=4 (sp|P05708|HXK1_RAT)	sp|P05708|HXK1_RAT [2]	0.00056
sp|P05708|HXK1_RAT Hexokinase-1 OS=Rattus norvegicus GN=Hk1 PE=1 SV=4	sp|P05708|HXK1_RAT	0.00056
tr|M0RAQ6|M0RAQ6_RAT Hexokinase OS=Rattus norvegicus GN=Hk1 PE=1 SV=2	tr|M0RAQ6|M0RAQ6_RAT	0.00038
sp|P21396|AOFA_RAT Amine oxidase [flavin-containing] A OS=Rattus norvegicus GN=Maoa PE=1 SV=1	sp|P21396|AOFA_RAT (+1)	0.00042
sp|P23358|RL12_RAT 60S ribosomal protein L12 OS=Rattus norvegicus GN=Rpl12 PE=2 SV=1	sp|P23358|RL12_RAT	0.00045
Cluster of sp|P27952|RS2_RAT 40S ribosomal protein S2 OS=Rattus norvegicus GN=Rps2 PE=1 SV=1 (sp|P27952|RS2_RAT)	sp|P27952|RS2_RAT [2]	0.00035
sp|P27952|RS2_RAT 40S ribosomal protein S2 OS=Rattus norvegicus GN=Rps2 PE=1 SV=1	sp|P27952|RS2_RAT (+1)	0.00035
sp|P62898|CYC_RAT Cytochrome c, somatic OS=Rattus norvegicus GN=Cycs PE=1 SV=2	sp|P62898|CYC_RAT (+1)	0.00042
sp|Q5XIN6|LETM1_RAT LETM1 and EF-hand domain-containing protein 1, mitochondrial OS=Rattus norvegicus GN=Letm1 PE=1 SV=1	sp|Q5XIN6|LETM1_RAT	0.00045
sp|Q641Y8|DDX1_RAT ATP-dependent RNA helicase DDX1 OS=Rattus norvegicus GN=Ddx1 PE=1 SV=1	sp|Q641Y8|DDX1_RAT	0.00045
sp|Q68FX0|IDH3B_RAT Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial OS=Rattus norvegicus GN=Idh3B PE=2 SV=1	sp|Q68FX0|IDH3B_RAT	0.00038
sp|Q80Z29|NAMPT_RAT Nicotinamide phosphoribosyltransferase OS=Rattus norvegicus GN=Nampt PE=1 SV=1	sp|Q80Z29|NAMPT_RAT (+1)	0.00035
tr|A0A0G2JTD7|A0A0G2JTD7_RAT Protein Clasp1 OS=Rattus norvegicus GN=Clasp1 PE=1 SV=1	tr|A0A0G2JTD7|A0A0G2JTD7_RAT	0.00063
Cluster of tr|B5DES1|B5DES1_RAT 60S ribosomal protein L23a OS=Rattus norvegicus GN=Rpl23a PE=2 SV=1 (tr|B5DES1|B5DES1_RAT)	tr|B5DES1|B5DES1_RAT [3]	0.00035
tr|B5DES1|B5DES1_RAT 60S ribosomal protein L23a OS=Rattus norvegicus GN=Rpl23a PE=2 SV=1	tr|B5DES1|B5DES1_RAT (+2)	0.00035
tr|D3ZU13|D3ZU13_RAT Protein Eif4g1 OS=Rattus norvegicus GN=Eif4g1 PE=1 SV=1	tr|D3ZU13|D3ZU13_RAT (+1)	0.00052
Cluster of tr|D4A1Q2|D4A1Q2_RAT Microtubule-associated protein OS=Rattus norvegicus GN=Mapt PE=1 SV=1 (tr|D4A1Q2|D4A1Q2_RAT)	tr|D4A1Q2|D4A1Q2_RAT [3]	0.00028
tr|D4A1Q2|D4A1Q2_RAT Microtubule-associated protein OS=Rattus norvegicus GN=Mapt PE=1 SV=1	tr|D4A1Q2|D4A1Q2_RAT (+1)	0.00024
tr|A0JN25|A0JN25_RAT Microtubule-associated protein OS=Rattus norvegicus GN=Mapt PE=1 SV=1	tr|A0JN25|A0JN25_RAT	0.00017
tr|F7DLY1|F7DLY1_RAT Eps8l2 protein OS=Rattus norvegicus GN=Eps8l2 PE=1 SV=2	tr|F7DLY1|F7DLY1_RAT	0.00028
tr|G3V8G2|G3V8G2_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 5 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Psmd5 PE=1 SV	tr|G3V8G2|G3V8G2_RAT	0.00042
tr|Q5FVM2|Q5FVM2_RAT Glucose-6-phosphatase OS=Rattus norvegicus GN=Psme3 PE=1 SV=1	tr|Q5FVM2|Q5FVM2_RAT	0.00038
tr|Q5U2U8|Q5U2U8_RAT Bcl2-associated athanogene 3 OS=Rattus norvegicus GN=Bag3 PE=1 SV=1	tr|Q5U2U8|Q5U2U8_RAT	0.00038

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|Q6P7A7|Q6P7A7_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 OS=Rattus norvegicus GN=Rpn1 PE=1 SV=1	tr|Q6P7A7|Q6P7A7_RAT	0.00052
tr|Q9QX80|Q9QX80_RAT CArG-binding factor A OS=Rattus norvegicus GN=Hnrnpab PE=1 SV=1	tr|Q9QX80|Q9QX80_RAT (+1)	0.00042
sp|B0BN93|PSD13_RAT 26S proteasome non-ATPase regulatory subunit 13 OS=Rattus norvegicus GN=Psmd13 PE=1 SV=1	sp|B0BN93|PSD13_RAT	0.00031
sp|E9PU28|IMDH2_RAT Inosine-5'-monophosphate dehydrogenase 2 OS=Rattus norvegicus GN=Impdh2 PE=1 SV=1	sp|E9PU28|IMDH2_RAT	0.00045
sp|P29314|RS9_RAT 40S ribosomal protein S9 OS=Rattus norvegicus GN=Rps9 PE=1 SV=4	sp|P29314|RS9_RAT	0.00042
Cluster of sp|P31977|EZRI_RAT Ezrin OS=Rattus norvegicus GN=Ezr PE=1 SV=3 (sp|P31977|EZRI_RAT)	sp|P31977|EZRI_RAT [4]	0.00052
sp|P31977|EZRI_RAT Ezrin OS=Rattus norvegicus GN=Ezr PE=1 SV=3	sp|P31977|EZRI_RAT (+1)	0.00038
sp|O35763|MOES_RAT Moesin OS=Rattus norvegicus GN=Msn PE=1 SV=3	sp|O35763|MOES_RAT (+1)	0.00028
sp|P62198|PRS8_RAT 26S protease regulatory subunit 8 OS=Rattus norvegicus GN=Psmc5 PE=1 SV=1	sp|P62198|PRS8_RAT	0.00031
sp|Q60587|ECHB_RAT Trifunctional enzyme subunit beta, mitochondrial OS=Rattus norvegicus GN=Hadhb PE=1 SV=1	sp|Q60587|ECHB_RAT	0.00035
Cluster of sp|Q68FR9|EF1D_RAT Elongation factor 1-delta OS=Rattus norvegicus GN=Eef1d PE=1 SV=2 (sp|Q68FR9|EF1D_RAT)	sp|Q68FR9|EF1D_RAT [2]	0.00045
sp|Q68FR9|EF1D_RAT Elongation factor 1-delta OS=Rattus norvegicus GN=Eef1d PE=1 SV=2	sp|Q68FR9|EF1D_RAT	0.00042
sp|Q68FR9-2|EF1D_RAT Isoform 2 of Elongation factor 1-delta OS=Rattus norvegicus GN=Eef1d	sp|Q68FR9-2|EF1D_RAT	0.00038
sp|Q6P6R2|DLDH_RAT Dihydrolipoyl dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Dld PE=1 SV=1	sp|Q6P6R2|DLDH_RAT	0.00045
tr|A0A0G2JY07|A0A0G2JY07_RAT DNA helicase OS=Rattus norvegicus GN=Mcm5 PE=1 SV=1	tr|A0A0G2JY07|A0A0G2JY07_RAT	0.00056
tr|B1WC16|B1WC16_RAT BCL2-associated transcription factor 1, isoform CRA_a OS=Rattus norvegicus GN=Bclaf1 PE=1 SV=1	tr|B1WC16|B1WC16_RAT	0.00045
tr|D3ZAN3|D3ZAN3_RAT Alpha glucosidase 2 alpha neutral subunit (Predicted) OS=Rattus norvegicus GN=Ganab PE=1 SV=1	tr|D3ZAN3|D3ZAN3_RAT	0.00049
tr|D3ZIE9|D3ZIE9_RAT Protein Aldh18a1 OS=Rattus norvegicus GN=Aldh18a1 PE=3 SV=1	tr|D3ZIE9|D3ZIE9_RAT	0.00052
tr|D3ZZZ9|D3ZZZ9_RAT Catenin (Cadherin associated protein), delta 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Ctnnd1 PE=1 SV=1	tr|D3ZZZ9|D3ZZZ9_RAT	0.00031
Cluster of tr|D4A510|D4A510_RAT Protein Smarcc2 OS=Rattus norvegicus GN=Smarcc2 PE=1 SV=3 (tr|D4A510|D4A510_RAT)	tr|D4A510|D4A510_RAT [3]	0.00035
tr|D4A510|D4A510_RAT Protein Smarcc2 OS=Rattus norvegicus GN=Smarcc2 PE=1 SV=3	tr|D4A510|D4A510_RAT	0.00031
tr|A0A0G2K9D6|A0A0G2K9D6_RAT Protein Smarcc1 OS=Rattus norvegicus GN=Smarcc1 PE=1 SV=1	tr|A0A0G2K9D6|A0A0G2K9D6_RAT (+1)	0.00017
tr|D4AEH3|D4AEH3_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 7 (Predicted) OS=Rattus norvegicus GN=Psmd7 PE=1 SV=1	tr|D4AEH3|D4AEH3_RAT	0.00042
tr|F1M949|F1M949_RAT Protein Ckap5 OS=Rattus norvegicus GN=Ckap5 PE=1 SV=3	tr|F1M949|F1M949_RAT	0.00056
tr|F7EMB2|F7EMB2_RAT Protein RGD1304704 OS=Rattus norvegicus GN=RGD1304704 PE=1 SV=1	tr|F7EMB2|F7EMB2_RAT (+1)	0.00038
tr|Q5PQK2|Q5PQK2_RAT Fusion, derived from t(1216) malignant liposarcoma (Human) OS=Rattus norvegicus GN=Fus PE=1 SV=1	tr|Q5PQK2|Q5PQK2_RAT	0.00042
Cluster of tr|Q6AYU5|Q6AYU5_RAT Poly(RC) binding protein 2 OS=Rattus norvegicus GN=Pcbp2 PE=1 SV=1 (tr|Q6AYU5|Q6AYU5_RAT)	tr|Q6AYU5|Q6AYU5_RAT [2]	0.00059
tr|Q6AYU5|Q6AYU5_RAT Poly(RC) binding protein 2 OS=Rattus norvegicus GN=Pcbp2 PE=1 SV=1	tr|Q6AYU5|Q6AYU5_RAT	0.00056
tr|Q4V8F6|Q4V8F6_RAT Pcbp2 protein OS=Rattus norvegicus GN=Pcbp2 PE=1 SV=1	tr|Q4V8F6|Q4V8F6_RAT	0.00056
sp|F1LP64-2|TRIPC_RAT Isoform 2 of E3 ubiquitin-protein ligase TRIP12 OS=Rattus norvegicus GN=Trip12	sp|F1LP64-2|TRIPC_RAT (+3)	0.00052
sp|P02401|RLA2_RAT 60S acidic ribosomal protein P2 OS=Rattus norvegicus GN=Rplp2 PE=1 SV=2	sp|P02401|RLA2_RAT (+1)	0.00038
Cluster of sp|P17074|RS19_RAT 40S ribosomal protein S19 OS=Rattus norvegicus GN=Rps19 PE=2 SV=3 (sp|P17074|RS19_RAT)	sp|P17074|RS19_RAT [3]	0.00035
sp|P17074|RS19_RAT 40S ribosomal protein S19 OS=Rattus norvegicus GN=Rps19 PE=2 SV=3	sp|P17074|RS19_RAT (+2)	0.00035
sp|P43138|APEX1_RAT DNA-(apurinic or apyrimidinic site) lyase OS=Rattus norvegicus GN=Apex1 PE=1 SV=2	sp|P43138|APEX1_RAT	0.00038
sp|P47860|PFKAP_RAT ATP-dependent 6-phosphofructokinase, platelet type OS=Rattus norvegicus GN=Pfkp PE=1 SV=2	sp|P47860|PFKAP_RAT	0.00052
sp|P61765-2|STXB1_RAT Isoform 2 of Syntaxin-binding protein 1 OS=Rattus norvegicus GN=Stxbp1	sp|P61765-2|STXB1_RAT (+1)	0.00038
sp|P63102|1433Z_RAT 14-3-3 protein zeta/delta OS=Rattus norvegicus GN=Ywhaz PE=1 SV=1	sp|P63102|1433Z_RAT	0.00076
Cluster of sp|Q09167|SRSF5_RAT Serine/arginine-rich splicing factor 5 OS=Rattus norvegicus GN=Srsf5 PE=1 SV=1 (sp|Q09167|SRSF5_RAT)	sp|Q09167|SRSF5_RAT [2]	0.00038
sp|Q09167|SRSF5_RAT Serine/arginine-rich splicing factor 5 OS=Rattus norvegicus GN=Srsf5 PE=1 SV=1	sp|Q09167|SRSF5_RAT	0.00028
sp|G3V6S8|SRSF6_RAT Serine/arginine-rich splicing factor 6 OS=Rattus norvegicus GN=Srsf6 PE=1 SV=1	sp|G3V6S8|SRSF6_RAT	0.00014
sp|Q4G017|NISCH_RAT Nischarin OS=Rattus norvegicus GN=Nisch PE=2 SV=2	sp|Q4G017|NISCH_RAT	0.00049
sp|Q4V7C6|GUAA_RAT GMP synthase [glutamine-hydrolyzing] OS=Rattus norvegicus GN=Gmps PE=1 SV=1	sp|Q4V7C6|GUAA_RAT	0.00038
sp|Q5XHZ0|TRAP1_RAT Heat shock protein 75 kDa, mitochondrial OS=Rattus norvegicus GN=Trap1 PE=1 SV=1	sp|Q5XHZ0|TRAP1_RAT	0.00049
Cluster of sp|Q5XI78|ODO1_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdh PE=1 SV=1 (sp|Q5XI78|ODO1_RAT)	sp|Q5XI78|ODO1_RAT [2]	0.00035
sp|Q5XI78|ODO1_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdh PE=1 SV=1	sp|Q5XI78|ODO1_RAT	0.00031
tr|D3ZQD3|D3ZQD3_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdhl PE=1 SV=2	tr|D3ZQD3|D3ZQD3_RAT	0.0001
sp|Q62952-2|DPYL3_RAT Isoform 2 of Dihydropyrimidinase-related protein 3 OS=Rattus norvegicus GN=Dpysl3	sp|Q62952-2|DPYL3_RAT	0.00056
sp|Q75Q39|TOM70_RAT Mitochondrial import receptor subunit TOM70 OS=Rattus norvegicus GN=Tomm70a PE=1 SV=1	sp|Q75Q39|TOM70_RAT (+1)	0.00038
sp|Q9Z269|VAPB_RAT Vesicle-associated membrane protein-associated protein B OS=Rattus norvegicus GN=Vapb PE=1 SV=3	sp|Q9Z269|VAPB_RAT	0.00042
tr|A0A0G2JUF8|A0A0G2JUF8_RAT DNA topoisomerase 2 OS=Rattus norvegicus GN=Top2a PE=1 SV=1	tr|A0A0G2JUF8|A0A0G2JUF8_RAT	0.00052
tr|B2GUZ3|B2GUZ3_RAT Mthfd1l protein OS=Rattus norvegicus GN=Mthfd1l PE=1 SV=1	tr|B2GUZ3|B2GUZ3_RAT	0.00052
tr|B4F778|B4F778_RAT Protein Rfc4 OS=Rattus norvegicus GN=Rfc4 PE=1 SV=1	tr|B4F778|B4F778_RAT	0.00031
tr|D3ZAI0|D3ZAI0_RAT Protein U2surp OS=Rattus norvegicus GN=U2surp PE=1 SV=1	tr|D3ZAI0|D3ZAI0_RAT	0.00031
tr|D3ZVQ0|D3ZVQ0_RAT Protein Usp5 OS=Rattus norvegicus GN=Usp5 PE=1 SV=1	tr|D3ZVQ0|D3ZVQ0_RAT	0.00042
Cluster of tr|D3ZZ95|D3ZZ95_RAT 60S ribosomal protein L36 OS=Rattus norvegicus GN=LOC100361060 PE=3 SV=1 (tr|D3ZZ95|D3ZZ95_RAT)	tr|D3ZZ95|D3ZZ95_RAT	0.00031
tr|D3ZZ95|D3ZZ95_RAT 60S ribosomal protein L36 OS=Rattus norvegicus GN=LOC100361060 PE=3 SV=1	tr|D3ZZ95|D3ZZ95_RAT	0.00031
tr|D4A1Q9|D4A1Q9_RAT Protein Ttll12 OS=Rattus norvegicus GN=Ttll12 PE=1 SV=1	tr|D4A1Q9|D4A1Q9_RAT	0.00038
tr|G3V640|G3V640_RAT Mitochondrial import inner membrane translocase subunit TIM44 OS=Rattus norvegicus GN=Timm44 PE=1 SV=1	tr|G3V640|G3V640_RAT	0.00045
sp|O08651|SERA_RAT D-3-phosphoglycerate dehydrogenase OS=Rattus norvegicus GN=Phgdh PE=1 SV=3	sp|O08651|SERA_RAT	0.00028
sp|P04182|OAT_RAT Ornithine aminotransferase, mitochondrial OS=Rattus norvegicus GN=Oat PE=1 SV=1	sp|P04182|OAT_RAT	0.00038
sp|P18420|PSA1_RAT Proteasome subunit alpha type-1 OS=Rattus norvegicus GN=Psma1 PE=1 SV=2	sp|P18420|PSA1_RAT	0.00035
sp|P21708-2|MK03_RAT Isoform 2 of Mitogen-activated protein kinase 3 OS=Rattus norvegicus GN=Mapk3	sp|P21708-2|MK03_RAT (+1)	0.00056
sp|P23711|HMOX2_RAT Heme oxygenase 2 OS=Rattus norvegicus GN=Hmox2 PE=1 SV=1	sp|P23711|HMOX2_RAT	0.00035
sp|P47727|CBR1_RAT Carbonyl reductase [NADPH] 1 OS=Rattus norvegicus GN=Cbr1 PE=1 SV=2	sp|P47727|CBR1_RAT	0.00038
sp|P48500|TPIS_RAT Triosephosphate isomerase OS=Rattus norvegicus GN=Tpi1 PE=1 SV=2	sp|P48500|TPIS_RAT	0.00042
sp|P63086|MK01_RAT Mitogen-activated protein kinase 1 OS=Rattus norvegicus GN=Mapk1 PE=1 SV=3	sp|P63086|MK01_RAT	0.00059
sp|P68101|IF2A_RAT Eukaryotic translation initiation factor 2 subunit 1 OS=Rattus norvegicus GN=Eif2s1 PE=1 SV=2	sp|P68101|IF2A_RAT	0.00045
sp|P81795|IF2G_RAT Eukaryotic translation initiation factor 2 subunit 3 OS=Rattus norvegicus GN=Eif2s3 PE=1 SV=2	sp|P81795|IF2G_RAT	0.00028

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q04931|SSRP1_RAT FACT complex subunit SSRP1 OS=Rattus norvegicus GN=Ssrp1 PE=1 SV=2	sp|Q04931|SSRP1_RAT	0.00035
sp|Q3B8Q1|DDX21_RAT Nucleolar RNA helicase 2 OS=Rattus norvegicus GN=Ddx21 PE=2 SV=1	sp|Q3B8Q1|DDX21_RAT	0.00045
sp|Q3SWU3|HNRDL_RAT Heterogeneous nuclear ribonucleoprotein D-like OS=Rattus norvegicus GN=Hnrnpdl PE=1 SV=1	sp|Q3SWU3|HNRDL_RAT (+1)	0.00035
sp|Q5U2Y1-2|GTF2I_RAT Isoform 2 of General transcription factor II-I OS=Rattus norvegicus GN=Gtf2i	sp|Q5U2Y1-2|GTF2I_RAT (+2)	0.00028
sp|Q66HR2|MARE1_RAT Microtubule-associated protein RP/EB family member 1 OS=Rattus norvegicus GN=Mapre1 PE=1 SV=3	sp|Q66HR2|MARE1_RAT	0.00031
sp|Q68FS2|CSN4_RAT COP9 signalosome complex subunit 4 OS=Rattus norvegicus GN=Cops4 PE=1 SV=1	sp|Q68FS2|CSN4_RAT	0.00035
sp|Q6P747|HP1B3_RAT Heterochromatin protein 1-binding protein 3 OS=Rattus norvegicus GN=Hp1bp3 PE=1 SV=1	sp|Q6P747|HP1B3_RAT (+1)	0.00045
sp|Q6TUG0|DJB11_RAT DnaJ homolog subfamily B member 11 OS=Rattus norvegicus GN=Dnajb11 PE=2 SV=1	sp|Q6TUG0|DJB11_RAT	0.00031
sp|Q8K1Q0|NMT1_RAT Glycylpeptide N-tetradecanoyltransferase 1 OS=Rattus norvegicus GN=Nmt1 PE=1 SV=1	sp|Q8K1Q0|NMT1_RAT	0.00045
sp|Q91Y81|SEPT2_RAT Septin-2 OS=Rattus norvegicus GN=Sept2 PE=1 SV=1	sp|Q91Y81|SEPT2_RAT	0.00038
sp|Q9QXU8|DC1L1_RAT Cytoplasmic dynein 1 light intermediate chain 1 OS=Rattus norvegicus GN=Dync1li1 PE=1 SV=1	sp|Q9QXU8|DC1L1_RAT (+1)	0.00031
tr|A0A0G2K402|A0A0G2K402_RAT Protein Myef2 OS=Rattus norvegicus GN=Myef2 PE=1 SV=1	tr|A0A0G2K402|A0A0G2K402_RAT (+1)	0.00031
tr|A0A0G2K502|A0A0G2K502_RAT Malic enzyme OS=Rattus norvegicus GN=Me2 PE=1 SV=1	tr|A0A0G2K502|A0A0G2K502_RAT (+1)	0.00042
tr|A0A0G2K681|A0A0G2K681_RAT Protein Clip1 OS=Rattus norvegicus GN=Clip1 PE=1 SV=1	tr|A0A0G2K681|A0A0G2K681_RAT	0.00052
tr|A0A0G2K6D5|A0A0G2K6D5_RAT Protein Pitrm1 OS=Rattus norvegicus GN=Pitrm1 PE=1 SV=1	tr|A0A0G2K6D5|A0A0G2K6D5_RAT	0.00031
tr|B2GV73|B2GV73_RAT Actin-related protein 2/3 complex subunit 3 OS=Rattus norvegicus GN=Arpc3 PE=1 SV=1	tr|B2GV73|B2GV73_RAT	0.00024
tr|D3ZLC1|D3ZLC1_RAT Protein Lmnb2 OS=Rattus norvegicus GN=Lmnb2 PE=1 SV=2	tr|D3ZLC1|D3ZLC1_RAT	0.00042
tr|F1MAB8|F1MAB8_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif11 PE=1 SV=1	tr|F1MAB8|F1MAB8_RAT	0.00042
tr|F8WFP9|F8WFP9_RAT ERO1-like protein alpha OS=Rattus norvegicus GN=Ero1a PE=1 SV=3	tr|F8WFP9|F8WFP9_RAT	0.00035
tr|G3V7U4|G3V7U4_RAT Lamin-B1 OS=Rattus norvegicus GN=Lmnb1 PE=1 SV=1	tr|G3V7U4|G3V7U4_RAT	0.00038
tr|O70534|O70534_RAT Delta-like 1 homolog (Drosophila) OS=Rattus norvegicus GN=Dlk1 PE=2 SV=1	tr|O70534|O70534_RAT	0.00038
tr|Q4QQV4|Q4QQV4_RAT Dead end homolog 1 (Zebrafish) OS=Rattus norvegicus GN=Hars PE=1 SV=1	tr|Q4QQV4|Q4QQV4_RAT	0.00031
sp|O89044|PRI2_RAT DNA primase large subunit OS=Rattus norvegicus GN=Prim2 PE=2 SV=1	sp|O89044|PRI2_RAT	0.00035
sp|P05765|RS21_RAT 40S ribosomal protein S21 OS=Rattus norvegicus GN=Rps21 PE=1 SV=1	sp|P05765|RS21_RAT (+1)	0.00031
sp|P10960|SAP_RAT Prosaposin OS=Rattus norvegicus GN=Psap PE=1 SV=1	sp|P10960|SAP_RAT (+1)	0.00028
sp|P11240|COX5A_RAT Cytochrome c oxidase subunit 5A, mitochondrial OS=Rattus norvegicus GN=Cox5a PE=1 SV=1	sp|P11240|COX5A_RAT	0.00031
sp|P19511|AT5F1_RAT ATP synthase F(0) complex subunit B1, mitochondrial OS=Rattus norvegicus GN=Atp5f1 PE=1 SV=1	sp|P19511|AT5F1_RAT	0.00031
sp|P19944|RLA1_RAT 60S acidic ribosomal protein P1 OS=Rattus norvegicus GN=Rplp1 PE=3 SV=1	sp|P19944|RLA1_RAT	0.00031
sp|P35213-2|1433B_RAT Isoform Short of 14-3-3 protein beta/alpha OS=Rattus norvegicus GN=Ywhab	sp|P35213-2|1433B_RAT (+1)	0.0008
sp|P50554|GABT_RAT 4-aminobutyrate aminotransferase, mitochondrial OS=Rattus norvegicus GN=Abat PE=1 SV=3	sp|P50554|GABT_RAT	0.00038
sp|P62632|EF1A2_RAT Elongation factor 1-alpha 2 OS=Rattus norvegicus GN=Eef1a2 PE=1 SV=1	sp|P62632|EF1A2_RAT	0.0009
sp|P85972|VINC_RAT Vinculin OS=Rattus norvegicus GN=Vcl PE=1 SV=1	sp|P85972|VINC_RAT (+2)	0.00028
sp|P97629|LCAP_RAT Leucyl-cystinyl aminopeptidase OS=Rattus norvegicus GN=Lnpep PE=1 SV=1	sp|P97629|LCAP_RAT (+3)	0.00035
sp|Q4KLH4|PSPC1_RAT Paraspeckle component 1 OS=Rattus norvegicus GN=Pspc1 PE=1 SV=1	sp|Q4KLH4|PSPC1_RAT (+1)	0.00035
sp|Q5XIE0|AN32E_RAT Acidic leucine-rich nuclear phosphoprotein 32 family member E OS=Rattus norvegicus GN=Anp32e PE=2 SV=1	sp|Q5XIE0|AN32E_RAT	0.00035
sp|Q62950|DPYL1_RAT Dihydropyrimidinase-related protein 1 OS=Rattus norvegicus GN=Crmp1 PE=1 SV=1	sp|Q62950|DPYL1_RAT	0.00049
sp|Q71UF4|RBBP7_RAT Histone-binding protein RBBP7 OS=Rattus norvegicus GN=Rbbp7 PE=2 SV=1	sp|Q71UF4|RBBP7_RAT	0.00056
sp|Q91Y94|COX42_RAT Cytochrome c oxidase subunit 4 isoform 2, mitochondrial OS=Rattus norvegicus GN=Cox4i2 PE=2 SV=1	sp|Q91Y94|COX42_RAT	0.00031
sp|Q9JMJ4|PRP19_RAT Pre-mRNA-processing factor 19 OS=Rattus norvegicus GN=Prpf19 PE=1 SV=2	sp|Q9JMJ4|PRP19_RAT	0.00024
tr|A0A0G2K0X1|A0A0G2K0X1_RAT Protein Pcm1 OS=Rattus norvegicus GN=Pcm1 PE=1 SV=1	tr|A0A0G2K0X1|A0A0G2K0X1_RAT (+1)	0.00031
tr|A0A0G2K5A4|A0A0G2K5A4_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K5A4|A0A0G2K5A4_RAT (+1)	0.00045
tr|A0A0G2K8K0|A0A0G2K8K0_RAT Protein Sfpq OS=Rattus norvegicus GN=Sfpq PE=1 SV=1	tr|A0A0G2K8K0|A0A0G2K8K0_RAT	0.00035
tr|B1WC61|B1WC61_RAT Acad9 protein OS=Rattus norvegicus GN=Acad9 PE=1 SV=1	tr|B1WC61|B1WC61_RAT	0.00038
tr|D3ZPR0|D3ZPR0_RAT Chromosome segregation 1-like (S. cerevisiae) (Predicted) OS=Rattus norvegicus GN=Cse1l PE=1 SV=1	tr|D3ZPR0|D3ZPR0_RAT	0.00045
tr|D4A9D6|D4A9D6_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 9 (Predicted) OS=Rattus norvegicus GN=Dhx9 PE=1 SV=1	tr|D4A9D6|D4A9D6_RAT	0.00045
tr|E9PTR4|E9PTR4_RAT Protein Ubap2l OS=Rattus norvegicus GN=Ubap2l PE=1 SV=2	tr|E9PTR4|E9PTR4_RAT	0.00038
tr|G3V6P6|G3V6P6_RAT RNA binding motif protein 3, isoform CRA_a OS=Rattus norvegicus GN=Rbm3 PE=1 SV=1	tr|G3V6P6|G3V6P6_RAT	0.00024
tr|G3V829|G3V829_RAT Protein Fubp3 OS=Rattus norvegicus GN=Fubp3 PE=1 SV=1	tr|G3V829|G3V829_RAT	0.00038
tr|Q5U1W6|Q5U1W6_RAT Apolipoprotein O-like OS=Rattus norvegicus GN=Apool PE=1 SV=1	tr|Q5U1W6|Q5U1W6_RAT	0.00031
tr|Q6PCU4|Q6PCU4_RAT Emd protein OS=Rattus norvegicus GN=Emd PE=1 SV=1	tr|Q6PCU4|Q6PCU4_RAT	0.00035
tr|Q8R3Z7|Q8R3Z7_RAT EH-domain containing 4 OS=Rattus norvegicus GN=Ehd4 PE=1 SV=1	tr|Q8R3Z7|Q8R3Z7_RAT	0.00042
sp|F1LMZ8|PSD11_RAT 26S proteasome non-ATPase regulatory subunit 11 OS=Rattus norvegicus GN=Psmd11 PE=1 SV=2	sp|F1LMZ8|PSD11_RAT (+1)	0.00049
sp|P0C5H9|MANF_RAT Mesencephalic astrocyte-derived neurotrophic factor OS=Rattus norvegicus GN=Manf PE=1 SV=1	sp|P0C5H9|MANF_RAT	0.00031
sp|P13471|RS14_RAT 40S ribosomal protein S14 OS=Rattus norvegicus GN=Rps14 PE=2 SV=3	sp|P13471|RS14_RAT (+1)	0.00035
sp|P41499|PTN11_RAT Tyrosine-protein phosphatase non-receptor type 11 OS=Rattus norvegicus GN=Ptpn11 PE=1 SV=4	sp|P41499|PTN11_RAT	0.00035
sp|P49134|ITB1_RAT Integrin beta-1 OS=Rattus norvegicus GN=Itgb1 PE=2 SV=1	sp|P49134|ITB1_RAT (+1)	0.00028
sp|P49432|ODPB_RAT Pyruvate dehydrogenase E1 component subunit beta, mitochondrial OS=Rattus norvegicus GN=Pdhb PE=1 SV=2	sp|P49432|ODPB_RAT (+1)	0.00038
sp|P62250|RS16_RAT 40S ribosomal protein S16 OS=Rattus norvegicus GN=Rps16 PE=1 SV=2	sp|P62250|RS16_RAT	0.00038
sp|Q04462|SYVC_RAT Valine--tRNA ligase OS=Rattus norvegicus GN=Vars PE=2 SV=2	sp|Q04462|SYVC_RAT	0.00035
sp|Q63716|PRDX1_RAT Peroxiredoxin-1 OS=Rattus norvegicus GN=Prdx1 PE=1 SV=1	sp|Q63716|PRDX1_RAT (+1)	0.00042
Cluster of sp|Q63803|GNAS1_RAT Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas OS=Rattus norvegicus GN=Gnas PE=1 SV=3 (sp|Q6380	sp|Q63803|GNAS1_RAT [4]	0.00028
sp|Q63803|GNAS1_RAT Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas OS=Rattus norvegicus GN=Gnas PE=1 SV=3	sp|Q63803|GNAS1_RAT	0.00014
sp|P59215|GNAO_RAT Guanine nucleotide-binding protein G(o) subunit alpha OS=Rattus norvegicus GN=Gnao1 PE=1 SV=2	sp|P59215|GNAO_RAT	0.00007
sp|P04897|GNAI2_RAT Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Rattus norvegicus GN=Gnai2 PE=1 SV=3	sp|P04897|GNAI2_RAT	0.00007
sp|P63095|GNAS2_RAT Guanine nucleotide-binding protein G(s) subunit alpha isoforms short OS=Rattus norvegicus GN=Gnas PE=1 SV=1	sp|P63095|GNAS2_RAT	0.00007
sp|Q6AYK6|CYBP_RAT Calcyclin-binding protein OS=Rattus norvegicus GN=Cacybp PE=1 SV=1	sp|Q6AYK6|CYBP_RAT	0.00038
sp|Q6MG61|CLIC1_RAT Chloride intracellular channel protein 1 OS=Rattus norvegicus GN=Clic1 PE=1 SV=1	sp|Q6MG61|CLIC1_RAT	0.00035
sp|Q9JLZ1|GLRX3_RAT Glutaredoxin-3 OS=Rattus norvegicus GN=Glrx3 PE=1 SV=2	sp|Q9JLZ1|GLRX3_RAT	0.00035

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|B1WC34|B1WC34_RAT Protein Prkcsh OS=Rattus norvegicus GN=Prkcsh PE=1 SV=1	tr|B1WC34|B1WC34_RAT	0.00031
tr|B2RZC6|B2RZC6_RAT Ilf2 protein OS=Rattus norvegicus GN=Ilf2 PE=1 SV=1	tr|B2RZC6|B2RZC6_RAT	0.00031
tr|D3ZXP3|D3ZXP3_RAT Histone H2A OS=Rattus norvegicus GN=H2afx PE=1 SV=1	tr|D3ZXP3|D3ZXP3_RAT	0.00056
tr|D4AE02|D4AE02_RAT Protein Fam98b OS=Rattus norvegicus GN=Fam98b PE=1 SV=3	tr|D4AE02|D4AE02_RAT	0.00031
tr|E9PST5|E9PST5_RAT Protein Acin1 OS=Rattus norvegicus GN=Acin1 PE=1 SV=1	tr|E9PST5|E9PST5_RAT	0.00038
tr|F1LQS3|F1LQS3_RAT 60S ribosomal protein L6 OS=Rattus norvegicus GN=Rpl6-ps1 PE=3 SV=1	tr|F1LQS3|F1LQS3_RAT (+1)	0.00038
tr|G3V6H9|G3V6H9_RAT Nucleosome assembly protein 1-like 1 OS=Rattus norvegicus GN=Nap1l1 PE=1 SV=1	tr|G3V6H9|G3V6H9_RAT	0.00042
tr|Q5M9H7|Q5M9H7_RAT DnaJ (Hsp40) homolog, subfamily A, member 2 OS=Rattus norvegicus GN=Dnaja2 PE=1 SV=1	tr|Q5M9H7|Q5M9H7_RAT	0.00038
sp|B0K020|CISD1_RAT CDGSH iron-sulfur domain-containing protein 1 OS=Rattus norvegicus GN=Cisd1 PE=3 SV=1	sp|B0K020|CISD1_RAT	0.00038
sp|B5DFC8|EIF3C_RAT Eukaryotic translation initiation factor 3 subunit C OS=Rattus norvegicus GN=Eif3c PE=1 SV=1	sp|B5DFC8|EIF3C_RAT	0.00038
sp|O35077|GPDA_RAT Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic OS=Rattus norvegicus GN=Gpd1 PE=1 SV=4	sp|O35077|GPDA_RAT	0.00031
sp|O35832|CKD18_RAT Cyclin-dependent kinase 18 OS=Rattus norvegicus GN=Cdk18 PE=1 SV=1	sp|O35832|CKD18_RAT (+1)	0.00035
sp|P04961|PCNA_RAT Proliferating cell nuclear antigen OS=Rattus norvegicus GN=Pcna PE=1 SV=1	sp|P04961|PCNA_RAT	0.00031
sp|P06762|HMOX1_RAT Heme oxygenase 1 OS=Rattus norvegicus GN=Hmox1 PE=1 SV=1	sp|P06762|HMOX1_RAT	0.00028
sp|P30835|PFKAL_RAT ATP-dependent 6-phosphofructokinase, liver type OS=Rattus norvegicus GN=Pfkl PE=1 SV=3	sp|P30835|PFKAL_RAT	0.00035
sp|P45592|COF1_RAT Cofilin-1 OS=Rattus norvegicus GN=Cfl1 PE=1 SV=3	sp|P45592|COF1_RAT	0.00035
sp|P50475|SYAC_RAT Alanine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Aars PE=1 SV=3	sp|P50475|SYAC_RAT	0.00028
sp|P61203|CSN2_RAT COP9 signalosome complex subunit 2 OS=Rattus norvegicus GN=Cops2 PE=1 SV=1	sp|P61203|CSN2_RAT	0.00017
sp|P62083|RS7_RAT 40S ribosomal protein S7 OS=Rattus norvegicus GN=Rps7 PE=1 SV=1	sp|P62083|RS7_RAT	0.00038
sp|P83732|RL24_RAT 60S ribosomal protein L24 OS=Rattus norvegicus GN=Rpl24 PE=2 SV=1	sp|P83732|RL24_RAT	0.00035
sp|P86182|CCD22_RAT Coiled-coil domain-containing protein 22 OS=Rattus norvegicus GN=Ccdc22 PE=1 SV=2	sp|P86182|CCD22_RAT	0.00038
sp|Q05962|ADT1_RAT ADP/ATP translocase 1 OS=Rattus norvegicus GN=Slc25a4 PE=1 SV=3	sp|Q05962|ADT1_RAT (+1)	0.00066
sp|Q5XIE6|HIBCH_RAT 3-hydroxyisobutyryl-CoA hydrolase, mitochondrial OS=Rattus norvegicus GN=Hibch PE=1 SV=2	sp|Q5XIE6|HIBCH_RAT	0.00038
sp|Q5XIH7|PHB2_RAT Prohibitin-2 OS=Rattus norvegicus GN=Phb2 PE=1 SV=1	sp|Q5XIH7|PHB2_RAT (+1)	0.00038
sp|Q62991|SCFD1_RAT Sec1 family domain-containing protein 1 OS=Rattus norvegicus GN=Scfd1 PE=1 SV=1	sp|Q62991|SCFD1_RAT	0.00038
sp|Q6AXS3|DEK_RAT Protein DEK OS=Rattus norvegicus GN=Dek PE=1 SV=1	sp|Q6AXS3|DEK_RAT	0.00031
sp|Q6P7P5|BZW1_RAT Basic leucine zipper and W2 domain-containing protein 1 OS=Rattus norvegicus GN=Bzw1 PE=1 SV=1	sp|Q6P7P5|BZW1_RAT	0.00031
Cluster of sp|Q91V33|KHDR1_RAT KH domain-containing, RNA-binding, signal transduction-associated protein 1 OS=Rattus norvegicus GN=Khdrbs1 PE=1 SV=1	sp|Q91V33|KHDR1_RAT	0.00024
sp|Q91V33|KHDR1_RAT KH domain-containing, RNA-binding, signal transduction-associated protein 1 OS=Rattus norvegicus GN=Khdrbs1 PE=1 SV=1	sp|Q91V33|KHDR1_RAT	0.00024
sp|Q9EPY0|CARD9_RAT Caspase recruitment domain-containing protein 9 OS=Rattus norvegicus GN=Card9 PE=1 SV=1	sp|Q9EPY0|CARD9_RAT	0.00024
sp|Q9JHU5|ARFP1_RAT Arfaptin-1 OS=Rattus norvegicus GN=Arfip1 PE=1 SV=1	sp|Q9JHU5|ARFP1_RAT (+1)	0.00031
sp|Q9JJ54-2|HNRPD_RAT Isoform 2 of Heterogeneous nuclear ribonucleoprotein D0 OS=Rattus norvegicus GN=Hnrnpd	sp|Q9JJ54-2|HNRPD_RAT (+3)	0.00031
sp|Q9WVK7|HCDH_RAT Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Hadh PE=2 SV=1	sp|Q9WVK7|HCDH_RAT	0.00028
tr|A0A0G2JWK8|A0A0G2JWK8_RAT Protein Ewsr1 OS=Rattus norvegicus GN=Ewsr1 PE=1 SV=1	tr|A0A0G2JWK8|A0A0G2JWK8_RAT (+2)	0.00031
tr|A0A0G2JY43|A0A0G2JY43_RAT Fatty aldehyde dehydrogenase OS=Rattus norvegicus GN=Aldh3a2 PE=1 SV=1	tr|A0A0G2JY43|A0A0G2JY43_RAT	0.00038
tr|A0A0G2K051|A0A0G2K051_RAT Protein Eea1 OS=Rattus norvegicus GN=Eea1 PE=1 SV=1	tr|A0A0G2K051|A0A0G2K051_RAT (+1)	0.00028
Cluster of tr|A0A0G2K4X1|A0A0G2K4X1_RAT Protein RT1-A1 OS=Rattus norvegicus GN=RT1-A1 PE=1 SV=1 (tr|A0A0G2K4X1|A0A0G2K4X1_RAT)	tr|A0A0G2K4X1|A0A0G2K4X1_RAT [6]	0.00031
tr|A0A0G2K4X1|A0A0G2K4X1_RAT Protein RT1-A1 OS=Rattus norvegicus GN=RT1-A1 PE=1 SV=1	tr|A0A0G2K4X1|A0A0G2K4X1_RAT (+1)	0.00024
sp|P15978|HA11_RAT Class I histocompatibility antigen, Non-RT1.A alpha-1 chain OS=Rattus norvegicus GN=RT1-Aw2 PE=1 SV=1	sp|P15978|HA11_RAT	0.00014
tr|A0A0G2K8R6|A0A0G2K8R6_RAT Protein RT1-CE12 OS=Rattus norvegicus GN=RT1-CE2 PE=3 SV=1	tr|A0A0G2K8R6|A0A0G2K8R6_RAT (+2)	0.00014
tr|B0BN81|B0BN81_RAT 40S ribosomal protein S5 OS=Rattus norvegicus GN=Rps5 PE=1 SV=1	tr|B0BN81|B0BN81_RAT	0.00035
tr|B2RYP4|B2RYP4_RAT Protein Snx2 OS=Rattus norvegicus GN=Snx2 PE=1 SV=1	tr|B2RYP4|B2RYP4_RAT	0.00028
tr|B2RYR8|B2RYR8_RAT 40S ribosomal protein S8 OS=Rattus norvegicus GN=Rps8 PE=2 SV=1	tr|B2RYR8|B2RYR8_RAT	0.00028
tr|B5DES0|B5DES0_RAT Protein Snrpd2 OS=Rattus norvegicus GN=Snrpd2 PE=1 SV=1	tr|B5DES0|B5DES0_RAT	0.00035
tr|D3ZXH7|D3ZXH7_RAT Protein Alyref OS=Rattus norvegicus GN=Alyref PE=1 SV=1	tr|D3ZXH7|D3ZXH7_RAT	0.00031
tr|D4A4J0|D4A4J0_RAT Protein Supt16h OS=Rattus norvegicus GN=Supt16h PE=1 SV=1	tr|D4A4J0|D4A4J0_RAT	0.00031
tr|F1LT49|F1LT49_RAT Protein Lrrc47 OS=Rattus norvegicus GN=Lrrc47 PE=1 SV=2	tr|F1LT49|F1LT49_RAT	0.00028
tr|Q5BJP4|Q5BJP4_RAT Protein LOC100910882 OS=Rattus norvegicus GN=Rbm39 PE=1 SV=1	tr|Q5BJP4|Q5BJP4_RAT	0.00031
Cluster of tr|Q6AY18|Q6AY18_RAT Protein Ppa1 OS=Rattus norvegicus GN=Sar1a PE=1 SV=1 (tr|Q6AY18|Q6AY18_RAT)	tr|Q6AY18|Q6AY18_RAT [2]	0.00028
tr|Q6AY18|Q6AY18_RAT Protein Ppa1 OS=Rattus norvegicus GN=Sar1a PE=1 SV=1	tr|Q6AY18|Q6AY18_RAT	0.00021
sp|Q5HZY2|SAR1B_RAT GTP-binding protein SAR1b OS=Rattus norvegicus GN=Sar1b PE=2 SV=1	sp|Q5HZY2|SAR1B_RAT	0.00017
tr|Q6P685|Q6P685_RAT Eukaryotic translation initiation factor 2, subunit 2 (Beta) OS=Rattus norvegicus GN=Eif2s2 PE=1 SV=1	tr|Q6P685|Q6P685_RAT	0.00031
sp|O35263|PA1B3_RAT Platelet-activating factor acetylhydrolase IB subunit gamma OS=Rattus norvegicus GN=Pafah1b3 PE=2 SV=1	sp|O35263|PA1B3_RAT	0.00028
sp|P02793|FRIL1_RAT Ferritin light chain 1 OS=Rattus norvegicus GN=Ftl1 PE=1 SV=3	sp|P02793|FRIL1_RAT (+2)	0.00031
sp|P17077|RL9_RAT 60S ribosomal protein L9 OS=Rattus norvegicus GN=Rpl9 PE=1 SV=1	sp|P17077|RL9_RAT (+1)	0.00024
sp|P17220|PSA2_RAT Proteasome subunit alpha type-2 OS=Rattus norvegicus GN=Psma2 PE=1 SV=3	sp|P17220|PSA2_RAT	0.00031
sp|P21913|SDHB_RAT Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial OS=Rattus norvegicus GN=Sdhb PE=2 SV=2	sp|P21913|SDHB_RAT	0.00031
sp|P62832|RL23_RAT 60S ribosomal protein L23 OS=Rattus norvegicus GN=Rpl23 PE=2 SV=1	sp|P62832|RL23_RAT	0.00031
sp|P63036|DNJA1_RAT DnaJ homolog subfamily A member 1 OS=Rattus norvegicus GN=Dnaja1 PE=1 SV=1	sp|P63036|DNJA1_RAT	0.00031
sp|P70580|PGRC1_RAT Membrane-associated progesterone receptor component 1 OS=Rattus norvegicus GN=Pgrmc1 PE=1 SV=3	sp|P70580|PGRC1_RAT	0.00031
sp|Q07009|CAN2_RAT Calpain-2 catalytic subunit OS=Rattus norvegicus GN=Capn2 PE=1 SV=3	sp|Q07009|CAN2_RAT	0.00035
sp|Q4FZT0|STML2_RAT Stomatin-like protein 2, mitochondrial OS=Rattus norvegicus GN=Stoml2 PE=1 SV=1	sp|Q4FZT0|STML2_RAT	0.00031
sp|Q4QQV3|F162A_RAT Protein FAM162A OS=Rattus norvegicus GN=Fam162a PE=2 SV=1	sp|Q4QQV3|F162A_RAT	0.00028
sp|Q5XI97|AASD1_RAT Alanyl-tRNA editing protein Aarsd1 OS=Rattus norvegicus GN=Aarsd1 PE=1 SV=1	sp|Q5XI97|AASD1_RAT	0.00031
sp|Q641X3|HEXA_RAT Beta-hexosaminidase subunit alpha OS=Rattus norvegicus GN=Hexa PE=2 SV=1	sp|Q641X3|HEXA_RAT	0.00017
sp|Q66HC5|NUP93_RAT Nuclear pore complex protein Nup93 OS=Rattus norvegicus GN=Nup93 PE=1 SV=1	sp|Q66HC5|NUP93_RAT	0.00031
sp|Q6P7S1|ASAH1_RAT Acid ceramidase OS=Rattus norvegicus GN=Asah1 PE=2 SV=1	sp|Q6P7S1|ASAH1_RAT (+1)	0.00031
sp|Q6PCU2|VATE1_RAT V-type proton ATPase subunit E 1 OS=Rattus norvegicus GN=Atp6v1e1 PE=1 SV=1	sp|Q6PCU2|VATE1_RAT (+1)	0.00031

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q794E4|HNRPF_RAT Heterogeneous nuclear ribonucleoprotein F OS=Rattus norvegicus GN=Hnrnpf PE=1 SV=3	sp|Q794E4|HNRPF_RAT	0.00045
sp|Q794F9|4F2_RAT 4F2 cell-surface antigen heavy chain OS=Rattus norvegicus GN=Slc3a2 PE=1 SV=1	sp|Q794F9|4F2_RAT (+1)	0.00035
sp|Q9R1T1|BAF_RAT Barrier-to-autointegration factor OS=Rattus norvegicus GN=Banf1 PE=1 SV=1	sp|Q9R1T1|BAF_RAT	0.00024
tr|A0A0G2JU49|A0A0G2JU49_RAT Protein Mtx1 OS=Rattus norvegicus GN=Mtx1 PE=1 SV=1	tr|A0A0G2JU49|A0A0G2JU49_RAT	0.00028
tr|A0A0G2K7E5|A0A0G2K7E5_RAT Voltage-dependent calcium channel subunit alpha-2/delta-1 OS=Rattus norvegicus GN=Cacna2d1 PE=1 SV=1	tr|A0A0G2K7E5|A0A0G2K7E5_RAT (+2)	0.00028
tr|B0BNG3|B0BNG3_RAT Lman2 protein OS=Rattus norvegicus GN=Lman2 PE=1 SV=1	tr|B0BNG3|B0BNG3_RAT	0.00038
Cluster of tr|B5DEK0|B5DEK0_RAT Protein Rprd1b OS=Rattus norvegicus GN=Rprd1b PE=1 SV=1 (tr|B5DEK0|B5DEK0_RAT)	tr|B5DEK0|B5DEK0_RAT [2]	0.00035
tr|B5DEK0|B5DEK0_RAT Protein Rprd1b OS=Rattus norvegicus GN=Rprd1b PE=1 SV=1	tr|B5DEK0|B5DEK0_RAT	0.00028
tr|D4AAU4|D4AAU4_RAT Protein Rprd1a OS=Rattus norvegicus GN=Rprd1a PE=1 SV=1	tr|D4AAU4|D4AAU4_RAT	0.00017
tr|D3ZFQ8|D3ZFQ8_RAT Cytochrome c-1 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Cyc1 PE=1 SV=3	tr|D3ZFQ8|D3ZFQ8_RAT	0.00028
tr|D4A0T0|D4A0T0_RAT Protein Ndufb10 OS=Rattus norvegicus GN=Ndufb10 PE=1 SV=1	tr|D4A0T0|D4A0T0_RAT	0.00031
tr|F1M853|F1M853_RAT Protein Rrbp1 OS=Rattus norvegicus GN=Rrbp1 PE=1 SV=3	tr|F1M853|F1M853_RAT	0.00031
tr|G3V7I7|G3V7I7_RAT Protein Lrrc40 OS=Rattus norvegicus GN=Lrrc40 PE=1 SV=3	tr|G3V7I7|G3V7I7_RAT	0.00031
tr|I6L9G6|I6L9G6_RAT Protein Tardbp OS=Rattus norvegicus GN=Tardbp PE=1 SV=1	tr|I6L9G6|I6L9G6_RAT	0.00028
tr|Q4G079|Q4G079_RAT Protein Aimp1 OS=Rattus norvegicus GN=Aimp1 PE=1 SV=1	tr|Q4G079|Q4G079_RAT	0.00028
tr|Q4V8H5|Q4V8H5_RAT Aspartyl aminopeptidase OS=Rattus norvegicus GN=Dnpep PE=1 SV=1	tr|Q4V8H5|Q4V8H5_RAT	0.00031
tr|Q6AYA2|Q6AYA2_RAT Protein Vrk1 OS=Rattus norvegicus GN=Vrk1 PE=1 SV=1	tr|Q6AYA2|Q6AYA2_RAT	0.00024
sp|O35987|NSF1C_RAT NSFL1 cofactor p47 OS=Rattus norvegicus GN=Nsfl1c PE=1 SV=1	sp|O35987|NSF1C_RAT	0.00021
sp|P07872-2|ACOX1_RAT Isoform 2 of Peroxisomal acyl-coenzyme A oxidase 1 OS=Rattus norvegicus GN=Acox1	sp|P07872-2|ACOX1_RAT (+2)	0.00031
sp|P09034|ASSY_RAT Argininosuccinate synthase OS=Rattus norvegicus GN=Ass1 PE=1 SV=1	sp|P09034|ASSY_RAT	0.00024
sp|P11507|AT2A2_RAT Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 OS=Rattus norvegicus GN=Atp2a2 PE=1 SV=1	sp|P11507|AT2A2_RAT (+1)	0.00045
sp|P18422|PSA3_RAT Proteasome subunit alpha type-3 OS=Rattus norvegicus GN=Psma3 PE=1 SV=3	sp|P18422|PSA3_RAT	0.00035
sp|P35435|ATPG_RAT ATP synthase subunit gamma, mitochondrial OS=Rattus norvegicus GN=Atp5c1 PE=1 SV=2	sp|P35435|ATPG_RAT (+1)	0.00024
sp|P37285-3|KLC1_RAT Isoform B of Kinesin light chain 1 OS=Rattus norvegicus GN=Klc1	sp|P37285-3|KLC1_RAT (+2)	0.00052
Cluster of sp|P61206|ARF3_RAT ADP-ribosylation factor 3 OS=Rattus norvegicus GN=Arf3 PE=2 SV=2 (sp|P61206|ARF3_RAT)	sp|P61206|ARF3_RAT [5]	0.00024
sp|P61206|ARF3_RAT ADP-ribosylation factor 3 OS=Rattus norvegicus GN=Arf3 PE=2 SV=2	sp|P61206|ARF3_RAT (+3)	0.00024
sp|P61751|ARF4_RAT ADP-ribosylation factor 4 OS=Rattus norvegicus GN=Arf4 PE=2 SV=2	sp|P61751|ARF4_RAT	0.000035
sp|P62850-2|RS24_RAT Isoform 2 of 40S ribosomal protein S24 OS=Rattus norvegicus GN=Rps24	sp|P62850-2|RS24_RAT (+4)	0.00028
sp|P97576|GRPE1_RAT GrpE protein homolog 1, mitochondrial OS=Rattus norvegicus GN=Grpel1 PE=1 SV=2	sp|P97576|GRPE1_RAT (+1)	0.00031
sp|Q641Y0|OST48_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Rattus norvegicus GN=Ddost PE=2 SV=1	sp|Q641Y0|OST48_RAT (+1)	0.00031
sp|Q6AY96|T2FA_RAT General transcription factor IIF subunit 1 OS=Rattus norvegicus GN=Gtf2f1 PE=1 SV=1	sp|Q6AY96|T2FA_RAT	0.00031
sp|Q6MG49|BAG6_RAT Large proline-rich protein BAG6 OS=Rattus norvegicus GN=Bag6 PE=1 SV=2	sp|Q6MG49|BAG6_RAT	0.00024
sp|Q6PDU7|ATP5L_RAT ATP synthase subunit g, mitochondrial OS=Rattus norvegicus GN=Atp5l PE=1 SV=2	sp|Q6PDU7|ATP5L_RAT	0.00028
sp|Q920L2|SDHA_RAT Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial OS=Rattus norvegicus GN=Sdha PE=1 SV=1	sp|Q920L2|SDHA_RAT	0.00031
Cluster of tr|A0A0A0MXX0|A0A0A0MXX0_RAT CD2-associated protein OS=Rattus norvegicus GN=Cd2ap PE=1 SV=2 (tr|A0A0A0MXX0|A0A0A0MXX0_RAT)	tr|A0A0A0MXX0|A0A0A0MXX0_RAT	0.00028
tr|A0A0A0MXX0|A0A0A0MXX0_RAT CD2-associated protein OS=Rattus norvegicus GN=Cd2ap PE=1 SV=2	tr|A0A0A0MXX0|A0A0A0MXX0_RAT	0.00028
tr|A0A0G2JSH9|A0A0G2JSH9_RAT Peroxiredoxin-2 OS=Rattus norvegicus GN=Prdx2 PE=1 SV=1	tr|A0A0G2JSH9|A0A0G2JSH9_RAT	0.00028
tr|A0A0G2JVA4|A0A0G2JVA4_RAT Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 OS=Rattus norvegicus GN=Plod2 PE=1 SV=1	tr|A0A0G2JVA4|A0A0G2JVA4_RAT	0.00031
tr|B2RZB7|B2RZB7_RAT Protein Snrpd1 OS=Rattus norvegicus GN=Snrpd1 PE=1 SV=1	tr|B2RZB7|B2RZB7_RAT	0.00028
tr|B5DEN5|B5DEN5_RAT Eukaryotic translation elongation factor 1 beta 2 OS=Rattus norvegicus GN=Eef1b2 PE=1 SV=1	tr|B5DEN5|B5DEN5_RAT	0.00024
Cluster of tr|D3ZCT7|D3ZCT7_RAT Protein Sec23b OS=Rattus norvegicus GN=Sec23b PE=1 SV=2 (tr|D3ZCT7|D3ZCT7_RAT)	tr|D3ZCT7|D3ZCT7_RAT [3]	0.00028
tr|D3ZCT7|D3ZCT7_RAT Protein Sec23b OS=Rattus norvegicus GN=Sec23b PE=1 SV=2	tr|D3ZCT7|D3ZCT7_RAT	0.00024
tr|A0A0G2JZM2|A0A0G2JZM2_RAT Protein Sec23a OS=Rattus norvegicus GN=Sec23a PE=1 SV=1	tr|A0A0G2JZM2|A0A0G2JZM2_RAT (+1)	0.00014
tr|D3ZI68|D3ZI68_RAT PRP31 pre-mRNA processing factor 31 homolog (Yeast) (Predicted) OS=Rattus norvegicus GN=Prpf31 PE=1 SV=1	tr|D3ZI68|D3ZI68_RAT	0.00031
tr|D4AC36|D4AC36_RAT Eukaryotic translation initiation factor 3 subunit F OS=Rattus norvegicus GN=Eif3f PE=1 SV=3	tr|D4AC36|D4AC36_RAT	0.00031
tr|F2Z3T7|F2Z3T7_RAT Protein LOC103694869 OS=Rattus norvegicus GN=LOC103694869 PE=1 SV=1	tr|F2Z3T7|F2Z3T7_RAT	0.00028
Cluster of tr|G3V6S3|G3V6S3_RAT Calumenin OS=Rattus norvegicus GN=Calu PE=1 SV=1 (tr|G3V6S3|G3V6S3_RAT)	tr|G3V6S3|G3V6S3_RAT	0.00031
tr|G3V6S3|G3V6S3_RAT Calumenin OS=Rattus norvegicus GN=Calu PE=1 SV=1	tr|G3V6S3|G3V6S3_RAT	0.00031
tr|G3V7J2|G3V7J2_RAT Interferon-inducible double-stranded RNA-dependent protein kinase activator A OS=Rattus norvegicus GN=Prkra PE=1 SV=1	tr|G3V7J2|G3V7J2_RAT	0.00028
tr|Q6PDW4|Q6PDW4_RAT Proteasome subunit beta type OS=Rattus norvegicus GN=Psmb1 PE=1 SV=1	tr|Q6PDW4|Q6PDW4_RAT	0.00021
sp|P0C0S7|H2AZ_RAT Histone H2A.Z OS=Rattus norvegicus GN=H2afz PE=1 SV=2	sp|P0C0S7|H2AZ_RAT (+2)	0.00042
sp|G3V9R8|HNRPC_RAT Heterogeneous nuclear ribonucleoprotein C OS=Rattus norvegicus GN=Hnrnpc PE=1 SV=2	sp|G3V9R8|HNRPC_RAT (+2)	0.00031
Cluster of sp|O35509|RB11B_RAT Ras-related protein Rab-11B OS=Rattus norvegicus GN=Rab11b PE=1 SV=4 (sp|O35509|RB11B_RAT)	sp|O35509|RB11B_RAT [2]	0.00035
sp|O35509|RB11B_RAT Ras-related protein Rab-11B OS=Rattus norvegicus GN=Rab11b PE=1 SV=4	sp|O35509|RB11B_RAT	0.00031
sp|P62494|RB11A_RAT Ras-related protein Rab-11A OS=Rattus norvegicus GN=Rab11a PE=1 SV=3	sp|P62494|RB11A_RAT	0.00024
sp|P10760|SAHH_RAT Adenosylhomocysteinase OS=Rattus norvegicus GN=Ahcy PE=1 SV=3	sp|P10760|SAHH_RAT	0.00028
sp|P14668|ANXA5_RAT Annexin A5 OS=Rattus norvegicus GN=Anxa5 PE=1 SV=3	sp|P14668|ANXA5_RAT (+1)	0.00024
sp|P21531|RL3_RAT 60S ribosomal protein L3 OS=Rattus norvegicus GN=Rpl3 PE=1 SV=3	sp|P21531|RL3_RAT	0.00035
sp|P41542|USO1_RAT General vesicular transport factor p115 OS=Rattus norvegicus GN=Uso1 PE=1 SV=1	sp|P41542|USO1_RAT	0.00035
sp|P62718|RL18A_RAT 60S ribosomal protein L18a OS=Rattus norvegicus GN=Rpl18a PE=2 SV=1	sp|P62718|RL18A_RAT	0.00024
sp|P68511|1433F_RAT 14-3-3 protein eta OS=Rattus norvegicus GN=Ywhah PE=1 SV=2	sp|P68511|1433F_RAT	0.00066
sp|Q4V8K2|CTBL1_RAT Beta-catenin-like protein 1 OS=Rattus norvegicus GN=Ctnnbl1 PE=1 SV=1	sp|Q4V8K2|CTBL1_RAT	0.00028
sp|Q6AXR4|HEXB_RAT Beta-hexosaminidase subunit beta OS=Rattus norvegicus GN=Hexb PE=2 SV=1	sp|Q6AXR4|HEXB_RAT	0.00028
sp|Q6Q0N1|CNDP2_RAT Cytosolic non-specific dipeptidase OS=Rattus norvegicus GN=Cndp2 PE=1 SV=1	sp|Q6Q0N1|CNDP2_RAT	0.00028
sp|Q9JLA3|UGGG1_RAT UDP-glucose:glycoprotein glucosyltransferase 1 OS=Rattus norvegicus GN=Uggt1 PE=1 SV=2	sp|Q9JLA3|UGGG1_RAT	0.00028
sp|Q9WVC0|SEPT7_RAT Septin-7 OS=Rattus norvegicus GN=Sept7 PE=1 SV=1	sp|Q9WVC0|SEPT7_RAT (+2)	0.00038
sp|Q9Z1W6|LYRIC_RAT Protein LYRIC OS=Rattus norvegicus GN=Mtdh PE=1 SV=2	sp|Q9Z1W6|LYRIC_RAT	0.00028
tr|A0A0G2JUH4|A0A0G2JUH4_RAT Protein Pnkp OS=Rattus norvegicus GN=Pnkp PE=1 SV=1	tr|A0A0G2JUH4|A0A0G2JUH4_RAT (+1)	0.00028

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|B2RYS2|B2RYS2_RAT Cytochrome b-c1 complex subunit 7 OS=Rattus norvegicus GN=Uqcrb PE=1 SV=1	tr|B2RYS2|B2RYS2_RAT	0.00024
tr|B5DF29|B5DF29_RAT Protein Rfc5 OS=Rattus norvegicus GN=Rfc5 PE=1 SV=1	tr|B5DF29|B5DF29_RAT	0.00031
tr|D3ZAZ0|D3ZAZ0_RAT Eukaryotic translation initiation factor 3 subunit M OS=Rattus norvegicus GN=Eif3m PE=1 SV=1	tr|D3ZAZ0|D3ZAZ0_RAT	0.00028
tr|D3ZPD0|D3ZPD0_RAT Protein Ckap2 OS=Rattus norvegicus GN=Ckap2 PE=1 SV=1	tr|D3ZPD0|D3ZPD0_RAT	0.00028
tr|D3ZT01|D3ZT01_RAT Protein Cog2 OS=Rattus norvegicus GN=Cog2 PE=1 SV=1	tr|D3ZT01|D3ZT01_RAT	0.00021
tr|D4A054|D4A054_RAT Protein Ranbp2 OS=Rattus norvegicus GN=Ranbp2 PE=1 SV=2	tr|D4A054|D4A054_RAT (+1)	0.00035
tr|F7F189|F7F189_RAT Ndc80 protein OS=Rattus norvegicus GN=Ndc80 PE=2 SV=2	tr|F7F189|F7F189_RAT	0.00024
tr|G3V6K6|G3V6K6_RAT Epidermal growth factor receptor, isoform CRA_b OS=Rattus norvegicus GN=Egfr PE=1 SV=1	tr|G3V6K6|G3V6K6_RAT	0.00028
tr|M0R7E6|M0R7E6_RAT Protein Srrt OS=Rattus norvegicus GN=Srrt PE=1 SV=2	tr|M0R7E6|M0R7E6_RAT	0.00028
tr|Q5M830|Q5M830_RAT Protein Rfc3 OS=Rattus norvegicus GN=Rfc3 PE=1 SV=1	tr|Q5M830|Q5M830_RAT	0.00017
tr|Q5VLR5|Q5VLR5_RAT BWK4 OS=Rattus norvegicus GN=Erp44 PE=1 SV=1	tr|Q5VLR5|Q5VLR5_RAT	0.00024
tr|Q68FT7|Q68FT7_RAT Phenylalanyl-tRNA synthetase, beta subunit OS=Rattus norvegicus GN=Farsb PE=1 SV=1	tr|Q68FT7|Q68FT7_RAT	0.00031
tr|Q6AY48|Q6AY48_RAT Poly(RC) binding protein 3 OS=Rattus norvegicus GN=Pcbp3 PE=1 SV=1	tr|Q6AY48|Q6AY48_RAT	0.00049
Cluster of tr|R9PY00|R9PY00_RAT Vesicle-associated membrane protein 2 OS=Rattus norvegicus GN=Vamp2 PE=1 SV=2 (tr|R9PY00|R9PY00_RAT)	tr|R9PY00|R9PY00_RAT [2]	0.00035
tr|R9PY00|R9PY00_RAT Vesicle-associated membrane protein 2 OS=Rattus norvegicus GN=Vamp2 PE=1 SV=2	tr|R9PY00|R9PY00_RAT	0.00031
sp|P63025|VAMP3_RAT Vesicle-associated membrane protein 3 OS=Rattus norvegicus GN=Vamp3 PE=1 SV=1	sp|P63025|VAMP3_RAT	0.00021
sp|Q6PDU1|SRSF2_RAT Serine/arginine-rich splicing factor 2 OS=Rattus norvegicus GN=Srsf2 PE=1 SV=3	sp|Q6PDU1|SRSF2_RAT	0.00021
sp|A0JPM9|EIF3J_RAT Eukaryotic translation initiation factor 3 subunit J OS=Rattus norvegicus GN=Eif3j PE=1 SV=1	sp|A0JPM9|EIF3J_RAT	0.00024
sp|O35162|HSP13_RAT Heat shock 70 kDa protein 13 OS=Rattus norvegicus GN=Hspa13 PE=2 SV=2	sp|O35162|HSP13_RAT (+1)	0.00028
sp|O35796|C1QBP_RAT Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Rattus norvegicus GN=C1qbp PE=1 SV=2	sp|O35796|C1QBP_RAT	0.00035
sp|P08461|ODP2_RAT Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial OS=Rattus norvegicus GN	sp|P08461|ODP2_RAT	0.00028
sp|P11915|NLTP_RAT Non-specific lipid-transfer protein OS=Rattus norvegicus GN=Scp2 PE=1 SV=3	sp|P11915|NLTP_RAT (+1)	0.00028
sp|P15650|ACADL_RAT Long-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Acadl PE=1 SV=1	sp|P15650|ACADL_RAT	0.00024
sp|P41123|RL13_RAT 60S ribosomal protein L13 OS=Rattus norvegicus GN=Rpl13 PE=1 SV=2	sp|P41123|RL13_RAT (+1)	0.00021
sp|P47875|CSRP1_RAT Cysteine and glycine-rich protein 1 OS=Rattus norvegicus GN=Csrp1 PE=1 SV=2	sp|P47875|CSRP1_RAT	0.00031
sp|P49791|NU153_RAT Nuclear pore complex protein Nup153 OS=Rattus norvegicus GN=Nup153 PE=1 SV=1	sp|P49791|NU153_RAT (+1)	0.00028
sp|P55770|NH2L1_RAT NHP2-like protein 1 OS=Rattus norvegicus GN=Snu13 PE=2 SV=4	sp|P55770|NH2L1_RAT	0.00028
sp|P61314|RL15_RAT 60S ribosomal protein L15 OS=Rattus norvegicus GN=Rpl15 PE=1 SV=2	sp|P61314|RL15_RAT	0.00031
sp|P84039|ENPP5_RAT Ectonucleotide pyrophosphatase/phosphodiesterase family member 5 OS=Rattus norvegicus GN=Enpp5 PE=1 SV=2	sp|P84039|ENPP5_RAT	0.00017
sp|Q32PX7|FUBP1_RAT Far upstream element-binding protein 1 OS=Rattus norvegicus GN=Fubp1 PE=1 SV=1	sp|Q32PX7|FUBP1_RAT	0.00031
sp|Q3KRD5|TOM34_RAT Mitochondrial import receptor subunit TOM34 OS=Rattus norvegicus GN=Tomm34 PE=1 SV=1	sp|Q3KRD5|TOM34_RAT	0.00031
sp|Q4KM49|SYYC_RAT Tyrosine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Yars PE=2 SV=3	sp|Q4KM49|SYYC_RAT (+1)	0.00021
sp|Q5FVM4|NONO_RAT Non-POU domain-containing octamer-binding protein OS=Rattus norvegicus GN=Nono PE=1 SV=3	sp|Q5FVM4|NONO_RAT	0.00024
sp|Q5M7W5|MAP4_RAT Microtubule-associated protein 4 OS=Rattus norvegicus GN=Map4 PE=1 SV=1	sp|Q5M7W5|MAP4_RAT	0.00028
sp|Q5PQX1-3|TOIP1_RAT Isoform 3 of Torsin-1A-interacting protein 1 OS=Rattus norvegicus GN=Tor1aip1	sp|Q5PQX1-3|TOIP1_RAT (+1)	0.00021
sp|Q5RK09|EIF3G_RAT Eukaryotic translation initiation factor 3 subunit G OS=Rattus norvegicus GN=Eif3g PE=1 SV=1	sp|Q5RK09|EIF3G_RAT	0.00028
sp|Q5XIP6|FEN1_RAT Flap endonuclease 1 OS=Rattus norvegicus GN=Fen1 PE=2 SV=1	sp|Q5XIP6|FEN1_RAT	0.00021
sp|Q62636|RAP1B_RAT Ras-related protein Rap-1b OS=Rattus norvegicus GN=Rap1b PE=1 SV=2	sp|Q62636|RAP1B_RAT	0.00024
sp|Q68FQ7|RPAP3_RAT RNA polymerase II-associated protein 3 OS=Rattus norvegicus GN=Rpap3 PE=1 SV=1	sp|Q68FQ7|RPAP3_RAT	0.00024
sp|Q8VIL3|ZWINT_RAT ZW10 interactor OS=Rattus norvegicus GN=Zwint PE=1 SV=1	sp|Q8VIL3|ZWINT_RAT	0.00028
sp|Q99N27|SNX1_RAT Sorting nexin-1 OS=Rattus norvegicus GN=Snx1 PE=1 SV=1	sp|Q99N27|SNX1_RAT	0.00024
sp|Q9EQS0|TALDO_RAT Transaldolase OS=Rattus norvegicus GN=Taldo1 PE=1 SV=2	sp|Q9EQS0|TALDO_RAT	0.00014
sp|Q9JIL3-2|ILF3_RAT Isoform 2 of Interleukin enhancer-binding factor 3 OS=Rattus norvegicus GN=Ilf3	sp|Q9JIL3-2|ILF3_RAT (+4)	0.00035
tr|A0A0G2JTA0|A0A0G2JTA0_RAT FAS-associated factor 2 OS=Rattus norvegicus GN=Faf2 PE=1 SV=1	tr|A0A0G2JTA0|A0A0G2JTA0_RAT	0.00028
tr|B0K030|B0K030_RAT DnaJ (Hsp40) homolog, subfamily B, member 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Dnajb1 PE=1 SV=1	tr|B0K030|B0K030_RAT	0.00024
Cluster of tr|B2GV01|B2GV01_RAT Metastasis-associated gene family, member 2 OS=Rattus norvegicus GN=Mta2 PE=1 SV=1 (tr|B2GV01|B2GV01_RAT)	tr|B2GV01|B2GV01_RAT [5]	0.00021
tr|B2GV01|B2GV01_RAT Metastasis-associated gene family, member 2 OS=Rattus norvegicus GN=Mta2 PE=1 SV=1	tr|B2GV01|B2GV01_RAT	0.00017
tr|A0A0G2JTK6|A0A0G2JTK6_RAT Protein Mta3 OS=Rattus norvegicus GN=Mta3 PE=1 SV=1	tr|A0A0G2JTK6|A0A0G2JTK6_RAT (+1)	0.00007
sp|Q62599|MTA1_RAT Metastasis-associated protein MTA1 OS=Rattus norvegicus GN=Mta1 PE=1 SV=1	sp|Q62599|MTA1_RAT (+1)	0.000035
tr|B4F774|B4F774_RAT Ganglioside-induced differentiation-associated protein 1-like 1 (Predicted) OS=Rattus norvegicus GN=Gdap1l1 PE=2 SV=1	tr|B4F774|B4F774_RAT	0.00024
tr|B5DFI9|B5DFI9_RAT Pdk3 protein OS=Rattus norvegicus GN=Pdk3 PE=2 SV=1	tr|B5DFI9|B5DFI9_RAT	0.00021
tr|D3ZA84|D3ZA84_RAT Protein Tln2 OS=Rattus norvegicus GN=Tln2 PE=1 SV=3	tr|D3ZA84|D3ZA84_RAT	0.00038
tr|D3ZM21|D3ZM21_RAT Catechol-O-methyltransferase domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Comtd1 PE=1 SV=1	tr|D3ZM21|D3ZM21_RAT	0.00024
tr|D3ZUV3|D3ZUV3_RAT Eukaryotic translation initiation factor 2 subunit 1 OS=Rattus norvegicus GN=Eif2a PE=1 SV=3	tr|D3ZUV3|D3ZUV3_RAT	0.00024
tr|D4A031|D4A031_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 42 (Predicted) OS=Rattus norvegicus GN=Ddx42 PE=1 SV=1	tr|D4A031|D4A031_RAT	0.00024
tr|D4A7R0|D4A7R0_RAT Signal recognition particle subunit SRP72 OS=Rattus norvegicus GN=Srp72 PE=1 SV=2	tr|D4A7R0|D4A7R0_RAT	0.00024
tr|D4A8G7|D4A8G7_RAT Protein Snw1 OS=Rattus norvegicus GN=Snw1 PE=1 SV=1	tr|D4A8G7|D4A8G7_RAT	0.00007
tr|E9PT66|E9PT66_RAT Protein Sf3b3 OS=Rattus norvegicus GN=Sf3b3 PE=1 SV=2	tr|E9PT66|E9PT66_RAT	0.00035
tr|F1LQ48|F1LQ48_RAT Protein Fblim1 OS=Rattus norvegicus GN=Hnrnpl PE=1 SV=2	tr|F1LQ48|F1LQ48_RAT	0.00028
tr|G3V679|G3V679_RAT Transferrin receptor protein 1 OS=Rattus norvegicus GN=Tfrc PE=1 SV=1	tr|G3V679|G3V679_RAT	0.00024
tr|Q4KM87|Q4KM87_RAT Actin-like 6A OS=Rattus norvegicus GN=Actl6a PE=1 SV=1	tr|Q4KM87|Q4KM87_RAT	0.00021
tr|Q6P9V6|Q6P9V6_RAT Proteasome subunit alpha type OS=Rattus norvegicus GN=Psma5 PE=1 SV=1	tr|Q6P9V6|Q6P9V6_RAT	0.00024
tr|Q6P9V7|Q6P9V7_RAT Proteasome (Prosome, macropain) activator subunit 1 OS=Rattus norvegicus GN=Psme1 PE=1 SV=1	tr|Q6P9V7|Q6P9V7_RAT	0.00021
Cluster of tr|D3Z9G3|D3Z9G3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1 (tr|D3Z9G3|D3Z9G3_RAT)	tr|D3Z9G3|D3Z9G3_RAT [3]	0.00021
tr|D3Z9G3|D3Z9G3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|D3Z9G3|D3Z9G3_RAT (+2)	0.00021
sp|O88989|MDHC_RAT Malate dehydrogenase, cytoplasmic OS=Rattus norvegicus GN=Mdh1 PE=1 SV=3	sp|O88989|MDHC_RAT	0.00024
sp|P00787|CATB_RAT Cathepsin B OS=Rattus norvegicus GN=Ctsb PE=1 SV=2	sp|P00787|CATB_RAT (+1)	0.00021
sp|P01830|THY1_RAT Thy-1 membrane glycoprotein OS=Rattus norvegicus GN=Thy1 PE=1 SV=1	sp|P01830|THY1_RAT	0.00028

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|P17078|RL35_RAT 60S ribosomal protein L35 OS=Rattus norvegicus GN=Rpl35 PE=1 SV=3	sp|P17078|RL35_RAT	0.00028
sp|P20069|MPPA_RAT Mitochondrial-processing peptidase subunit alpha OS=Rattus norvegicus GN=Pmpca PE=1 SV=1	sp|P20069|MPPA_RAT (+2)	0.00021
sp|P20673|ARLY_RAT Argininosuccinate lyase OS=Rattus norvegicus GN=Asl PE=2 SV=1	sp|P20673|ARLY_RAT (+1)	0.00021
sp|P27653|C1TC_RAT C-1-tetrahydrofolate synthase, cytoplasmic OS=Rattus norvegicus GN=Mthfd1 PE=1 SV=3	sp|P27653|C1TC_RAT (+1)	0.00028
sp|P29147|BDH_RAT D-beta-hydroxybutyrate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Bdh1 PE=1 SV=2	sp|P29147|BDH_RAT (+1)	0.00021
sp|P38062|MAP2_RAT Methionine aminopeptidase 2 OS=Rattus norvegicus GN=Metap2 PE=1 SV=2	sp|P38062|MAP2_RAT	0.00021
sp|P41562|IDHC_RAT Isocitrate dehydrogenase [NADP] cytoplasmic OS=Rattus norvegicus GN=Idh1 PE=1 SV=1	sp|P41562|IDHC_RAT	0.00024
sp|P62246|RS15A_RAT 40S ribosomal protein S15a OS=Rattus norvegicus GN=Rps15a PE=1 SV=2	sp|P62246|RS15A_RAT (+1)	0.00017
sp|P62755|RS6_RAT 40S ribosomal protein S6 OS=Rattus norvegicus GN=Rps6 PE=1 SV=1	sp|P62755|RS6_RAT (+1)	0.00024
sp|P62890|RL30_RAT 60S ribosomal protein L30 OS=Rattus norvegicus GN=Rpl30 PE=3 SV=2	sp|P62890|RL30_RAT	0.00014
sp|Q07266-2|DREB_RAT Isoform E1 of Drebrin OS=Rattus norvegicus GN=Dbn1	sp|Q07266-2|DREB_RAT	0.00017
sp|Q3ZU82|GOGA5_RAT Golgin subfamily A member 5 OS=Rattus norvegicus GN=Golga5 PE=1 SV=1	sp|Q3ZU82|GOGA5_RAT (+1)	0.00021
sp|Q498U4|SARNP_RAT SAP domain-containing ribonucleoprotein OS=Rattus norvegicus GN=Sarnp PE=1 SV=3	sp|Q498U4|SARNP_RAT	0.00024
sp|Q5BK63|NDUA9_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial OS=Rattus norvegicus GN=Ndufa9 PE=1 SV=2	sp|Q5BK63|NDUA9_RAT	0.00021
sp|Q5U2U0|CLPX_RAT ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial OS=Rattus norvegicus GN=Clpx PE=2 SV=1	sp|Q5U2U0|CLPX_RAT	0.00028
sp|Q5XI63|KIFC1_RAT Kinesin-like protein KIFC1 OS=Rattus norvegicus GN=Kifc1 PE=2 SV=1	sp|Q5XI63|KIFC1_RAT	0.00031
sp|Q5XIW8|SNUT1_RAT U4/U6.U5 tri-snRNP-associated protein 1 OS=Rattus norvegicus GN=Sart1 PE=1 SV=1	sp|Q5XIW8|SNUT1_RAT	0.00021
sp|Q63347|PRS7_RAT 26S protease regulatory subunit 7 OS=Rattus norvegicus GN=Psmc2 PE=1 SV=3	sp|Q63347|PRS7_RAT (+1)	0.00024
sp|Q66HA8|HS105_RAT Heat shock protein 105 kDa OS=Rattus norvegicus GN=Hsph1 PE=1 SV=1	sp|Q66HA8|HS105_RAT	0.00021
Cluster of sp|Q6AY23|P5CR2_RAT Pyrroline-5-carboxylate reductase 2 OS=Rattus norvegicus GN=Pycr2 PE=2 SV=1 (sp|Q6AY23|P5CR2_RAT)	sp|Q6AY23|P5CR2_RAT [2]	0.00021
sp|Q6AY23|P5CR2_RAT Pyrroline-5-carboxylate reductase 2 OS=Rattus norvegicus GN=Pycr2 PE=2 SV=1	sp|Q6AY23|P5CR2_RAT	0.00021
tr|D3ZXI0|D3ZXI0_RAT Pyrroline-5-carboxylate reductase OS=Rattus norvegicus GN=Pycr1 PE=3 SV=2	tr|D3ZXI0|D3ZXI0_RAT	0.00007
sp|Q8CFC1|MINA_RAT Bifunctional lysine-specific demethylase and histidyl-hydroxylase MINA OS=Rattus norvegicus GN=Mina PE=2 SV=1	sp|Q8CFC1|MINA_RAT	0.00024
sp|Q9JK11|RTN4_RAT Reticulon-4 OS=Rattus norvegicus GN=Rtn4 PE=1 SV=1	sp|Q9JK11|RTN4_RAT (+1)	0.00028
sp|Q9R063-2|PRDX5_RAT Isoform Cytoplasmic+peroxisomal of Peroxiredoxin-5, mitochondrial OS=Rattus norvegicus GN=Prdx5	sp|Q9R063-2|PRDX5_RAT (+2)	0.00028
tr|A0A0F7RQL3|A0A0F7RQL3_RAT Macrophage migration inhibitory factor OS=Rattus norvegicus GN=Mif PE=1 SV=1	tr|A0A0F7RQL3|A0A0F7RQL3_RAT	0.00021
tr|A0A0G2JVL6|A0A0G2JVL6_RAT NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, 8 OS=Rattus norvegicus GN=Ndufa8 PE=1 SV=1	tr|A0A0G2JVL6|A0A0G2JVL6_RAT	0.00024
tr|A0A0G2JZH0|A0A0G2JZH0_RAT Protein Cab39 OS=Rattus norvegicus GN=Cab39 PE=1 SV=1	tr|A0A0G2JZH0|A0A0G2JZH0_RAT	0.00028
tr|A0A0G2K459|A0A0G2K459_RAT Protein Mtch2 OS=Rattus norvegicus GN=Mtch2 PE=1 SV=1	tr|A0A0G2K459|A0A0G2K459_RAT	0.00024
Cluster of tr|B0BNK1|B0BNK1_RAT Protein Rab5c OS=Rattus norvegicus GN=Rab5c PE=1 SV=1 (tr|B0BNK1|B0BNK1_RAT)	tr|B0BNK1|B0BNK1_RAT [3]	0.00017
tr|B0BNK1|B0BNK1_RAT Protein Rab5c OS=Rattus norvegicus GN=Rab5c PE=1 SV=1	tr|B0BNK1|B0BNK1_RAT	0.00014
sp|M0RC99|RAB5A_RAT Ras-related protein Rab-5A OS=Rattus norvegicus GN=Rab5a PE=2 SV=1	sp|M0RC99|RAB5A_RAT	0.0001
tr|A1L1J8|A1L1J8_RAT Protein Rab5b OS=Rattus norvegicus GN=Rab5b PE=1 SV=1	tr|A1L1J8|A1L1J8_RAT	0.00007
tr|B5DEZ4|B5DEZ4_RAT Protein Tcerg1 OS=Rattus norvegicus GN=Tcerg1 PE=1 SV=1	tr|B5DEZ4|B5DEZ4_RAT (+1)	0.00028
tr|D3ZA78|D3ZA78_RAT Protein Tpx2 OS=Rattus norvegicus GN=Tpx2 PE=1 SV=1	tr|D3ZA78|D3ZA78_RAT	0.00028
tr|D3ZAY8|D3ZAY8_RAT Protein Pnn OS=Rattus norvegicus GN=Pnn PE=1 SV=1	tr|D3ZAY8|D3ZAY8_RAT	0.00024
tr|D3ZZ38|D3ZZ38_RAT Sorting nexin OS=Rattus norvegicus GN=Snx18 PE=1 SV=1	tr|D3ZZ38|D3ZZ38_RAT	0.00014
tr|F1LM47|F1LM47_RAT Succinyl-CoA ligase subunit beta OS=Rattus norvegicus GN=Sucla2 PE=1 SV=1	tr|F1LM47|F1LM47_RAT	0.00028
tr|F1LNY0|F1LNY0_RAT Hypoxanthine-guanine phosphoribosyltransferase OS=Rattus norvegicus GN=Hprt1 PE=1 SV=3	tr|F1LNY0|F1LNY0_RAT	0.00021
tr|F1M446|F1M446_RAT Protein AI314180 OS=Rattus norvegicus GN=AI314180 PE=1 SV=3	tr|F1M446|F1M446_RAT	0.00031
tr|F1M9Q8|F1M9Q8_RAT Alkyldihydroxyacetonephosphate synthase, peroxisomal OS=Rattus norvegicus GN=Agps PE=1 SV=3	tr|F1M9Q8|F1M9Q8_RAT	0.00028
tr|G3V644|G3V644_RAT NADH dehydrogenase (Ubiquinone) flavoprotein 3-like, isoform CRA_a OS=Rattus norvegicus GN=Ndufv3 PE=1 SV=1	tr|G3V644|G3V644_RAT	0.00021
tr|Q5RKG9|Q5RKG9_RAT Eukaryotic translation initiation factor 4B OS=Rattus norvegicus GN=Eif4b PE=1 SV=1	tr|Q5RKG9|Q5RKG9_RAT	0.00017
sp|P62859|RS28_RAT 40S ribosomal protein S28 OS=Rattus norvegicus GN=Rps28 PE=1 SV=1	sp|P62859|RS28_RAT	0.00024
sp|A0JPJ7|OLA1_RAT Obg-like ATPase 1 OS=Rattus norvegicus GN=Ola1 PE=2 SV=1	sp|A0JPJ7|OLA1_RAT	0.00021
Cluster of sp|B3GNI6-2|SEP11_RAT Isoform 2 of Septin-11 OS=Rattus norvegicus GN=Sept11 (sp|B3GNI6-2|SEP11_RAT)	sp|B3GNI6-2|SEP11_RAT [4]	0.00035
sp|B3GNI6-2|SEP11_RAT Isoform 2 of Septin-11 OS=Rattus norvegicus GN=Sept11	sp|B3GNI6-2|SEP11_RAT (+3)	0.00035
sp|O35964|SH3G1_RAT Endophilin-A2 OS=Rattus norvegicus GN=Sh3gl1 PE=1 SV=1	sp|O35964|SH3G1_RAT	0.00021
sp|O88370|PI42C_RAT Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma OS=Rattus norvegicus GN=Pip4k2c PE=1 SV=1	sp|O88370|PI42C_RAT (+1)	0.00021
sp|O88775|EMB_RAT Embigin OS=Rattus norvegicus GN=Emb PE=1 SV=1	sp|O88775|EMB_RAT	0.00017
sp|P0C2X9|AL4A1_RAT Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh4a1 PE=1 SV=1	sp|P0C2X9|AL4A1_RAT (+3)	0.00017
sp|P12007|IVD_RAT Isovaleryl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ivd PE=1 SV=2	sp|P12007|IVD_RAT	0.00017
sp|P12368|KAP2_RAT cAMP-dependent protein kinase type II-alpha regulatory subunit OS=Rattus norvegicus GN=Prkar2a PE=1 SV=3	sp|P12368|KAP2_RAT (+1)	0.00021
sp|P41777|NOLC1_RAT Nucleolar and coiled-body phosphoprotein 1 OS=Rattus norvegicus GN=Nolc1 PE=1 SV=1	sp|P41777|NOLC1_RAT (+1)	0.00024
sp|P51583|PUR6_RAT Multifunctional protein ADE2 OS=Rattus norvegicus GN=Paics PE=1 SV=3	sp|P51583|PUR6_RAT	0.00017
sp|P61354|RL27_RAT 60S ribosomal protein L27 OS=Rattus norvegicus GN=Rpl27 PE=2 SV=2	sp|P61354|RL27_RAT	0.00024
sp|P62193|PRS4_RAT 26S protease regulatory subunit 4 OS=Rattus norvegicus GN=Psmc1 PE=2 SV=1	sp|P62193|PRS4_RAT	0.00028
sp|P62919|RL8_RAT 60S ribosomal protein L8 OS=Rattus norvegicus GN=Rpl8 PE=2 SV=2	sp|P62919|RL8_RAT	0.00024
sp|P83888|TBG1_RAT Tubulin gamma-1 chain OS=Rattus norvegicus GN=Tubg1 PE=2 SV=1	sp|P83888|TBG1_RAT	0.00014
sp|P97532|THTM_RAT 3-mercaptopyruvate sulfurtransferase OS=Rattus norvegicus GN=Mpst PE=1 SV=3	sp|P97532|THTM_RAT	0.00024
sp|P97571|CAN1_RAT Calpain-1 catalytic subunit OS=Rattus norvegicus GN=Capn1 PE=1 SV=1	sp|P97571|CAN1_RAT (+1)	0.00028
sp|P97852|DHB4_RAT Peroxisomal multifunctional enzyme type 2 OS=Rattus norvegicus GN=Hsd17b4 PE=1 SV=3	sp|P97852|DHB4_RAT (+1)	0.00021
sp|Q02874-2|H2AY_RAT Isoform 1 of Core histone macro-H2A.1 OS=Rattus norvegicus GN=H2afy	sp|Q02874-2|H2AY_RAT (+1)	0.00031
sp|Q09073|ADT2_RAT ADP/ATP translocase 2 OS=Rattus norvegicus GN=Slc25a5 PE=1 SV=3	sp|Q09073|ADT2_RAT	0.00059
sp|Q4G061|EIF3B_RAT Eukaryotic translation initiation factor 3 subunit B OS=Rattus norvegicus GN=Eif3b PE=1 SV=1	sp|Q4G061|EIF3B_RAT	0.00021
sp|Q5M7U6|ARP2_RAT Actin-related protein 2 OS=Rattus norvegicus GN=Actr2 PE=2 SV=1	sp|Q5M7U6|ARP2_RAT	0.00017
sp|Q5M7V8|TR150_RAT Thyroid hormone receptor-associated protein 3 OS=Rattus norvegicus GN=Thrap3 PE=1 SV=1	sp|Q5M7V8|TR150_RAT	0.00024
sp|Q5U2U2|CRKL_RAT Crk-like protein OS=Rattus norvegicus GN=Crkl PE=1 SV=1	sp|Q5U2U2|CRKL_RAT	0.00021

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q5U2Z3|NP1L4_RAT Nucleosome assembly protein 1-like 4 OS=Rattus norvegicus GN=Nap1l4 PE=1 SV=1	sp|Q5U2Z3|NP1L4_RAT (+1)	0.00024
sp|Q63584|TMEDA_RAT Transmembrane emp24 domain-containing protein 10 OS=Rattus norvegicus GN=Tmed10 PE=1 SV=2	sp|Q63584|TMEDA_RAT	0.00021
sp|Q68A21|PURB_RAT Transcriptional activator protein Pur-beta OS=Rattus norvegicus GN=Purb PE=1 SV=3	sp|Q68A21|PURB_RAT (+1)	0.00014
sp|Q6AYB5|SRP54_RAT Signal recognition particle 54 kDa protein OS=Rattus norvegicus GN=Srp54 PE=2 SV=1	sp|Q6AYB5|SRP54_RAT	0.00024
sp|Q6QI89|MO4L2_RAT Mortality factor 4-like protein 2 OS=Rattus norvegicus GN=Morf4l2 PE=2 SV=1	sp|Q6QI89|MO4L2_RAT	0.00024
sp|Q920J4|TXNL1_RAT Thioredoxin-like protein 1 OS=Rattus norvegicus GN=Txnl1 PE=1 SV=3	sp|Q920J4|TXNL1_RAT (+1)	0.00021
sp|Q9EPF2-2|MUC18_RAT Isoform 2 of Cell surface glycoprotein MUC18 OS=Rattus norvegicus GN=Mcam	sp|Q9EPF2-2|MUC18_RAT (+1)	0.00021
sp|Q9QUR2-2|DCTN4_RAT Isoform 2 of Dynactin subunit 4 OS=Rattus norvegicus GN=Dctn4	sp|Q9QUR2-2|DCTN4_RAT (+1)	0.00031
tr|A0A0G2K0W9|A0A0G2K0W9_RAT Proteasome subunit alpha type OS=Rattus norvegicus GN=Psma7 PE=1 SV=1	tr|A0A0G2K0W9|A0A0G2K0W9_RAT	0.00024
Cluster of tr|A0A0G2K509|A0A0G2K509_RAT Keratin, type II cytoskeletal 5 OS=Rattus norvegicus GN=Krt5 PE=1 SV=1 (tr|A0A0G2K509|A0A0G2K509_RAT)	tr|A0A0G2K509|A0A0G2K509_RAT [3]	0.00031
tr|A0A0G2K509|A0A0G2K509_RAT Keratin, type II cytoskeletal 5 OS=Rattus norvegicus GN=Krt5 PE=1 SV=1	tr|A0A0G2K509|A0A0G2K509_RAT	0.00024
sp|Q6IMF3|K2C1_RAT Keratin, type II cytoskeletal 1 OS=Rattus norvegicus GN=Krt1 PE=2 SV=1	sp|Q6IMF3|K2C1_RAT (+1)	0.00021
tr|A0A0G2K528|A0A0G2K528_RAT Protein Stx16 OS=Rattus norvegicus GN=Stx16 PE=1 SV=1	tr|A0A0G2K528|A0A0G2K528_RAT	0.00021
tr|A0A0G2K675|A0A0G2K675_RAT Alpha-ketoglutarate-dependent dioxygenase FTO OS=Rattus norvegicus GN=Fto PE=1 SV=1	tr|A0A0G2K675|A0A0G2K675_RAT (+1)	0.00021
tr|A0A0G2K9E0|A0A0G2K9E0_RAT Ribonuclease inhibitor OS=Rattus norvegicus GN=Rnh1 PE=1 SV=1	tr|A0A0G2K9E0|A0A0G2K9E0_RAT	0.00031
tr|B2GV15|B2GV15_RAT Dihydrolipoamide branched chain transacylase E2 OS=Rattus norvegicus GN=Dbt PE=1 SV=1	tr|B2GV15|B2GV15_RAT	0.00021
tr|B2RYI2|B2RYI2_RAT Signal recognition particle subunit SRP68 OS=Rattus norvegicus GN=Srp68 PE=1 SV=1	tr|B2RYI2|B2RYI2_RAT	0.00028
tr|D3ZD89|D3ZD89_RAT NMDA receptor-regulated gene 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Naa15 PE=1 SV=2	tr|D3ZD89|D3ZD89_RAT	0.00021
tr|D3ZD97|D3ZD97_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 15 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Dhx15 PE=1 SV=1	tr|D3ZD97|D3ZD97_RAT	0.00028
tr|D3ZJX5|D3ZJX5_RAT Protein Timm50 OS=Rattus norvegicus GN=Timm50 PE=1 SV=2	tr|D3ZJX5|D3ZJX5_RAT	0.00024
tr|D3ZMN2|D3ZMN2_RAT Protein RGD1311747 OS=Rattus norvegicus GN=RGD1311747 PE=1 SV=2	tr|D3ZMN2|D3ZMN2_RAT	0.00024
tr|D3ZW08|D3ZW08_RAT Adenylosuccinate lyase OS=Rattus norvegicus GN=Adsl PE=1 SV=1	tr|D3ZW08|D3ZW08_RAT	0.00024
tr|D4A2B0|D4A2B0_RAT Polymerase (DNA-directed), delta interacting protein 3 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Poldip3 PE=1 SV=1	tr|D4A2B0|D4A2B0_RAT	0.00024
tr|D4A7J8|D4A7J8_RAT PRP4 pre-mRNA processing factor 4 homolog (Yeast) OS=Rattus norvegicus GN=Prpf4 PE=1 SV=1	tr|D4A7J8|D4A7J8_RAT	0.00028
tr|D4AAE9|D4AAE9_RAT Protein Cisd2 OS=Rattus norvegicus GN=Cisd2 PE=1 SV=1	tr|D4AAE9|D4AAE9_RAT	0.00024
tr|D4ABM5|D4ABM5_RAT Mitochondrial ribosomal protein S34 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrps34 PE=1 SV=1	tr|D4ABM5|D4ABM5_RAT	0.00028
tr|F1M062|F1M062_RAT Protein Larp1 OS=Rattus norvegicus GN=Larp1 PE=1 SV=3	tr|F1M062|F1M062_RAT	0.00017
tr|F1M9D6|F1M9D6_RAT Signal transducer and activator of transcription OS=Rattus norvegicus GN=Stat1 PE=1 SV=2	tr|F1M9D6|F1M9D6_RAT	0.00024
tr|F2Z3T9|F2Z3T9_RAT Protein U2af2 OS=Rattus norvegicus GN=U2af2 PE=1 SV=1	tr|F2Z3T9|F2Z3T9_RAT	0.00017
tr|G3V661|G3V661_RAT Bromodomain adjacent to zinc finger domain protein 1B OS=Rattus norvegicus GN=Baz1b PE=1 SV=1	tr|G3V661|G3V661_RAT	0.00028
tr|G3V741|G3V741_RAT Phosphate carrier protein, mitochondrial OS=Rattus norvegicus GN=Slc25a3 PE=1 SV=1	tr|G3V741|G3V741_RAT	0.00028
tr|M0R9Q1|M0R9Q1_RAT Protein Rbm14 OS=Rattus norvegicus GN=Rbm14 PE=1 SV=1	tr|M0R9Q1|M0R9Q1_RAT	0.00028
tr|Q4V8E1|Q4V8E1_RAT GATA zinc finger domain containing 2B OS=Rattus norvegicus GN=Gatad2b PE=1 SV=1	tr|Q4V8E1|Q4V8E1_RAT	0.00021
tr|Q56R18|Q56R18_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna3 PE=1 SV=1	tr|Q56R18|Q56R18_RAT	0.00021
tr|Q68FS8|Q68FS8_RAT Protein Rtcd1 OS=Rattus norvegicus GN=Rtcd1 PE=1 SV=1	tr|Q68FS8|Q68FS8_RAT	0.00031
tr|Q7TQ77|Q7TQ77_RAT Ac1288 OS=Rattus norvegicus GN=Hook3 PE=1 SV=1	tr|Q7TQ77|Q7TQ77_RAT	0.00024
sp|B2GUV7|IF2P_RAT Eukaryotic translation initiation factor 5B OS=Rattus norvegicus GN=Eif5b PE=1 SV=1	sp|B2GUV7|IF2P_RAT (+1)	0.00017
sp|B4F7E8|NIBL1_RAT Niban-like protein 1 OS=Rattus norvegicus GN=Fam129b PE=1 SV=1	sp|B4F7E8|NIBL1_RAT	0.00017
sp|P07895|SODM_RAT Superoxide dismutase [Mn], mitochondrial OS=Rattus norvegicus GN=Sod2 PE=1 SV=2	sp|P07895|SODM_RAT	0.00024
sp|P09895|RL5_RAT 60S ribosomal protein L5 OS=Rattus norvegicus GN=Rpl5 PE=1 SV=3	sp|P09895|RL5_RAT	0.00021
sp|P20788|UCRI_RAT Cytochrome b-c1 complex subunit Rieske, mitochondrial OS=Rattus norvegicus GN=Uqcrfs1 PE=1 SV=2	sp|P20788|UCRI_RAT	0.00021
sp|P28042|SSBP_RAT Single-stranded DNA-binding protein, mitochondrial OS=Rattus norvegicus GN=Ssbp1 PE=1 SV=2	sp|P28042|SSBP_RAT (+2)	0.00017
sp|P32851|STX1A_RAT Syntaxin-1A OS=Rattus norvegicus GN=Stx1a PE=1 SV=1	sp|P32851|STX1A_RAT	0.00021
sp|P35952|LDLR_RAT Low-density lipoprotein receptor OS=Rattus norvegicus GN=Ldlr PE=1 SV=1	sp|P35952|LDLR_RAT (+1)	0.00017
sp|P49088|ASNS_RAT Asparagine synthetase [glutamine-hydrolyzing] OS=Rattus norvegicus GN=Asns PE=2 SV=3	sp|P49088|ASNS_RAT	0.00017
sp|P62282|RS11_RAT 40S ribosomal protein S11 OS=Rattus norvegicus GN=Rps11 PE=1 SV=3	sp|P62282|RS11_RAT	0.00017
sp|P68255|1433T_RAT 14-3-3 protein theta OS=Rattus norvegicus GN=Ywhaq PE=1 SV=1	sp|P68255|1433T_RAT	0.00059
sp|P81155|VDAC2_RAT Voltage-dependent anion-selective channel protein 2 OS=Rattus norvegicus GN=Vdac2 PE=1 SV=2	sp|P81155|VDAC2_RAT	0.00028
sp|Q01205|ODO2_RAT Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial OS=Rattus norve	sp|Q01205|ODO2_RAT (+1)	0.00024
sp|Q561S0|NDUAA_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial OS=Rattus norvegicus GN=Ndufa10 PE=1 SV=1	sp|Q561S0|NDUAA_RAT	0.00017
sp|Q56A18-3|SMCE1_RAT Isoform 3 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1 OS=Rattus norvegicu	sp|Q56A18-3|SMCE1_RAT (+3)	0.00014
sp|Q5U2Q7|ERF1_RAT Eukaryotic peptide chain release factor subunit 1 OS=Rattus norvegicus GN=Etf1 PE=2 SV=3	sp|Q5U2Q7|ERF1_RAT	0.00021
sp|Q62931|GOSR1_RAT Golgi SNAP receptor complex member 1 OS=Rattus norvegicus GN=Gosr1 PE=1 SV=1	sp|Q62931|GOSR1_RAT	0.00017
sp|Q63468|KPRA_RAT Phosphoribosyl pyrophosphate synthase-associated protein 1 OS=Rattus norvegicus GN=Prpsap1 PE=1 SV=1	sp|Q63468|KPRA_RAT (+1)	0.00028
sp|Q6AYK8|EIF3D_RAT Eukaryotic translation initiation factor 3 subunit D OS=Rattus norvegicus GN=Eif3d PE=1 SV=1	sp|Q6AYK8|EIF3D_RAT	0.00028
sp|Q6AYL9|NUF2_RAT Kinetochore protein Nuf2 OS=Rattus norvegicus GN=Nuf2 PE=2 SV=1	sp|Q6AYL9|NUF2_RAT	0.00017
sp|Q6AYT7|ABD12_RAT Monoacylglycerol lipase ABHD12 OS=Rattus norvegicus GN=Abhd12 PE=2 SV=1	sp|Q6AYT7|ABD12_RAT	0.00014
sp|Q6P799|SYSC_RAT Serine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Sars PE=1 SV=3	sp|Q6P799|SYSC_RAT (+1)	0.0001
sp|Q6P9U8|EIF3H_RAT Eukaryotic translation initiation factor 3 subunit H OS=Rattus norvegicus GN=Eif3h PE=1 SV=1	sp|Q6P9U8|EIF3H_RAT	0.00024
sp|Q9EST6|AN32B_RAT Acidic leucine-rich nuclear phosphoprotein 32 family member B OS=Rattus norvegicus GN=Anp32b PE=1 SV=1	sp|Q9EST6|AN32B_RAT	0.00017
sp|Q9QY17-2|PACN2_RAT Isoform 2 of Protein kinase C and casein kinase substrate in neurons 2 protein OS=Rattus norvegicus GN=Pacsin2	sp|Q9QY17-2|PACN2_RAT (+3)	0.00017
sp|Q9Z0V5|PRDX4_RAT Peroxiredoxin-4 OS=Rattus norvegicus GN=Prdx4 PE=2 SV=1	sp|Q9Z0V5|PRDX4_RAT	0.00031
tr|A0A0G2JSS9|A0A0G2JSS9_RAT Atlastin-3 OS=Rattus norvegicus GN=Atl3 PE=1 SV=1	tr|A0A0G2JSS9|A0A0G2JSS9_RAT	0.00024
tr|A0A0G2JVV5|A0A0G2JVV5_RAT Protein Usp14 OS=Rattus norvegicus GN=Usp14 PE=1 SV=1	tr|A0A0G2JVV5|A0A0G2JVV5_RAT (+1)	0.00017
tr|A0A0G2K261|A0A0G2K261_RAT Protein Iars2 OS=Rattus norvegicus GN=Iars2 PE=1 SV=1	tr|A0A0G2K261|A0A0G2K261_RAT	0.00024
tr|A0A0H2UHE1|A0A0H2UHE1_RAT Succinate-CoA ligase, GDP-forming, alpha subunit, isoform CRA_b OS=Rattus norvegicus GN=Suclg1 PE=1 SV=1	tr|A0A0H2UHE1|A0A0H2UHE1_RAT	0.00021
tr|A0JN30|A0JN30_RAT Canopy 2 homolog (Zebrafish) OS=Rattus norvegicus GN=Cnpy2 PE=1 SV=1	tr|A0JN30|A0JN30_RAT	0.00017
Cluster of tr|D3Z8E0|D3Z8E0_RAT Ribosomal protein S6 kinase OS=Rattus norvegicus GN=Rps6ka3 PE=1 SV=2 (tr|D3Z8E0|D3Z8E0_RAT)	tr|D3Z8E0|D3Z8E0_RAT [3]	0.00021

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D3Z8E0|D3Z8E0_RAT Ribosomal protein S6 kinase OS=Rattus norvegicus GN=Rps6ka3 PE=1 SV=2	tr|D3Z8E0|D3Z8E0_RAT	0.00017
tr|A0A0G2JXA6|A0A0G2JXA6_RAT Protein Rps6ka6 OS=Rattus norvegicus GN=Rps6ka6 PE=4 SV=1	tr|A0A0G2JXA6|A0A0G2JXA6_RAT (+1)	0.00007
tr|D3ZFB2|D3ZFB2_RAT Protein Luc7l3 OS=Rattus norvegicus GN=Luc7l3 PE=1 SV=1	tr|D3ZFB2|D3ZFB2_RAT	0.00021
tr|D3ZGE6|D3ZGE6_RAT Cortactin, isoform CRA_c OS=Rattus norvegicus GN=Cttn PE=1 SV=3	tr|D3ZGE6|D3ZGE6_RAT	0.00021
tr|D3ZJ92|D3ZJ92_RAT Pre-mRNA processing factor 40 homolog A (Yeast) (Predicted) OS=Rattus norvegicus GN=Prpf40a PE=1 SV=1	tr|D3ZJ92|D3ZJ92_RAT	0.00024
tr|D3ZUQ2|D3ZUQ2_RAT Protein Naa10 OS=Rattus norvegicus GN=Naa10 PE=1 SV=1	tr|D3ZUQ2|D3ZUQ2_RAT	0.00028
tr|D4A1Y5|D4A1Y5_RAT Protein Mthfd2 OS=Rattus norvegicus GN=Mthfd2 PE=3 SV=1	tr|D4A1Y5|D4A1Y5_RAT	0.00021
tr|D4A2D7|D4A2D7_RAT Importin 4 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ipo4 PE=1 SV=2	tr|D4A2D7|D4A2D7_RAT	0.00017
tr|D4A720|D4A720_RAT Protein Srsf7 OS=Rattus norvegicus GN=Srsf7 PE=1 SV=1	tr|D4A720|D4A720_RAT	0.00028
tr|E9PTI6|E9PTI6_RAT Protein Raly OS=Rattus norvegicus GN=Raly PE=1 SV=2	tr|E9PTI6|E9PTI6_RAT (+1)	0.00021
tr|F1LPS8|F1LPS8_RAT Transcriptional activator protein Pur-alpha OS=Rattus norvegicus GN=Pura PE=1 SV=3	tr|F1LPS8|F1LPS8_RAT	0.00024
tr|F1M9Q3|F1M9Q3_RAT Protein Ltn1 OS=Rattus norvegicus GN=Ltn1 PE=1 SV=2	tr|F1M9Q3|F1M9Q3_RAT	0.00017
tr|G3V8T5|G3V8T5_RAT DNA helicase OS=Rattus norvegicus GN=Ruvbl2 PE=1 SV=1	tr|G3V8T5|G3V8T5_RAT	0.00017
tr|Q4KLL7|Q4KLL7_RAT Protein Vps4b OS=Rattus norvegicus GN=Vps4b PE=1 SV=1	tr|Q4KLL7|Q4KLL7_RAT	0.00024
Cluster of tr|Q4KM38|Q4KM38_RAT FUS interacting protein (Serine-arginine rich) 1 OS=Rattus norvegicus GN=Srsf10 PE=1 SV=1 (tr|Q4KM38|Q4KM38_RAT)	tr|Q4KM38|Q4KM38_RAT	0.0001
tr|Q4KM38|Q4KM38_RAT FUS interacting protein (Serine-arginine rich) 1 OS=Rattus norvegicus GN=Srsf10 PE=1 SV=1	tr|Q4KM38|Q4KM38_RAT	0.0001
tr|Q5XI77|Q5XI77_RAT Annexin OS=Rattus norvegicus GN=Anxa11 PE=1 SV=1	tr|Q5XI77|Q5XI77_RAT	0.00017
tr|Q6DGF2|Q6DGF2_RAT Enthoprotin OS=Rattus norvegicus GN=Clint1 PE=1 SV=1	tr|Q6DGF2|Q6DGF2_RAT	0.00021
tr|Q6PCT9|Q6PCT9_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 6 OS=Rattus norvegicus GN=Psmd6 PE=1 SV=1	tr|Q6PCT9|Q6PCT9_RAT	0.00014
tr|Q71SY3|Q71SY3_RAT Protein Tsn OS=Rattus norvegicus GN=Tsn PE=1 SV=1	tr|Q71SY3|Q71SY3_RAT	0.00024
sp|B2GUZ5|CAZA1_RAT F-actin-capping protein subunit alpha-1 OS=Rattus norvegicus GN=Capza1 PE=1 SV=1	sp|B2GUZ5|CAZA1_RAT	0.00028
Cluster of sp|O88453|SAFB1_RAT Scaffold attachment factor B1 OS=Rattus norvegicus GN=Safb PE=1 SV=2 (sp|O88453|SAFB1_RAT)	sp|O88453|SAFB1_RAT [3]	0.00024
sp|O88453|SAFB1_RAT Scaffold attachment factor B1 OS=Rattus norvegicus GN=Safb PE=1 SV=2	sp|O88453|SAFB1_RAT (+2)	0.00024
sp|P05712|RAB2A_RAT Ras-related protein Rab-2A OS=Rattus norvegicus GN=Rab2a PE=2 SV=1	sp|P05712|RAB2A_RAT	0.00024
sp|P07825|SYPH_RAT Synaptophysin OS=Rattus norvegicus GN=Syp PE=1 SV=1	sp|P07825|SYPH_RAT	0.00024
sp|P09527|RAB7A_RAT Ras-related protein Rab-7a OS=Rattus norvegicus GN=Rab7a PE=1 SV=2	sp|P09527|RAB7A_RAT (+1)	0.00021
sp|P13221|AATC_RAT Aspartate aminotransferase, cytoplasmic OS=Rattus norvegicus GN=Got1 PE=1 SV=3	sp|P13221|AATC_RAT	0.0001
sp|P13437|THIM_RAT 3-ketoacyl-CoA thiolase, mitochondrial OS=Rattus norvegicus GN=Acaa2 PE=2 SV=1	sp|P13437|THIM_RAT (+2)	0.0001
sp|P15205|MAP1B_RAT Microtubule-associated protein 1B OS=Rattus norvegicus GN=Map1b PE=1 SV=2	sp|P15205|MAP1B_RAT (+1)	0.00021
Cluster of sp|P19836|PCY1A_RAT Choline-phosphate cytidylyltransferase A OS=Rattus norvegicus GN=Pcyt1a PE=1 SV=2 (sp|P19836|PCY1A_RAT)	sp|P19836|PCY1A_RAT	0.00017
sp|P19836|PCY1A_RAT Choline-phosphate cytidylyltransferase A OS=Rattus norvegicus GN=Pcyt1a PE=1 SV=2	sp|P19836|PCY1A_RAT	0.00017
sp|P23965|ECI1_RAT Enoyl-CoA delta isomerase 1, mitochondrial OS=Rattus norvegicus GN=Eci1 PE=1 SV=1	sp|P23965|ECI1_RAT (+1)	0.00021
sp|P26453-2|BASI_RAT Isoform 2 of Basigin OS=Rattus norvegicus GN=Bsg	sp|P26453-2|BASI_RAT (+1)	0.00021
sp|P36201|CRIP2_RAT Cysteine-rich protein 2 OS=Rattus norvegicus GN=Crip2 PE=2 SV=1	sp|P36201|CRIP2_RAT	0.00021
sp|P36876|2ABA_RAT Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform OS=Rattus norvegicus GN=Ppp2r2a PE=2 SV=1	sp|P36876|2ABA_RAT	0.00017
sp|P47858|PFKAM_RAT ATP-dependent 6-phosphofructokinase, muscle type OS=Rattus norvegicus GN=Pfkm PE=1 SV=3	sp|P47858|PFKAM_RAT (+2)	0.00017
sp|P54001|P4HA1_RAT Prolyl 4-hydroxylase subunit alpha-1 OS=Rattus norvegicus GN=P4ha1 PE=2 SV=2	sp|P54001|P4HA1_RAT	0.00021
sp|P54921|SNAA_RAT Alpha-soluble NSF attachment protein OS=Rattus norvegicus GN=Napa PE=1 SV=2	sp|P54921|SNAA_RAT	0.00028
sp|P60868|RS20_RAT 40S ribosomal protein S20 OS=Rattus norvegicus GN=Rps20 PE=3 SV=1	sp|P60868|RS20_RAT (+3)	0.00021
sp|P62853|RS25_RAT 40S ribosomal protein S25 OS=Rattus norvegicus GN=Rps25 PE=2 SV=1	sp|P62853|RS25_RAT (+2)	0.00021
sp|P63029|TCTP_RAT Translationally-controlled tumor protein OS=Rattus norvegicus GN=Tpt1 PE=1 SV=1	sp|P63029|TCTP_RAT	0.00024
sp|P63174|RL38_RAT 60S ribosomal protein L38 OS=Rattus norvegicus GN=Rpl38 PE=1 SV=2	sp|P63174|RL38_RAT (+1)	0.00021
sp|P70582|NUP54_RAT Nuclear pore complex protein Nup54 OS=Rattus norvegicus GN=Nup54 PE=1 SV=1	sp|P70582|NUP54_RAT	0.0001
sp|P85845|FSCN1_RAT Fascin OS=Rattus norvegicus GN=Fscn1 PE=1 SV=2	sp|P85845|FSCN1_RAT (+1)	0.00014
sp|Q01986|MP2K1_RAT Dual specificity mitogen-activated protein kinase kinase 1 OS=Rattus norvegicus GN=Map2k1 PE=1 SV=2	sp|Q01986|MP2K1_RAT (+1)	0.00031
sp|Q05175|BASP1_RAT Brain acid soluble protein 1 OS=Rattus norvegicus GN=Basp1 PE=1 SV=2	sp|Q05175|BASP1_RAT (+1)	0.00021
sp|Q07205|IF5_RAT Eukaryotic translation initiation factor 5 OS=Rattus norvegicus GN=Eif5 PE=1 SV=1	sp|Q07205|IF5_RAT	0.00021
sp|Q4KM74|SC22B_RAT Vesicle-trafficking protein SEC22b OS=Rattus norvegicus GN=Sec22b PE=1 SV=3	sp|Q4KM74|SC22B_RAT	0.00017
sp|Q5HZE4|MTNA_RAT Methylthioribose-1-phosphate isomerase OS=Rattus norvegicus GN=Mri1 PE=1 SV=1	sp|Q5HZE4|MTNA_RAT	0.00017
sp|Q5M827|PIR_RAT Pirin OS=Rattus norvegicus GN=Pir PE=1 SV=1	sp|Q5M827|PIR_RAT	0.0001
sp|Q5XIB2|CWC27_RAT Peptidyl-prolyl cis-trans isomerase CWC27 homolog OS=Rattus norvegicus GN=Cwc27 PE=1 SV=1	sp|Q5XIB2|CWC27_RAT (+1)	0.00021
sp|Q5XIK2|TMX2_RAT Thioredoxin-related transmembrane protein 2 OS=Rattus norvegicus GN=Tmx2 PE=2 SV=1	sp|Q5XIK2|TMX2_RAT	0.00021
sp|Q62785|HAP28_RAT 28 kDa heat- and acid-stable phosphoprotein OS=Rattus norvegicus GN=Pdap1 PE=1 SV=1	sp|Q62785|HAP28_RAT	0.00021
sp|Q63524|TMED2_RAT Transmembrane emp24 domain-containing protein 2 OS=Rattus norvegicus GN=Tmed2 PE=1 SV=1	sp|Q63524|TMED2_RAT	0.00017
sp|Q63798|PSME2_RAT Proteasome activator complex subunit 2 OS=Rattus norvegicus GN=Psme2 PE=2 SV=3	sp|Q63798|PSME2_RAT	0.00014
sp|Q66H80|COPD_RAT Coatomer subunit delta OS=Rattus norvegicus GN=Arcn1 PE=2 SV=1	sp|Q66H80|COPD_RAT	0.00017
sp|Q6PST4|ATLA1_RAT Atlastin-1 OS=Rattus norvegicus GN=Atl1 PE=1 SV=1	sp|Q6PST4|ATLA1_RAT	0.00021
sp|Q6U6G5|ZC3HF_RAT Zinc finger CCCH domain-containing protein 15 OS=Rattus norvegicus GN=Zc3h15 PE=1 SV=1	sp|Q6U6G5|ZC3HF_RAT	0.00017
sp|Q7TPK1|UHRF1_RAT E3 ubiquitin-protein ligase UHRF1 OS=Rattus norvegicus GN=Uhrf1 PE=1 SV=2	sp|Q7TPK1|UHRF1_RAT (+2)	0.00024
sp|Q9JHW1|CBPD_RAT Carboxypeptidase D OS=Rattus norvegicus GN=Cpd PE=1 SV=2	sp|Q9JHW1|CBPD_RAT (+1)	0.00017
sp|Q9QYU2|EFTS_RAT Elongation factor Ts, mitochondrial OS=Rattus norvegicus GN=Tsfm PE=2 SV=1	sp|Q9QYU2|EFTS_RAT	0.00021
sp|Q9WTV5|PSMD9_RAT 26S proteasome non-ATPase regulatory subunit 9 OS=Rattus norvegicus GN=Psmd9 PE=1 SV=1	sp|Q9WTV5|PSMD9_RAT (+1)	0.00021
tr|A0A0G2JU01|A0A0G2JU01_RAT Rho guanine nucleotide exchange factor 1 OS=Rattus norvegicus GN=Arhgef1 PE=1 SV=1	tr|A0A0G2JU01|A0A0G2JU01_RAT (+2)	0.00028
tr|A0A0G2K2J9|A0A0G2K2J9_RAT Protein Ctage5 OS=Rattus norvegicus GN=Ctage5 PE=1 SV=1	tr|A0A0G2K2J9|A0A0G2K2J9_RAT (+2)	0.0001
tr|A0A0G2K8Y7|A0A0G2K8Y7_RAT Protein Tmcc3 OS=Rattus norvegicus GN=Tmcc3 PE=1 SV=1	tr|A0A0G2K8Y7|A0A0G2K8Y7_RAT (+1)	0.00017
tr|A0A0G2K931|A0A0G2K931_RAT Phosphoserine aminotransferase OS=Rattus norvegicus GN=Psat1 PE=1 SV=1	tr|A0A0G2K931|A0A0G2K931_RAT (+1)	0.00021
Cluster of tr|B0K008|B0K008_RAT Eukaryotic translation initiation factor 1 OS=Rattus norvegicus GN=Eif1 PE=1 SV=1 (tr|B0K008|B0K008_RAT)	tr|B0K008|B0K008_RAT [2]	0.0001
tr|B0K008|B0K008_RAT Eukaryotic translation initiation factor 1 OS=Rattus norvegicus GN=Eif1 PE=1 SV=1	tr|B0K008|B0K008_RAT	0.0001

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|B5DFN1|B5DFN1_RAT Eukaryotic translation initiation factor 1B OS=Rattus norvegicus GN=Eif1b PE=1 SV=1	tr|B5DFN1|B5DFN1_RAT	0.000035
tr|B5DEY8|B5DEY8_RAT Protein Snx6 OS=Rattus norvegicus GN=Snx6 PE=1 SV=1	tr|B5DEY8|B5DEY8_RAT	0.00014
tr|D3Z8R4|D3Z8R4_RAT Protein Rbm25l1 OS=Rattus norvegicus GN=Rbm25l1 PE=1 SV=3	tr|D3Z8R4|D3Z8R4_RAT	0.00014
tr|D3ZCP9|D3ZCP9_RAT Transcription initiation factor IIE subunit beta OS=Rattus norvegicus GN=Gtf2e2 PE=1 SV=1	tr|D3ZCP9|D3ZCP9_RAT	0.00014
tr|D3ZG43|D3ZG43_RAT NADH dehydrogenase (Ubiquinone) Fe-S protein 3 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ndufs3 PE=1 SV=1	tr|D3ZG43|D3ZG43_RAT	0.00021
tr|D3ZP13|D3ZP13_RAT Sulfhydryl oxidase OS=Rattus norvegicus GN=Qsox2 PE=1 SV=1	tr|D3ZP13|D3ZP13_RAT	0.00017
tr|D4AE49|D4AE49_RAT Protein Skiv2l2 OS=Rattus norvegicus GN=Skiv2l2 PE=1 SV=3	tr|D4AE49|D4AE49_RAT	0.00017
tr|D4AE96|D4AE96_RAT Importin 7 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ipo7 PE=1 SV=1	tr|D4AE96|D4AE96_RAT	0.00024
Cluster of tr|E9PSJ3|E9PSJ3_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif4a PE=1 SV=1 (tr|E9PSJ3|E9PSJ3_RAT)	tr|E9PSJ3|E9PSJ3_RAT	0.00017
tr|E9PSJ3|E9PSJ3_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif4a PE=1 SV=1	tr|E9PSJ3|E9PSJ3_RAT	0.00017
tr|F1LXS5|F1LXS5_RAT Protein Rcor1 OS=Rattus norvegicus GN=Rcor1 PE=1 SV=1	tr|F1LXS5|F1LXS5_RAT	0.00017
tr|F1LZW6|F1LZW6_RAT Protein Slc25a13 OS=Rattus norvegicus GN=Slc25a13 PE=1 SV=2	tr|F1LZW6|F1LZW6_RAT	0.00028
tr|G3V828|G3V828_RAT Protein Cnpy3 OS=Rattus norvegicus GN=Cnpy3 PE=1 SV=1	tr|G3V828|G3V828_RAT	0.00024
tr|G3V912|G3V912_RAT Protein Tmx4 OS=Rattus norvegicus GN=Tmx4 PE=1 SV=1	tr|G3V912|G3V912_RAT	0.00017
tr|G3V949|G3V949_RAT CAP-Gly domain-containing linker protein 2 OS=Rattus norvegicus GN=Clip2 PE=1 SV=1	tr|G3V949|G3V949_RAT	0.00024
Cluster of tr|Q4FZS2|Q4FZS2_RAT Budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae) OS=Rattus norvegicus GN=Bub3 PE=1 SV=1 (tr|Q4FZS2|Q4	tr|Q4FZS2|Q4FZS2_RAT	0.00021
tr|Q4FZS2|Q4FZS2_RAT Budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae) OS=Rattus norvegicus GN=Bub3 PE=1 SV=1	tr|Q4FZS2|Q4FZS2_RAT	0.00021
tr|Q5M7T6|Q5M7T6_RAT ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1 OS=Rattus norvegicus GN=Atp6v0d1 PE=1 SV=1	tr|Q5M7T6|Q5M7T6_RAT	0.00021
tr|Q5RJK5|Q5RJK5_RAT Chromobox homolog 3 (HP1 gamma homolog, Drosophila) OS=Rattus norvegicus GN=Cbx3 PE=1 SV=1	tr|Q5RJK5|Q5RJK5_RAT	0.00021
tr|Q6AY21|Q6AY21_RAT GTPase activating protein (SH3 domain) binding protein 2 OS=Rattus norvegicus GN=G3bp2 PE=1 SV=1	tr|Q6AY21|Q6AY21_RAT	0.0001
tr|Q6P762|Q6P762_RAT Alpha-mannosidase OS=Rattus norvegicus GN=Man2b1 PE=1 SV=1	tr|Q6P762|Q6P762_RAT	0.00021
Cluster of tr|Q6V9V9|Q6V9V9_RAT Protein Stk25 OS=Rattus norvegicus GN=Stk25 PE=1 SV=1 (tr|Q6V9V9|Q6V9V9_RAT)	tr|Q6V9V9|Q6V9V9_RAT [3]	0.00021
tr|Q6V9V9|Q6V9V9_RAT Protein Stk25 OS=Rattus norvegicus GN=Stk25 PE=1 SV=1	tr|Q6V9V9|Q6V9V9_RAT	0.00017
sp|B0LT89|STK24_RAT Serine/threonine-protein kinase 24 OS=Rattus norvegicus GN=Stk24 PE=2 SV=1	sp|B0LT89|STK24_RAT (+1)	0.00014
sp|A0MZ67|SHOT1_RAT Shootin-1 OS=Rattus norvegicus GN=Shtn1 PE=1 SV=1	sp|A0MZ67|SHOT1_RAT (+1)	0.00021
sp|A1A5S1|PRP6_RAT Pre-mRNA-processing factor 6 OS=Rattus norvegicus GN=Prpf6 PE=1 SV=1	sp|A1A5S1|PRP6_RAT	0.00017
sp|B2GV38|UBL4A_RAT Ubiquitin-like protein 4A OS=Rattus norvegicus GN=Ubl4a PE=2 SV=1	sp|B2GV38|UBL4A_RAT	0.00014
sp|O35889-2|AFAD_RAT Isoform 2 of Afadin OS=Rattus norvegicus GN=Mllt4	sp|O35889-2|AFAD_RAT (+2)	0.00017
sp|P0C0A1|VPS25_RAT Vacuolar protein-sorting-associated protein 25 OS=Rattus norvegicus GN=Vps25 PE=1 SV=1	sp|P0C0A1|VPS25_RAT	0.00021
Cluster of sp|P18484|AP2A2_RAT AP-2 complex subunit alpha-2 OS=Rattus norvegicus GN=Ap2a2 PE=1 SV=3 (sp|P18484|AP2A2_RAT)	sp|P18484|AP2A2_RAT [4]	0.00021
sp|P18484|AP2A2_RAT AP-2 complex subunit alpha-2 OS=Rattus norvegicus GN=Ap2a2 PE=1 SV=3	sp|P18484|AP2A2_RAT (+2)	0.00017
tr|D3ZUY8|D3ZUY8_RAT Adaptor protein complex AP-2, alpha 1 subunit (Predicted) OS=Rattus norvegicus GN=Ap2a1 PE=1 SV=1	tr|D3ZUY8|D3ZUY8_RAT	0.0001
sp|P19139|CSK21_RAT Casein kinase II subunit alpha OS=Rattus norvegicus GN=Csnk2a1 PE=1 SV=2	sp|P19139|CSK21_RAT	0.00021
sp|P19234|NDUV2_RAT NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial OS=Rattus norvegicus GN=Ndufv2 PE=1 SV=2	sp|P19234|NDUV2_RAT	0.00017
sp|P20961|PAI1_RAT Plasminogen activator inhibitor 1 OS=Rattus norvegicus GN=Serpine1 PE=2 SV=1	sp|P20961|PAI1_RAT (+1)	0.0001
sp|P21670|PSA4_RAT Proteasome subunit alpha type-4 OS=Rattus norvegicus GN=Psma4 PE=1 SV=1	sp|P21670|PSA4_RAT	0.00017
sp|P22509|FBRL_RAT rRNA 2'-O-methyltransferase fibrillarin OS=Rattus norvegicus GN=Fbl PE=1 SV=2	sp|P22509|FBRL_RAT	0.00017
sp|P26284|ODPA_RAT Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial OS=Rattus norvegicus GN=Pdha1 PE=1 SV=2	sp|P26284|ODPA_RAT (+3)	0.00017
sp|P27615|SCRB2_RAT Lysosome membrane protein 2 OS=Rattus norvegicus GN=Scarb2 PE=1 SV=2	sp|P27615|SCRB2_RAT	0.00014
sp|P35427|RL13A_RAT 60S ribosomal protein L13a OS=Rattus norvegicus GN=Rpl13a PE=1 SV=2	sp|P35427|RL13A_RAT (+1)	0.0001
Cluster of sp|P62749|HPCL1_RAT Hippocalcin-like protein 1 OS=Rattus norvegicus GN=Hpcal1 PE=1 SV=2 (sp|P62749|HPCL1_RAT)	sp|P62749|HPCL1_RAT [2]	0.00017
sp|P62749|HPCL1_RAT Hippocalcin-like protein 1 OS=Rattus norvegicus GN=Hpcal1 PE=1 SV=2	sp|P62749|HPCL1_RAT	0.00014
sp|P84076|HPCA_RAT Neuron-specific calcium-binding protein hippocalcin OS=Rattus norvegicus GN=Hpca PE=1 SV=2	sp|P84076|HPCA_RAT	0.00007
sp|P62902|RL31_RAT 60S ribosomal protein L31 OS=Rattus norvegicus GN=Rpl31 PE=2 SV=1	sp|P62902|RL31_RAT (+1)	0.00021
sp|P63281|UBC9_RAT SUMO-conjugating enzyme UBC9 OS=Rattus norvegicus GN=Ube2i PE=1 SV=1	sp|P63281|UBC9_RAT (+1)	0.00014
Cluster of sp|P70618|MK14_RAT Mitogen-activated protein kinase 14 OS=Rattus norvegicus GN=Mapk14 PE=1 SV=3 (sp|P70618|MK14_RAT)	sp|P70618|MK14_RAT [2]	0.00017
sp|P70618|MK14_RAT Mitogen-activated protein kinase 14 OS=Rattus norvegicus GN=Mapk14 PE=1 SV=3	sp|P70618|MK14_RAT (+1)	0.00017
sp|Q05982|NDKA_RAT Nucleoside diphosphate kinase A OS=Rattus norvegicus GN=Nme1 PE=1 SV=1	sp|Q05982|NDKA_RAT	0.00052
sp|Q08163|CAP1_RAT Adenylyl cyclase-associated protein 1 OS=Rattus norvegicus GN=Cap1 PE=1 SV=3	sp|Q08163|CAP1_RAT	0.0001
sp|Q4FZT9|PSMD2_RAT 26S proteasome non-ATPase regulatory subunit 2 OS=Rattus norvegicus GN=Psmd2 PE=1 SV=1	sp|Q4FZT9|PSMD2_RAT	0.00021
sp|Q4V7A0|WDR61_RAT WD repeat-containing protein 61 OS=Rattus norvegicus GN=Wdr61 PE=1 SV=1	sp|Q4V7A0|WDR61_RAT (+1)	0.00014
sp|Q505J9|ATAD1_RAT ATPase family AAA domain-containing protein 1 OS=Rattus norvegicus GN=Atad1 PE=1 SV=1	sp|Q505J9|ATAD1_RAT (+1)	0.00021
Cluster of sp|Q56B11|PELP1_RAT Proline-, glutamic acid- and leucine-rich protein 1 OS=Rattus norvegicus GN=Pelp1 PE=1 SV=2 (sp|Q56B11|PELP1_RAT)	sp|Q56B11|PELP1_RAT [2]	0.00024
sp|Q56B11|PELP1_RAT Proline-, glutamic acid- and leucine-rich protein 1 OS=Rattus norvegicus GN=Pelp1 PE=1 SV=2	sp|Q56B11|PELP1_RAT	0.00021
tr|A0A0G2JSQ9|A0A0G2JSQ9_RAT Proline-, glutamic acid- and leucine-rich protein 1 OS=Rattus norvegicus GN=Pelp1 PE=1 SV=1	tr|A0A0G2JSQ9|A0A0G2JSQ9_RAT	0.00021
sp|Q5RJT2|SPB1_RAT pre-rRNA processing protein FTSJ3 OS=Rattus norvegicus GN=Ftsj3 PE=1 SV=1	sp|Q5RJT2|SPB1_RAT	0.0001
sp|Q5XI31|PIGS_RAT GPI transamidase component PIG-S OS=Rattus norvegicus GN=Pigs PE=2 SV=3	sp|Q5XI31|PIGS_RAT	0.00017
sp|Q5XID7|ARMX3_RAT Armadillo repeat-containing X-linked protein 3 OS=Rattus norvegicus GN=Armcx3 PE=1 SV=1	sp|Q5XID7|ARMX3_RAT (+1)	0.00017
sp|Q5XIG8|STRAP_RAT Serine-threonine kinase receptor-associated protein OS=Rattus norvegicus GN=Strap PE=1 SV=1	sp|Q5XIG8|STRAP_RAT	0.00017
sp|Q63362|NDUA5_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5 OS=Rattus norvegicus GN=Ndufa5 PE=1 SV=3	sp|Q63362|NDUA5_RAT	0.00017
sp|Q641Y2|NDUS2_RAT NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial OS=Rattus norvegicus GN=Ndufs2 PE=1 SV=1	sp|Q641Y2|NDUS2_RAT	0.00021
sp|Q68FU3|ETFB_RAT Electron transfer flavoprotein subunit beta OS=Rattus norvegicus GN=Etfb PE=2 SV=3	sp|Q68FU3|ETFB_RAT	0.00017
sp|Q6AYL5|SF3B4_RAT Splicing factor 3B subunit 4 OS=Rattus norvegicus GN=Sf3b4 PE=2 SV=1	sp|Q6AYL5|SF3B4_RAT	0.00014
sp|Q99068|AMRP_RAT Alpha-2-macroglobulin receptor-associated protein OS=Rattus norvegicus GN=Lrpap1 PE=1 SV=2	sp|Q99068|AMRP_RAT	0.00021
sp|Q9EPX0|HSPB8_RAT Heat shock protein beta-8 OS=Rattus norvegicus GN=Hspb8 PE=1 SV=1	sp|Q9EPX0|HSPB8_RAT	0.0001
sp|Q9ES54|NPL4_RAT Nuclear protein localization protein 4 homolog OS=Rattus norvegicus GN=Nploc4 PE=1 SV=3	sp|Q9ES54|NPL4_RAT	0.00014
sp|Q9JHB5|TSNAX_RAT Translin-associated protein X OS=Rattus norvegicus GN=Tsnax PE=1 SV=1	sp|Q9JHB5|TSNAX_RAT	0.0001
sp|Q9JHL4-2|DBNL_RAT Isoform 2 of Drebrin-like protein OS=Rattus norvegicus GN=Dbnl	sp|Q9JHL4-2|DBNL_RAT (+2)	0.00017

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q9JLH7|CK5P3_RAT CDK5 regulatory subunit-associated protein 3 OS=Rattus norvegicus GN=Cdk5rap3 PE=1 SV=1	sp|Q9JLH7|CK5P3_RAT (+1)	0.00017
sp|Q9QZ86|NOP58_RAT Nucleolar protein 58 OS=Rattus norvegicus GN=Nop58 PE=1 SV=1	sp|Q9QZ86|NOP58_RAT	0.00021
sp|Q9R1Z0|VDAC3_RAT Voltage-dependent anion-selective channel protein 3 OS=Rattus norvegicus GN=Vdac3 PE=1 SV=2	sp|Q9R1Z0|VDAC3_RAT (+1)	0.00021
sp|Q9WUS0|KAD4_RAT Adenylate kinase 4, mitochondrial OS=Rattus norvegicus GN=Ak4 PE=2 SV=1	sp|Q9WUS0|KAD4_RAT	0.00021
Cluster of sp|Q9Z272|GIT1_RAT ARF GTPase-activating protein GIT1 OS=Rattus norvegicus GN=Git1 PE=1 SV=1 (sp|Q9Z272|GIT1_RAT)	sp|Q9Z272|GIT1_RAT [3]	0.00017
sp|Q9Z272|GIT1_RAT ARF GTPase-activating protein GIT1 OS=Rattus norvegicus GN=Git1 PE=1 SV=1	sp|Q9Z272|GIT1_RAT (+1)	0.00014
tr|Q66H91|Q66H91_RAT G protein-coupled receptor kinase interacting ArfGAP 2 OS=Rattus norvegicus GN=Git2 PE=1 SV=1	tr|Q66H91|Q66H91_RAT	0.000035
sp|Q9Z2Q7|STX8_RAT Syntaxin-8 OS=Rattus norvegicus GN=Stx8 PE=1 SV=1	sp|Q9Z2Q7|STX8_RAT	0.00017
sp|Q9Z330|DNMT1_RAT DNA (cytosine-5)-methyltransferase 1 OS=Rattus norvegicus GN=Dnmt1 PE=1 SV=2	sp|Q9Z330|DNMT1_RAT (+1)	0.00021
tr|A0A0G2JU77|A0A0G2JU77_RAT Eukaryotic translation initiation factor 3 subunit K OS=Rattus norvegicus GN=Eif3k PE=1 SV=1	tr|A0A0G2JU77|A0A0G2JU77_RAT	0.00014
tr|A0A0G2JUE4|A0A0G2JUE4_RAT Golgin subfamily A member 4 OS=Rattus norvegicus GN=Golga4 PE=1 SV=1	tr|A0A0G2JUE4|A0A0G2JUE4_RAT	0.00014
tr|A0A0G2JXS3|A0A0G2JXS3_RAT Protein Nusap1 OS=Rattus norvegicus GN=Nusap1 PE=1 SV=1	tr|A0A0G2JXS3|A0A0G2JXS3_RAT	0.00017
tr|A0A0G2JY68|A0A0G2JY68_RAT Protein NEWGENE_1359295 OS=Rattus norvegicus GN=NEWGENE_1359295 PE=1 SV=1	tr|A0A0G2JY68|A0A0G2JY68_RAT (+1)	0.00024
tr|A0A0G2K350|A0A0G2K350_RAT Protein Napg OS=Rattus norvegicus GN=Napg PE=1 SV=1	tr|A0A0G2K350|A0A0G2K350_RAT	0.00017
tr|A0A0G2K9L2|A0A0G2K9L2_RAT Protein Tom1l2 OS=Rattus norvegicus GN=Tom1l2 PE=1 SV=1	tr|A0A0G2K9L2|A0A0G2K9L2_RAT	0.00014
tr|A0A0G2K9P5|A0A0G2K9P5_RAT Protein Cog5 OS=Rattus norvegicus GN=Cog5 PE=1 SV=1	tr|A0A0G2K9P5|A0A0G2K9P5_RAT	0.0001
tr|B0BNL2|B0BNL2_RAT PDZ domain-containing protein 2 OS=Rattus norvegicus GN=Pin1 PE=1 SV=1	tr|B0BNL2|B0BNL2_RAT	0.00021
tr|B2RZ74|B2RZ74_RAT Protein Snrnp70 OS=Rattus norvegicus GN=Snrnp70 PE=1 SV=1	tr|B2RZ74|B2RZ74_RAT	0.00017
tr|B2RZD5|B2RZD5_RAT Protein Rpl22l1 OS=Rattus norvegicus GN=Rpl22l1 PE=2 SV=1	tr|B2RZD5|B2RZD5_RAT (+1)	0.00021
tr|D3ZN95|D3ZN95_RAT Protein Hcfc1 OS=Rattus norvegicus GN=Hcfc1 PE=1 SV=1	tr|D3ZN95|D3ZN95_RAT	0.00014
tr|D3ZZR9|D3ZZR9_RAT Peptidyl-prolyl cis-trans isomerase OS=Rattus norvegicus GN=Fkbp2 PE=1 SV=1	tr|D3ZZR9|D3ZZR9_RAT	0.0001
tr|D4A1C5|D4A1C5_RAT Protein Spc24 OS=Rattus norvegicus GN=Spc24 PE=4 SV=3	tr|D4A1C5|D4A1C5_RAT	0.00017
tr|D4ACV0|D4ACV0_RAT Protein Nelfb OS=Rattus norvegicus GN=Nelfb PE=1 SV=1	tr|D4ACV0|D4ACV0_RAT	0.00017
tr|E9PTE1|E9PTE1_RAT Protein Son OS=Rattus norvegicus GN=Son PE=1 SV=2	tr|E9PTE1|E9PTE1_RAT	0.00021
tr|F1LM37|F1LM37_RAT Protein Sf1 OS=Rattus norvegicus GN=Sf1 PE=1 SV=2	tr|F1LM37|F1LM37_RAT (+1)	0.00014
tr|F1LQ27|F1LQ27_RAT Protein Fam98c OS=Rattus norvegicus GN=Fam98c PE=1 SV=1	tr|F1LQ27|F1LQ27_RAT	0.0001
tr|F1LYZ8|F1LYZ8_RAT Protein Ppp1r21 OS=Rattus norvegicus GN=Ppp1r21 PE=1 SV=3	tr|F1LYZ8|F1LYZ8_RAT	0.0001
tr|F7EY92|F7EY92_RAT Methyl-CpG binding domain protein 3 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Mbd3 PE=1 SV=2	tr|F7EY92|F7EY92_RAT	0.00014
tr|G3V6H5|G3V6H5_RAT Mitochondrial 2-oxoglutarate/malate carrier protein OS=Rattus norvegicus GN=Slc25a11 PE=1 SV=1	tr|G3V6H5|G3V6H5_RAT	0.00024
tr|G3V728|G3V728_RAT 4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (C. elegans), isoform CRA_b OS=Rattus norvegic	tr|G3V728|G3V728_RAT	0.00014
tr|G3V8Q1|G3V8Q1_RAT Coatomer protein complex, subunit epsilon (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Cope PE=1 SV=3	tr|G3V8Q1|G3V8Q1_RAT	0.00017
tr|M0R907|M0R907_RAT Protein Snrpd3 OS=Rattus norvegicus GN=Snrpd3 PE=1 SV=1	tr|M0R907|M0R907_RAT	0.00017
tr|Q3B8R7|Q3B8R7_RAT Mitochondrial ribosomal protein L47 OS=Rattus norvegicus GN=Mrpl47 PE=1 SV=1	tr|Q3B8R7|Q3B8R7_RAT	0.00017
tr|Q5RK08|Q5RK08_RAT Glioblastoma amplified sequence OS=Rattus norvegicus GN=Gbas PE=1 SV=1	tr|Q5RK08|Q5RK08_RAT	0.0001
tr|Q5XIC6|Q5XIC6_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 12 OS=Rattus norvegicus GN=Psmd12 PE=1 SV=1	tr|Q5XIC6|Q5XIC6_RAT	0.00014
tr|Q5XIH3|Q5XIH3_RAT NADH dehydrogenase (Ubiquinone) flavoprotein 1 OS=Rattus norvegicus GN=Ndufv1 PE=1 SV=1	tr|Q5XIH3|Q5XIH3_RAT	0.00017
tr|Q5XIJ7|Q5XIJ7_RAT Calcium binding protein 39-like OS=Rattus norvegicus GN=Cab39l PE=1 SV=1	tr|Q5XIJ7|Q5XIJ7_RAT	0.00028
tr|Q6IRJ7|Q6IRJ7_RAT Annexin OS=Rattus norvegicus GN=Anxa7 PE=1 SV=1	tr|Q6IRJ7|Q6IRJ7_RAT	0.00021
sp|B0BN56|RT31_RAT 28S ribosomal protein S31, mitochondrial OS=Rattus norvegicus GN=Mrps31 PE=2 SV=1	sp|B0BN56|RT31_RAT	0.0001
Cluster of sp|Q63945|SET_RAT Protein SET OS=Rattus norvegicus GN=Set PE=2 SV=2 (sp|Q63945|SET_RAT)	sp|Q63945|SET_RAT [2]	0.0001
sp|Q63945|SET_RAT Protein SET OS=Rattus norvegicus GN=Set PE=2 SV=2	sp|Q63945|SET_RAT (+1)	0.0001
tr|F1LZC5|F1LZC5_RAT Protein Ndufa13 OS=Rattus norvegicus GN=Ndufa13 PE=4 SV=2	tr|F1LZC5|F1LZC5_RAT	0.00017
sp|P63074|IF4E_RAT Eukaryotic translation initiation factor 4E OS=Rattus norvegicus GN=Eif4e PE=1 SV=1	sp|P63074|IF4E_RAT	0.00014
tr|M0RDD7|M0RDD7_RAT Protein Chtopl1 OS=Rattus norvegicus GN=Chtopl1 PE=1 SV=1	tr|M0RDD7|M0RDD7_RAT	0.0001
sp|A4L9P7|PDS5A_RAT Sister chromatid cohesion protein PDS5 homolog A OS=Rattus norvegicus GN=Pds5a PE=1 SV=1	sp|A4L9P7|PDS5A_RAT	0.00017
sp|B1H267|SNX5_RAT Sorting nexin-5 OS=Rattus norvegicus GN=Snx5 PE=1 SV=1	sp|B1H267|SNX5_RAT	0.0001
sp|B2GV24|UFL1_RAT E3 UFM1-protein ligase 1 OS=Rattus norvegicus GN=Ufl1 PE=1 SV=1	sp|B2GV24|UFL1_RAT	0.0001
sp|G3V7P1|STX12_RAT Syntaxin-12 OS=Rattus norvegicus GN=Stx12 PE=1 SV=1	sp|G3V7P1|STX12_RAT (+2)	0.0001
sp|O08623|SQSTM_RAT Sequestosome-1 OS=Rattus norvegicus GN=Sqstm1 PE=1 SV=1	sp|O08623|SQSTM_RAT	0.00021
sp|O08839-2|BIN1_RAT Isoform AMPH2-2 of Myc box-dependent-interacting protein 1 OS=Rattus norvegicus GN=Bin1	sp|O08839-2|BIN1_RAT (+6)	0.000035
sp|O35165|GOSR2_RAT Golgi SNAP receptor complex member 2 OS=Rattus norvegicus GN=Gosr2 PE=1 SV=2	sp|O35165|GOSR2_RAT	0.00017
sp|O54747|DPOD1_RAT DNA polymerase delta catalytic subunit OS=Rattus norvegicus GN=Pold1 PE=2 SV=1	sp|O54747|DPOD1_RAT (+1)	0.00017
sp|P00173-2|CYB5_RAT Isoform Short of Cytochrome b5 OS=Rattus norvegicus GN=Cyb5a	sp|P00173-2|CYB5_RAT (+1)	0.00017
sp|P04166|CYB5B_RAT Cytochrome b5 type B OS=Rattus norvegicus GN=Cyb5b PE=1 SV=2	sp|P04166|CYB5B_RAT	0.00017
sp|P04762|CATA_RAT Catalase OS=Rattus norvegicus GN=Cat PE=1 SV=3	sp|P04762|CATA_RAT	0.00014
sp|P10354|CMGA_RAT Chromogranin-A OS=Rattus norvegicus GN=Chga PE=1 SV=1	sp|P10354|CMGA_RAT (+1)	0.00017
sp|P11960|ODBA_RAT 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial (Fragment) OS=Rattus norvegicus GN=Bckdha PE=1 SV=1	sp|P11960|ODBA_RAT (+1)	0.00017
sp|P12839|NFM_RAT Neurofilament medium polypeptide OS=Rattus norvegicus GN=Nefm PE=1 SV=4	sp|P12839|NFM_RAT	0.00024
sp|P14604|ECHM_RAT Enoyl-CoA hydratase, mitochondrial OS=Rattus norvegicus GN=Echs1 PE=1 SV=1	sp|P14604|ECHM_RAT	0.00017
sp|P17955|NUP62_RAT Nuclear pore glycoprotein p62 OS=Rattus norvegicus GN=Nup62 PE=1 SV=1	sp|P17955|NUP62_RAT	0.00014
sp|P18445|RL27A_RAT 60S ribosomal protein L27a OS=Rattus norvegicus GN=Rpl27a PE=1 SV=3	sp|P18445|RL27A_RAT (+1)	0.00017
sp|P24268|CATD_RAT Cathepsin D OS=Rattus norvegicus GN=Ctsd PE=1 SV=1	sp|P24268|CATD_RAT (+1)	0.00021
sp|P27881|HXK2_RAT Hexokinase-2 OS=Rattus norvegicus GN=Hk2 PE=1 SV=1	sp|P27881|HXK2_RAT	0.00031
sp|P34926|MAP1A_RAT Microtubule-associated protein 1A OS=Rattus norvegicus GN=Map1a PE=1 SV=1	sp|P34926|MAP1A_RAT (+2)	0.00014
sp|P35571|GPDM_RAT Glycerol-3-phosphate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Gpd2 PE=1 SV=1	sp|P35571|GPDM_RAT (+1)	0.00017
sp|P36506|MP2K2_RAT Dual specificity mitogen-activated protein kinase kinase 2 OS=Rattus norvegicus GN=Map2k2 PE=1 SV=1	sp|P36506|MP2K2_RAT	0.00028
sp|P54313|GBB2_RAT Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 OS=Rattus norvegicus GN=Gnb2 PE=1 SV=4	sp|P54313|GBB2_RAT	0.00017
sp|P62828|RAN_RAT GTP-binding nuclear protein Ran OS=Rattus norvegicus GN=Ran PE=1 SV=3	sp|P62828|RAN_RAT	0.00017

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|P62912|RL32_RAT 60S ribosomal protein L32 OS=Rattus norvegicus GN=Rpl32 PE=1 SV=2	sp|P62912|RL32_RAT (+1)	0.00017
sp|P83565|RM40_RAT 39S ribosomal protein L40, mitochondrial OS=Rattus norvegicus GN=Mrpl40 PE=1 SV=2	sp|P83565|RM40_RAT	0.00014
sp|Q4KLF8|ARPC5_RAT Actin-related protein 2/3 complex subunit 5 OS=Rattus norvegicus GN=Arpc5 PE=1 SV=3	sp|Q4KLF8|ARPC5_RAT	0.0001
sp|Q4KLH5|AGFG1_RAT Arf-GAP domain and FG repeat-containing protein 1 OS=Rattus norvegicus GN=Agfg1 PE=1 SV=1	sp|Q4KLH5|AGFG1_RAT (+1)	0.00017
sp|Q4KLN6|RIR2_RAT Ribonucleoside-diphosphate reductase subunit M2 OS=Rattus norvegicus GN=Rrm2 PE=2 SV=1	sp|Q4KLN6|RIR2_RAT (+1)	0.00014
sp|Q4V886|PAF1_RAT RNA polymerase II-associated factor 1 homolog OS=Rattus norvegicus GN=Paf1 PE=2 SV=1	sp|Q4V886|PAF1_RAT	0.00014
sp|Q566E5|KDEL2_RAT KDEL motif-containing protein 2 OS=Rattus norvegicus GN=Kdelc2 PE=2 SV=1	sp|Q566E5|KDEL2_RAT	0.00017
sp|Q56A27|NCBP1_RAT Nuclear cap-binding protein subunit 1 OS=Rattus norvegicus GN=Ncbp1 PE=1 SV=1	sp|Q56A27|NCBP1_RAT	0.00014
sp|Q5EB81|NB5R1_RAT NADH-cytochrome b5 reductase 1 OS=Rattus norvegicus GN=Cyb5r1 PE=2 SV=1	sp|Q5EB81|NB5R1_RAT (+1)	0.00014
sp|Q5FVH2|PLD3_RAT Phospholipase D3 OS=Rattus norvegicus GN=Pld3 PE=2 SV=1	sp|Q5FVH2|PLD3_RAT	0.00017
sp|Q5QJC9|BAG5_RAT BAG family molecular chaperone regulator 5 OS=Rattus norvegicus GN=Bag5 PE=1 SV=1	sp|Q5QJC9|BAG5_RAT	0.00014
sp|Q5RK00|RM46_RAT 39S ribosomal protein L46, mitochondrial OS=Rattus norvegicus GN=Mrpl46 PE=2 SV=1	sp|Q5RK00|RM46_RAT	0.00017
sp|Q5U211|SNX3_RAT Sorting nexin-3 OS=Rattus norvegicus GN=Snx3 PE=1 SV=1	sp|Q5U211|SNX3_RAT	0.00021
sp|Q5XI32|CAPZB_RAT F-actin-capping protein subunit beta OS=Rattus norvegicus GN=Capzb PE=1 SV=1	sp|Q5XI32|CAPZB_RAT	0.00017
sp|Q5XI72|IF4H_RAT Eukaryotic translation initiation factor 4H OS=Rattus norvegicus GN=Eif4h PE=1 SV=1	sp|Q5XI72|IF4H_RAT	0.00017
sp|Q5XID1|CPIN1_RAT Anamorsin OS=Rattus norvegicus GN=Ciapin1 PE=1 SV=1	sp|Q5XID1|CPIN1_RAT	0.00014
sp|Q62780|DDX46_RAT Probable ATP-dependent RNA helicase DDX46 OS=Rattus norvegicus GN=Ddx46 PE=1 SV=1	sp|Q62780|DDX46_RAT	0.00024
sp|Q62871-2|DC1I2_RAT Isoform 2B of Cytoplasmic dynein 1 intermediate chain 2 OS=Rattus norvegicus GN=Dync1i2	sp|Q62871-2|DC1I2_RAT (+3)	0.00024
sp|Q68FT1|COQ9_RAT Ubiquinone biosynthesis protein COQ9, mitochondrial OS=Rattus norvegicus GN=Coq9 PE=1 SV=2	sp|Q68FT1|COQ9_RAT	0.00014
sp|Q6AYB4|HSP7E_RAT Heat shock 70 kDa protein 14 OS=Rattus norvegicus GN=Hspa14 PE=2 SV=1	sp|Q6AYB4|HSP7E_RAT	0.00014
sp|Q6AYG5|ECHD1_RAT Ethylmalonyl-CoA decarboxylase OS=Rattus norvegicus GN=Echdc1 PE=1 SV=1	sp|Q6AYG5|ECHD1_RAT	0.00021
sp|Q6AYS7|ACY1A_RAT Aminoacylase-1A OS=Rattus norvegicus GN=Acy1a PE=1 SV=1	sp|Q6AYS7|ACY1A_RAT	0.00014
sp|Q6DGG1|ABHEB_RAT Protein ABHD14B OS=Rattus norvegicus GN=Abhd14b PE=2 SV=1	sp|Q6DGG1|ABHEB_RAT	0.00014
sp|Q6P7D4|CP20A_RAT Cytochrome P450 20A1 OS=Rattus norvegicus GN=Cyp20a1 PE=2 SV=1	sp|Q6P7D4|CP20A_RAT (+1)	0.00021
sp|Q792I0|LIN7C_RAT Protein lin-7 homolog C OS=Rattus norvegicus GN=Lin7c PE=1 SV=1	sp|Q792I0|LIN7C_RAT	0.00017
sp|Q8CFN2|CDC42_RAT Cell division control protein 42 homolog OS=Rattus norvegicus GN=Cdc42 PE=1 SV=2	sp|Q8CFN2|CDC42_RAT	0.00017
sp|Q9JHZ4-2|GRAP1_RAT Isoform 2 of GRIP1-associated protein 1 OS=Rattus norvegicus GN=Gripap1	sp|Q9JHZ4-2|GRAP1_RAT (+1)	0.00017
sp|Q9JJ19|NHRF1_RAT Na(+)/H(+) exchange regulatory cofactor NHE-RF1 OS=Rattus norvegicus GN=Slc9a3r1 PE=1 SV=3	sp|Q9JJ19|NHRF1_RAT	0.00014
sp|Q9QYF3|MYO5A_RAT Unconventional myosin-Va OS=Rattus norvegicus GN=Myo5a PE=1 SV=1	sp|Q9QYF3|MYO5A_RAT (+2)	0.00017
sp|Q9Z0V6|PRDX3_RAT Thioredoxin-dependent peroxide reductase, mitochondrial OS=Rattus norvegicus GN=Prdx3 PE=1 SV=2	sp|Q9Z0V6|PRDX3_RAT (+1)	0.00014
sp|Q9Z0W5|PACN1_RAT Protein kinase C and casein kinase substrate in neurons protein 1 OS=Rattus norvegicus GN=Pacsin1 PE=1 SV=1	sp|Q9Z0W5|PACN1_RAT (+1)	0.00014
tr|A0A0G2JU71|A0A0G2JU71_RAT Glutathione reductase OS=Rattus norvegicus GN=Gsr PE=1 SV=1	tr|A0A0G2JU71|A0A0G2JU71_RAT (+1)	0.00017
tr|A0A0G2JWP1|A0A0G2JWP1_RAT Protein Cstf2 OS=Rattus norvegicus GN=Cstf2 PE=1 SV=1	tr|A0A0G2JWP1|A0A0G2JWP1_RAT (+1)	0.00014
tr|A0A0G2K2M2|A0A0G2K2M2_RAT Protein LOC102556337 OS=Rattus norvegicus GN=LOC102556337 PE=1 SV=1	tr|A0A0G2K2M2|A0A0G2K2M2_RAT	0.00014
tr|A0A0G2K3N1|A0A0G2K3N1_RAT Protein Gbf1 OS=Rattus norvegicus GN=Gbf1 PE=1 SV=1	tr|A0A0G2K3N1|A0A0G2K3N1_RAT (+1)	0.00024
tr|A0A0G2K4Y1|A0A0G2K4Y1_RAT Protein Dnaja3 OS=Rattus norvegicus GN=Dnaja3 PE=1 SV=1	tr|A0A0G2K4Y1|A0A0G2K4Y1_RAT (+2)	0.00014
tr|A0A0G2QC06|A0A0G2QC06_RAT Serotransferrin OS=Rattus norvegicus GN=Tf PE=1 SV=1	tr|A0A0G2QC06|A0A0G2QC06_RAT	0.00014
tr|A0A0H2UHP9|A0A0H2UHP9_RAT RCG39700, isoform CRA_d OS=Rattus norvegicus GN=Rab6a PE=1 SV=1	tr|A0A0H2UHP9|A0A0H2UHP9_RAT	0.00024
tr|A8QIC3|A8QIC3_RAT DnaJ (Hsp40) homolog, subfamily C, member 9 (Predicted) OS=Rattus norvegicus GN=Dnajc9 PE=1 SV=1	tr|A8QIC3|A8QIC3_RAT	0.00014
tr|B1WC56|B1WC56_RAT Nola2 protein OS=Rattus norvegicus GN=Nhp2 PE=1 SV=1	tr|B1WC56|B1WC56_RAT	0.00017
tr|B2GUV5|B2GUV5_RAT ATPase, H transporting, lysosomal V1 subunit G1 OS=Rattus norvegicus GN=Atp6v1g1 PE=1 SV=1	tr|B2GUV5|B2GUV5_RAT	0.00014
tr|B2GV02|B2GV02_RAT Protein Racgap1 OS=Rattus norvegicus GN=Racgap1 PE=1 SV=1	tr|B2GV02|B2GV02_RAT	0.00014
tr|B2GV74|B2GV74_RAT Kinesin light chain 2 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Klc2 PE=1 SV=1	tr|B2GV74|B2GV74_RAT	0.00028
tr|B2RYX0|B2RYX0_RAT Naca protein OS=Rattus norvegicus GN=Naca PE=1 SV=1	tr|B2RYX0|B2RYX0_RAT (+1)	0.00014
tr|B5DFM8|B5DFM8_RAT Breast carcinoma amplified sequence 2 OS=Rattus norvegicus GN=Bcas2 PE=1 SV=1	tr|B5DFM8|B5DFM8_RAT	0.00014
tr|B5DFN4|B5DFN4_RAT Prefoldin 5 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Pfdn5 PE=1 SV=1	tr|B5DFN4|B5DFN4_RAT	0.00017
tr|D3ZD72|D3ZD72_RAT Protein Ncapg OS=Rattus norvegicus GN=Ncapg PE=1 SV=3	tr|D3ZD72|D3ZD72_RAT	0.00017
tr|D3ZI07|D3ZI07_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif3b PE=1 SV=1	tr|D3ZI07|D3ZI07_RAT	0.00024
tr|D3ZMY7|D3ZMY7_RAT Protein Nt5c2 OS=Rattus norvegicus GN=Nt5c2 PE=1 SV=3	tr|D3ZMY7|D3ZMY7_RAT	0.00017
tr|D3ZPA8|D3ZPA8_RAT Protein Gtse1 OS=Rattus norvegicus GN=Gtse1 PE=1 SV=1	tr|D3ZPA8|D3ZPA8_RAT	0.00017
tr|D3ZXE2|D3ZXE2_RAT Sister chromatid cohesion protein PDS5 homolog B OS=Rattus norvegicus GN=Pds5b PE=1 SV=1	tr|D3ZXE2|D3ZXE2_RAT	0.00028
tr|D4A2P1|D4A2P1_RAT Protein Ccar1 OS=Rattus norvegicus GN=Ccar1 PE=1 SV=2	tr|D4A2P1|D4A2P1_RAT	0.00014
tr|D4A3S8|D4A3S8_RAT NOL1/NOP2/Sun domain family, member 2 (Predicted) OS=Rattus norvegicus GN=Nsun2 PE=1 SV=1	tr|D4A3S8|D4A3S8_RAT	0.00017
tr|D4A4W6|D4A4W6_RAT Protein Slirp OS=Rattus norvegicus GN=Slirp PE=1 SV=1	tr|D4A4W6|D4A4W6_RAT	0.00017
tr|D4A8T3|D4A8T3_RAT Coatomer protein complex, subunit zeta 1 (Predicted) OS=Rattus norvegicus GN=Copz1 PE=1 SV=1	tr|D4A8T3|D4A8T3_RAT	0.00017
tr|D4A9D8|D4A9D8_RAT Oxysterol-binding protein OS=Rattus norvegicus GN=Osbp PE=1 SV=2	tr|D4A9D8|D4A9D8_RAT	0.00017
Cluster of tr|F1LNL2|F1LNL2_RAT Protein Smarca5 OS=Rattus norvegicus GN=Smarca5 PE=1 SV=2 (tr|F1LNL2|F1LNL2_RAT)	tr|F1LNL2|F1LNL2_RAT	0.00014
tr|F1LNL2|F1LNL2_RAT Protein Smarca5 OS=Rattus norvegicus GN=Smarca5 PE=1 SV=2	tr|F1LNL2|F1LNL2_RAT	0.00014
tr|F1LRB7|F1LRB7_RAT Tumor susceptibility gene 101 OS=Rattus norvegicus GN=Tsg101 PE=1 SV=3	tr|F1LRB7|F1LRB7_RAT	0.00014
tr|F1LRB8|F1LRB8_RAT S-adenosylmethionine synthase OS=Rattus norvegicus GN=LOC100363915 PE=1 SV=2	tr|F1LRB8|F1LRB8_RAT	0.00017
tr|F8WFH8|F8WFH8_RAT Tryptophan--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Wars PE=1 SV=1	tr|F8WFH8|F8WFH8_RAT	0.00021
tr|G3V6H2|G3V6H2_RAT Pre-mRNA processing factor 8, isoform CRA_a OS=Rattus norvegicus GN=Prpf8 PE=1 SV=1	tr|G3V6H2|G3V6H2_RAT	0.00024
tr|G3V6N2|G3V6N2_RAT Protein Tmed4 OS=Rattus norvegicus GN=Tmed4 PE=1 SV=3	tr|G3V6N2|G3V6N2_RAT	0.00024
tr|M0R402|M0R402_RAT Protein Tmx3 OS=Rattus norvegicus GN=Tmx3 PE=1 SV=2	tr|M0R402|M0R402_RAT	0.0001
tr|O88321|O88321_RAT Antisecretory factor OS=Rattus norvegicus GN=Psmd4 PE=1 SV=1	tr|O88321|O88321_RAT	0.00014
tr|Q0ZFS5|Q0ZFS5_RAT Protein Zc3h11a OS=Rattus norvegicus GN=Zc3h11a PE=1 SV=1	tr|Q0ZFS5|Q0ZFS5_RAT	0.0001
tr|Q4KM57|Q4KM57_RAT LEM domain containing 2 OS=Rattus norvegicus GN=Lemd2 PE=1 SV=1	tr|Q4KM57|Q4KM57_RAT	0.0001
tr|Q566E4|Q566E4_RAT Heterogeneous nuclear ribonucleoprotein R OS=Rattus norvegicus GN=Hnrnpr PE=1 SV=1	tr|Q566E4|Q566E4_RAT	0.00031

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|Q5RKJ4|Q5RKJ4_RAT Farnesyltransferase, CAAX box, alpha OS=Rattus norvegicus GN=Fnta PE=1 SV=1	tr|Q5RKJ4|Q5RKJ4_RAT	0.00014
tr|Q5U2V1|Q5U2V1_RAT FK506 binding protein 10 OS=Rattus norvegicus GN=Fkbp10 PE=1 SV=1	tr|Q5U2V1|Q5U2V1_RAT	0.00014
tr|Q5XHZ8|Q5XHZ8_RAT Component of oligomeric golgi complex 3 OS=Rattus norvegicus GN=Cog3 PE=1 SV=1	tr|Q5XHZ8|Q5XHZ8_RAT	0.0001
tr|Q6AZ40|Q6AZ40_RAT Phosphoribosyl pyrophosphate synthase-associated protein 2 OS=Rattus norvegicus GN=Prpsap2 PE=1 SV=1	tr|Q6AZ40|Q6AZ40_RAT	0.00024
tr|Q6P2A5|Q6P2A5_RAT GTP:AMP phosphotransferase AK3, mitochondrial OS=Rattus norvegicus GN=Ak3 PE=1 SV=1	tr|Q6P2A5|Q6P2A5_RAT	0.00014
tr|Q6PDV8|Q6PDV8_RAT Protein LOC100360057 OS=Rattus norvegicus GN=LOC100360057 PE=2 SV=1	tr|Q6PDV8|Q6PDV8_RAT	0.00017
tr|Q9ET50|Q9ET50_RAT Protein Stau1 OS=Rattus norvegicus GN=Stau1 PE=1 SV=1	tr|Q9ET50|Q9ET50_RAT	0.0001
tr|D3ZES2|D3ZES2_RAT Protein Trappc6b OS=Rattus norvegicus GN=Trappc6b PE=1 SV=1	tr|D3ZES2|D3ZES2_RAT	0.00014
Cluster of tr|A0A0G2K5G9|A0A0G2K5G9_RAT Protein Red OS=Rattus norvegicus GN=Ik PE=1 SV=1 (tr|A0A0G2K5G9|A0A0G2K5G9_RAT)	tr|A0A0G2K5G9|A0A0G2K5G9_RAT [2]	0.00021
tr|A0A0G2K5G9|A0A0G2K5G9_RAT Protein Red OS=Rattus norvegicus GN=Ik PE=1 SV=1	tr|A0A0G2K5G9|A0A0G2K5G9_RAT	0.00017
tr|Q6QI75|Q6QI75_RAT LRRG00133 OS=Rattus norvegicus GN=Wdr55 PE=1 SV=1	tr|Q6QI75|Q6QI75_RAT	0.00017
Cluster of tr|G3V6B0|G3V6B0_RAT Protein LOC103689979 OS=Rattus norvegicus GN=Pdxdc1 PE=1 SV=1 (tr|G3V6B0|G3V6B0_RAT)	tr|G3V6B0|G3V6B0_RAT [4]	0.00028
tr|G3V6B0|G3V6B0_RAT Protein LOC103689979 OS=Rattus norvegicus GN=Pdxdc1 PE=1 SV=1	tr|G3V6B0|G3V6B0_RAT	0.00024
tr|A0A0G2K7V9|A0A0G2K7V9_RAT Uncharacterized protein OS=Rattus norvegicus PE=1 SV=1	tr|A0A0G2K7V9|A0A0G2K7V9_RAT (+2)	0.00021
tr|Q8SEZ5|Q8SEZ5_RAT Cytochrome c oxidase subunit 2 OS=Rattus norvegicus GN=Mt-co2 PE=1 SV=1	tr|Q8SEZ5|Q8SEZ5_RAT	0.00021
sp|B1WBW4|ARM10_RAT Armadillo repeat-containing protein 10 OS=Rattus norvegicus GN=Armc10 PE=1 SV=1	sp|B1WBW4|ARM10_RAT	0.00017
sp|D3ZAF6|ATPK_RAT ATP synthase subunit f, mitochondrial OS=Rattus norvegicus GN=Atp5j2 PE=1 SV=1	sp|D3ZAF6|ATPK_RAT	0.0001
sp|D4AE41|RMXL1_RAT RNA binding motif protein, X-linked-like-1 OS=Rattus norvegicus GN=Rbmxl1 PE=3 SV=1	sp|D4AE41|RMXL1_RAT (+2)	0.00014
sp|F1LSG8|VPS50_RAT Syndetin OS=Rattus norvegicus GN=Vps50 PE=1 SV=1	sp|F1LSG8|VPS50_RAT	0.00021
sp|O55000|PP1RA_RAT Serine/threonine-protein phosphatase 1 regulatory subunit 10 OS=Rattus norvegicus GN=Ppp1r10 PE=1 SV=1	sp|O55000|PP1RA_RAT (+1)	0.00014
sp|P04041|GPX1_RAT Glutathione peroxidase 1 OS=Rattus norvegicus GN=Gpx1 PE=1 SV=4	sp|P04041|GPX1_RAT (+1)	0.00014
sp|P08592-2|A4_RAT Isoform APP695 of Amyloid beta A4 protein OS=Rattus norvegicus GN=App	sp|P08592-2|A4_RAT (+2)	0.00017
sp|P09456|KAP0_RAT cAMP-dependent protein kinase type I-alpha regulatory subunit OS=Rattus norvegicus GN=Prkar1a PE=1 SV=2	sp|P09456|KAP0_RAT	0.00014
sp|P12001|RL18_RAT 60S ribosomal protein L18 OS=Rattus norvegicus GN=Rpl18 PE=1 SV=2	sp|P12001|RL18_RAT (+1)	0.00021
sp|P29410-2|KAD2_RAT Isoform 2 of Adenylate kinase 2, mitochondrial OS=Rattus norvegicus GN=Ak2	sp|P29410-2|KAD2_RAT (+2)	0.00017
sp|P32089|TXTP_RAT Tricarboxylate transport protein, mitochondrial OS=Rattus norvegicus GN=Slc25a1 PE=1 SV=1	sp|P32089|TXTP_RAT	0.0001
sp|P49911|AN32A_RAT Acidic leucine-rich nuclear phosphoprotein 32 family member A OS=Rattus norvegicus GN=Anp32a PE=2 SV=1	sp|P49911|AN32A_RAT (+1)	0.00014
sp|P62634|CNBP_RAT Cellular nucleic acid-binding protein OS=Rattus norvegicus GN=Cnbp PE=2 SV=1	sp|P62634|CNBP_RAT	0.00014
sp|P85971|6PGL_RAT 6-phosphogluconolactonase OS=Rattus norvegicus GN=Pgls PE=1 SV=1	sp|P85971|6PGL_RAT (+1)	0.00014
sp|P97519|HMGCL_RAT Hydroxymethylglutaryl-CoA lyase, mitochondrial OS=Rattus norvegicus GN=Hmgcl PE=2 SV=1	sp|P97519|HMGCL_RAT	0.00017
sp|P97878|EXOC5_RAT Exocyst complex component 5 OS=Rattus norvegicus GN=Exoc5 PE=1 SV=1	sp|P97878|EXOC5_RAT	0.00017
sp|Q00566-2|MECP2_RAT Isoform B of Methyl-CpG-binding protein 2 OS=Rattus norvegicus GN=Mecp2	sp|Q00566-2|MECP2_RAT	0.00014
sp|Q07647|GTR3_RAT Solute carrier family 2, facilitated glucose transporter member 3 OS=Rattus norvegicus GN=Slc2a3 PE=1 SV=1	sp|Q07647|GTR3_RAT (+2)	0.00017
sp|Q08851-2|STX5_RAT Isoform 2 of Syntaxin-5 OS=Rattus norvegicus GN=Stx5	sp|Q08851-2|STX5_RAT (+1)	0.00014
sp|Q27W01|RBM8A_RAT RNA-binding protein 8A OS=Rattus norvegicus GN=Rbm8a PE=1 SV=1	sp|Q27W01|RBM8A_RAT	0.0001
sp|Q4VSI4|UBP7_RAT Ubiquitin carboxyl-terminal hydrolase 7 OS=Rattus norvegicus GN=Usp7 PE=1 SV=1	sp|Q4VSI4|UBP7_RAT (+1)	0.00014
sp|Q5BJX1|RM41_RAT 39S ribosomal protein L41, mitochondrial OS=Rattus norvegicus GN=Mrpl41 PE=1 SV=1	sp|Q5BJX1|RM41_RAT	0.00014
sp|Q5I0E7|TMED9_RAT Transmembrane emp24 domain-containing protein 9 OS=Rattus norvegicus GN=Tmed9 PE=1 SV=1	sp|Q5I0E7|TMED9_RAT	0.00017
sp|Q5I0E8|KIF22_RAT Kinesin-like protein KIF22 OS=Rattus norvegicus GN=Kif22 PE=2 SV=1	sp|Q5I0E8|KIF22_RAT	0.00017
sp|Q5RKI0|WDR1_RAT WD repeat-containing protein 1 OS=Rattus norvegicus GN=Wdr1 PE=1 SV=3	sp|Q5RKI0|WDR1_RAT	0.00017
sp|Q5XIF3|NDUS4_RAT NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial OS=Rattus norvegicus GN=Ndufs4 PE=1 SV=1	sp|Q5XIF3|NDUS4_RAT	0.0001
sp|Q62651|ECH1_RAT Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial OS=Rattus norvegicus GN=Ech1 PE=1 SV=2	sp|Q62651|ECH1_RAT	0.00014
sp|Q62696|DLG1_RAT Disks large homolog 1 OS=Rattus norvegicus GN=Dlg1 PE=1 SV=1	sp|Q62696|DLG1_RAT (+2)	0.00014
sp|Q62825|EXOC3_RAT Exocyst complex component 3 OS=Rattus norvegicus GN=Exoc3 PE=1 SV=1	sp|Q62825|EXOC3_RAT	0.0001
sp|Q63635|STX6_RAT Syntaxin-6 OS=Rattus norvegicus GN=Stx6 PE=1 SV=1	sp|Q63635|STX6_RAT	0.0001
sp|Q6AXX6|F213A_RAT Redox-regulatory protein FAM213A OS=Rattus norvegicus GN=Fam213a PE=1 SV=1	sp|Q6AXX6|F213A_RAT	0.00014
sp|Q6AYP7|5NT3B_RAT 7-methylguanosine phosphate-specific 5'-nucleotidase OS=Rattus norvegicus GN=Nt5c3b PE=2 SV=2	sp|Q6AYP7|5NT3B_RAT	0.0001
sp|Q6UPE1|ETFD_RAT Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial OS=Rattus norvegicus GN=Etfdh PE=1 SV=1	sp|Q6UPE1|ETFD_RAT (+1)	0.00017
sp|Q75Q41|TOM22_RAT Mitochondrial import receptor subunit TOM22 homolog OS=Rattus norvegicus GN=Tomm22 PE=1 SV=1	sp|Q75Q41|TOM22_RAT	0.0001
sp|Q91ZW1|TFAM_RAT Transcription factor A, mitochondrial OS=Rattus norvegicus GN=Tfam PE=2 SV=1	sp|Q91ZW1|TFAM_RAT	0.00014
sp|Q9EQV6|TPP1_RAT Tripeptidyl-peptidase 1 OS=Rattus norvegicus GN=Tpp1 PE=1 SV=1	sp|Q9EQV6|TPP1_RAT	0.0001
sp|Q9HB97|PARVA_RAT Alpha-parvin OS=Rattus norvegicus GN=Parva PE=1 SV=2	sp|Q9HB97|PARVA_RAT (+1)	0.0001
sp|Q9JJ22|ERAP1_RAT Endoplasmic reticulum aminopeptidase 1 OS=Rattus norvegicus GN=Erap1 PE=2 SV=2	sp|Q9JJ22|ERAP1_RAT (+1)	0.00017
sp|Q9QZR6-2|SEPT9_RAT Isoform 2 of Septin-9 OS=Rattus norvegicus GN=Sept9	sp|Q9QZR6-2|SEPT9_RAT (+2)	0.00014
sp|Q9R0L4-2|CAND2_RAT Isoform 2 of Cullin-associated NEDD8-dissociated protein 2 OS=Rattus norvegicus GN=Cand2	sp|Q9R0L4-2|CAND2_RAT (+3)	0.00017
sp|Q9Z2Q1|SC31A_RAT Protein transport protein Sec31A OS=Rattus norvegicus GN=Sec31a PE=1 SV=2	sp|Q9Z2Q1|SC31A_RAT (+2)	0.00014
tr|A0A0G2JSH5|A0A0G2JSH5_RAT Serum albumin OS=Rattus norvegicus GN=Alb PE=1 SV=1	tr|A0A0G2JSH5|A0A0G2JSH5_RAT	0.00014
tr|A0A0G2JTI7|A0A0G2JTI7_RAT Protein Prpf3 OS=Rattus norvegicus GN=Prpf3 PE=1 SV=1	tr|A0A0G2JTI7|A0A0G2JTI7_RAT (+1)	0.0001
tr|A0A0G2JWH3|A0A0G2JWH3_RAT Condensin complex subunit 1 OS=Rattus norvegicus GN=Ncapd2 PE=1 SV=1	tr|A0A0G2JWH3|A0A0G2JWH3_RAT	0.0001
tr|A0A0G2JZ60|A0A0G2JZ60_RAT Protein Fsd1l OS=Rattus norvegicus GN=Fsd1l PE=4 SV=1	tr|A0A0G2JZ60|A0A0G2JZ60_RAT	0.0001
tr|A0A0G2JZI2|A0A0G2JZI2_RAT Protein Eprs OS=Rattus norvegicus GN=Eprs PE=1 SV=1	tr|A0A0G2JZI2|A0A0G2JZI2_RAT (+1)	0.00021
tr|A0A0G2K7T6|A0A0G2K7T6_RAT Nuclear pore complex protein Nup155 OS=Rattus norvegicus GN=Nup155 PE=1 SV=1	tr|A0A0G2K7T6|A0A0G2K7T6_RAT (+1)	0.00024
tr|B0BN68|B0BN68_RAT Mitochondrial ribosomal protein S9 OS=Rattus norvegicus GN=Mrps9 PE=1 SV=1	tr|B0BN68|B0BN68_RAT	0.00014
tr|B0BNE6|B0BNE6_RAT NADH dehydrogenase (Ubiquinone) Fe-S protein 8 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Ndufs8 PE=1 SV=1	tr|B0BNE6|B0BNE6_RAT	0.00014
tr|B1WC84|B1WC84_RAT Canopy 4 homolog (Zebrafish) OS=Rattus norvegicus GN=Cnpy4 PE=1 SV=1	tr|B1WC84|B1WC84_RAT	0.00007
tr|B2RZ72|B2RZ72_RAT Actin-related protein 2/3 complex subunit 4 OS=Rattus norvegicus GN=Arpc4 PE=1 SV=1	tr|B2RZ72|B2RZ72_RAT	0.00014
tr|B5DFB2|B5DFB2_RAT Protein Rbbp4 OS=Rattus norvegicus GN=Rbbp4 PE=1 SV=1	tr|B5DFB2|B5DFB2_RAT	0.00024
tr|D3ZBX9|D3ZBX9_RAT Protein Ccdc92 OS=Rattus norvegicus GN=Ccdc92 PE=1 SV=1	tr|D3ZBX9|D3ZBX9_RAT	0.0001

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D3ZC89|D3ZC89_RAT Protein Fam114a2 OS=Rattus norvegicus GN=Fam114a2 PE=1 SV=3	tr|D3ZC89|D3ZC89_RAT	0.00014
tr|D3ZE49|D3ZE49_RAT Protein Trappc12 OS=Rattus norvegicus GN=Trappc12 PE=1 SV=1	tr|D3ZE49|D3ZE49_RAT	0.00017
tr|D3ZQ57|D3ZQ57_RAT Plexin B2 OS=Rattus norvegicus GN=Plxnb2 PE=1 SV=1	tr|D3ZQ57|D3ZQ57_RAT	0.00017
tr|D3ZTW9|D3ZTW9_RAT Endonuclease G-like 1 (Predicted), isoform CRA_d OS=Rattus norvegicus GN=Exog PE=1 SV=1	tr|D3ZTW9|D3ZTW9_RAT	0.00014
tr|D3ZUX5|D3ZUX5_RAT MICOS complex subunit OS=Rattus norvegicus GN=Chchd3 PE=1 SV=1	tr|D3ZUX5|D3ZUX5_RAT	0.00007
tr|D4A2G9|D4A2G9_RAT Protein Ranbp1 OS=Rattus norvegicus GN=Ranbp1 PE=1 SV=1	tr|D4A2G9|D4A2G9_RAT	0.00007
tr|D4A3V2|D4A3V2_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6 OS=Rattus norvegicus GN=Ndufa6 PE=1 SV=1	tr|D4A3V2|D4A3V2_RAT	0.00014
tr|D4A8A0|D4A8A0_RAT DNA fragmentation factor subunit beta OS=Rattus norvegicus GN=Cad PE=1 SV=2	tr|D4A8A0|D4A8A0_RAT	0.00021
tr|D4A8F2|D4A8F2_RAT Protein Rsu1 OS=Rattus norvegicus GN=Rsu1 PE=1 SV=3	tr|D4A8F2|D4A8F2_RAT	0.0001
tr|D4AE56|D4AE56_RAT Prostaglandin E synthase 2 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ptges2 PE=1 SV=1	tr|D4AE56|D4AE56_RAT	0.00014
tr|F1LN03|F1LN03_RAT Lysophosphatidylcholine acyltransferase 2 OS=Rattus norvegicus GN=Lpcat2 PE=1 SV=1	tr|F1LN03|F1LN03_RAT	0.00014
tr|F1LVV4|F1LVV4_RAT Protein Rcc2 OS=Rattus norvegicus GN=Rcc2 PE=1 SV=1	tr|F1LVV4|F1LVV4_RAT	0.00021
tr|F1M4U9|F1M4U9_RAT Protein Baz1a OS=Rattus norvegicus GN=Baz1a PE=1 SV=2	tr|F1M4U9|F1M4U9_RAT	0.0001
tr|G3V712|G3V712_RAT Keratin complex 2, basic, gene 7, isoform CRA_a OS=Rattus norvegicus GN=Krt7 PE=1 SV=1	tr|G3V712|G3V712_RAT	0.00028
tr|G3V9M8|G3V9M8_RAT Protein Fam50a OS=Rattus norvegicus GN=LOC100910130 PE=1 SV=1	tr|G3V9M8|G3V9M8_RAT	0.00014
tr|Q3KR55|Q3KR55_RAT Protein U2af1 OS=Rattus norvegicus GN=U2af1 PE=1 SV=1	tr|Q3KR55|Q3KR55_RAT	0.00007
tr|Q5U2N1|Q5U2N1_RAT Protein Nelfa OS=Rattus norvegicus GN=Nelfa PE=1 SV=1	tr|Q5U2N1|Q5U2N1_RAT	0.00014
tr|Q5U2S7|Q5U2S7_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 3 OS=Rattus norvegicus GN=Psmd3 PE=1 SV=1	tr|Q5U2S7|Q5U2S7_RAT	0.00014
tr|Q5XI21|Q5XI21_RAT Protein Tom1 OS=Rattus norvegicus GN=Tom1 PE=1 SV=1	tr|Q5XI21|Q5XI21_RAT	0.00007
sp|P12075|COX5B_RAT Cytochrome c oxidase subunit 5B, mitochondrial OS=Rattus norvegicus GN=Cox5b PE=1 SV=2	sp|P12075|COX5B_RAT	0.00017
sp|Q62698|DC1L2_RAT Cytoplasmic dynein 1 light intermediate chain 2 OS=Rattus norvegicus GN=Dync1li2 PE=1 SV=1	sp|Q62698|DC1L2_RAT (+2)	0.00014
sp|Q5M936|TOR3A_RAT Torsin-3A OS=Rattus norvegicus GN=Tor3a PE=2 SV=1	sp|Q5M936|TOR3A_RAT	0.00017
sp|P11951|CX6C2_RAT Cytochrome c oxidase subunit 6C-2 OS=Rattus norvegicus GN=Cox6c2 PE=1 SV=3	sp|P11951|CX6C2_RAT	0.00017
Cluster of tr|D3ZK73|D3ZK73_RAT Cullin 4B (Predicted) OS=Rattus norvegicus GN=Cul4b PE=1 SV=1 (tr|D3ZK73|D3ZK73_RAT)	tr|D3ZK73|D3ZK73_RAT [2]	0.00021
tr|D3ZK73|D3ZK73_RAT Cullin 4B (Predicted) OS=Rattus norvegicus GN=Cul4b PE=1 SV=1	tr|D3ZK73|D3ZK73_RAT	0.00017
tr|B2RYJ3|B2RYJ3_RAT Protein Cul4a OS=Rattus norvegicus GN=Cul4a PE=1 SV=1	tr|B2RYJ3|B2RYJ3_RAT	0.0001
tr|D4ABT8|D4ABT8_RAT Protein Hnrnpul2 OS=Rattus norvegicus GN=Hnrnpul2 PE=1 SV=1	tr|D4ABT8|D4ABT8_RAT	0.00007
Cluster of tr|A0A0G2JZS1|A0A0G2JZS1_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna6 PE=1 SV=1 (tr|A0A0G2JZS1|A0A0G2JZS1_RAT)	tr|A0A0G2JZS1|A0A0G2JZS1_RAT [4]	0.00007
tr|A0A0G2JZS1|A0A0G2JZS1_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna6 PE=1 SV=1	tr|A0A0G2JZS1|A0A0G2JZS1_RAT (+1)	0.00007
sp|P83953|IMA5_RAT Importin subunit alpha-5 OS=Rattus norvegicus GN=Kpna1 PE=1 SV=1	sp|P83953|IMA5_RAT (+1)	0.000035
sp|B0BNF1|SEPT8_RAT Septin-8 OS=Rattus norvegicus GN=Sept8 PE=1 SV=1	sp|B0BNF1|SEPT8_RAT (+3)	0.00024
sp|B1H268|MCMBP_RAT Mini-chromosome maintenance complex-binding protein OS=Rattus norvegicus GN=Mcmbp PE=2 SV=1	sp|B1H268|MCMBP_RAT	0.0001
sp|G3V9D0|PGLT1_RAT Protein O-glucosyltransferase 1 OS=Rattus norvegicus GN=Poglut1 PE=3 SV=1	sp|G3V9D0|PGLT1_RAT	0.0001
sp|O35244|PRDX6_RAT Peroxiredoxin-6 OS=Rattus norvegicus GN=Prdx6 PE=1 SV=3	sp|O35244|PRDX6_RAT	0.00014
sp|O35952-2|GLO2_RAT Isoform 2 of Hydroxyacylglutathione hydrolase, mitochondrial OS=Rattus norvegicus GN=Hagh	sp|O35952-2|GLO2_RAT (+2)	0.00017
Cluster of sp|O55043|ARHG7_RAT Rho guanine nucleotide exchange factor 7 OS=Rattus norvegicus GN=Arhgef7 PE=1 SV=1 (sp|O55043|ARHG7_RAT)	sp|O55043|ARHG7_RAT [2]	0.00014
sp|O55043|ARHG7_RAT Rho guanine nucleotide exchange factor 7 OS=Rattus norvegicus GN=Arhgef7 PE=1 SV=1	sp|O55043|ARHG7_RAT (+1)	0.00014
sp|O70257|STX7_RAT Syntaxin-7 OS=Rattus norvegicus GN=Stx7 PE=1 SV=4	sp|O70257|STX7_RAT (+2)	0.00014
sp|P06766|DPOLB_RAT DNA polymerase beta OS=Rattus norvegicus GN=Polb PE=1 SV=4	sp|P06766|DPOLB_RAT	0.0001
sp|P07340|AT1B1_RAT Sodium/potassium-transporting ATPase subunit beta-1 OS=Rattus norvegicus GN=Atp1b1 PE=1 SV=1	sp|P07340|AT1B1_RAT	0.00007
sp|P08503|ACADM_RAT Medium-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Acadm PE=1 SV=1	sp|P08503|ACADM_RAT (+1)	0.00017
sp|P11497-2|ACACA_RAT Isoform 2 of Acetyl-CoA carboxylase 1 OS=Rattus norvegicus GN=Acaca	sp|P11497-2|ACACA_RAT (+2)	0.00021
sp|P15651|ACADS_RAT Short-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Acads PE=1 SV=2	sp|P15651|ACADS_RAT (+1)	0.00014
sp|P25113|PGAM1_RAT Phosphoglycerate mutase 1 OS=Rattus norvegicus GN=Pgam1 PE=1 SV=4	sp|P25113|PGAM1_RAT	0.0001
sp|P29419|ATP5I_RAT ATP synthase subunit e, mitochondrial OS=Rattus norvegicus GN=Atp5i PE=1 SV=3	sp|P29419|ATP5I_RAT	0.00014
sp|P35738|ODBB_RAT 2-oxoisovalerate dehydrogenase subunit beta, mitochondrial OS=Rattus norvegicus GN=Bckdhb PE=1 SV=3	sp|P35738|ODBB_RAT (+1)	0.0001
sp|P40615|DKC1_RAT H/ACA ribonucleoprotein complex subunit 4 OS=Rattus norvegicus GN=Dkc1 PE=1 SV=4	sp|P40615|DKC1_RAT	0.00007
sp|P41565|IDHG1_RAT Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial OS=Rattus norvegicus GN=Idh3g PE=1 SV=2	sp|P41565|IDHG1_RAT (+1)	0.00014
sp|P58200|VTI1B_RAT Vesicle transport through interaction with t-SNAREs homolog 1B OS=Rattus norvegicus GN=Vti1b PE=1 SV=2	sp|P58200|VTI1B_RAT (+1)	0.0001
sp|P62628|DLRB1_RAT Dynein light chain roadblock-type 1 OS=Rattus norvegicus GN=Dynlrb1 PE=1 SV=3	sp|P62628|DLRB1_RAT	0.00014
sp|P70501|RBM10_RAT RNA-binding protein 10 OS=Rattus norvegicus GN=Rbm10 PE=1 SV=1	sp|P70501|RBM10_RAT	0.00007
sp|P84100|RL19_RAT 60S ribosomal protein L19 OS=Rattus norvegicus GN=Rpl19 PE=1 SV=1	sp|P84100|RL19_RAT	0.00014
sp|P97546-1|NPTN_RAT Isoform 1 of Neuroplastin OS=Rattus norvegicus GN=Nptn	sp|P97546-1|NPTN_RAT	0.0001
sp|Q2HWF0-2|FBP1L_RAT Isoform 2 of Formin-binding protein 1-like OS=Rattus norvegicus GN=Fnbp1l	sp|Q2HWF0-2|FBP1L_RAT (+2)	0.00007
sp|Q3B7D0|HEM6_RAT Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial OS=Rattus norvegicus GN=Cpox PE=1 SV=1	sp|Q3B7D0|HEM6_RAT	0.00014
sp|Q3SWS8|RAE1L_RAT mRNA export factor OS=Rattus norvegicus GN=Rae1 PE=1 SV=1	sp|Q3SWS8|RAE1L_RAT	0.00007
sp|Q4KLL0|TCEA1_RAT Transcription elongation factor A protein 1 OS=Rattus norvegicus GN=Tcea1 PE=1 SV=1	sp|Q4KLL0|TCEA1_RAT	0.00007
sp|Q5FWY5|AIP_RAT AH receptor-interacting protein OS=Rattus norvegicus GN=Aip PE=1 SV=1	sp|Q5FWY5|AIP_RAT	0.0001
sp|Q5GFD9|IMPCT_RAT Protein IMPACT OS=Rattus norvegicus GN=Impact PE=1 SV=1	sp|Q5GFD9|IMPCT_RAT	0.00014
sp|Q5HZY0|UBXN4_RAT UBX domain-containing protein 4 OS=Rattus norvegicus GN=Ubxn4 PE=1 SV=1	sp|Q5HZY0|UBXN4_RAT	0.0001
sp|Q5I034|CL043_RAT Uncharacterized protein C12orf43 homolog OS=Rattus norvegicus PE=1 SV=1	sp|Q5I034|CL043_RAT	0.00007
sp|Q5PQJ6|P5CR3_RAT Pyrroline-5-carboxylate reductase 3 OS=Rattus norvegicus GN=Pycrl PE=2 SV=1	sp|Q5PQJ6|P5CR3_RAT	0.00014
sp|Q62638|GSLG1_RAT Golgi apparatus protein 1 OS=Rattus norvegicus GN=Glg1 PE=1 SV=1	sp|Q62638|GSLG1_RAT (+1)	0.00014
sp|Q63692|CDC37_RAT Hsp90 co-chaperone Cdc37 OS=Rattus norvegicus GN=Cdc37 PE=1 SV=2	sp|Q63692|CDC37_RAT (+1)	0.0001
sp|Q64654|CP51A_RAT Lanosterol 14-alpha demethylase OS=Rattus norvegicus GN=Cyp51a1 PE=2 SV=1	sp|Q64654|CP51A_RAT	0.0001
sp|Q66H15|RMD3_RAT Regulator of microtubule dynamics protein 3 OS=Rattus norvegicus GN=Rmdn3 PE=1 SV=1	sp|Q66H15|RMD3_RAT	0.000035
sp|Q66H39|ABCF3_RAT ATP-binding cassette sub-family F member 3 OS=Rattus norvegicus GN=Abcf3 PE=2 SV=1	sp|Q66H39|ABCF3_RAT	0.00007
sp|Q68FY1|NUP53_RAT Nucleoporin NUP53 OS=Rattus norvegicus GN=Nup35 PE=1 SV=1	sp|Q68FY1|NUP53_RAT	0.0001

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q6NX65|PDC10_RAT Programmed cell death protein 10 OS=Rattus norvegicus GN=Pdcd10 PE=2 SV=1	sp|Q6NX65|PDC10_RAT	0.0001
sp|Q6P7A9|LYAG_RAT Lysosomal alpha-glucosidase OS=Rattus norvegicus GN=Gaa PE=2 SV=1	sp|Q6P7A9|LYAG_RAT	0.0001
sp|Q6P7R8|DHB12_RAT Very-long-chain 3-oxoacyl-CoA reductase OS=Rattus norvegicus GN=Hsd17b12 PE=2 SV=1	sp|Q6P7R8|DHB12_RAT	0.00014
sp|Q6PEC4|SKP1_RAT S-phase kinase-associated protein 1 OS=Rattus norvegicus GN=Skp1 PE=1 SV=3	sp|Q6PEC4|SKP1_RAT (+1)	0.00007
sp|Q6RUV5|RAC1_RAT Ras-related C3 botulinum toxin substrate 1 OS=Rattus norvegicus GN=Rac1 PE=1 SV=1	sp|Q6RUV5|RAC1_RAT (+1)	0.0001
sp|Q793F9|VPS4A_RAT Vacuolar protein sorting-associated protein 4A OS=Rattus norvegicus GN=Vps4a PE=1 SV=1	sp|Q793F9|VPS4A_RAT (+1)	0.00017
sp|Q7M0E7|RM14_RAT 39S ribosomal protein L14, mitochondrial OS=Rattus norvegicus GN=Mrpl14 PE=1 SV=2	sp|Q7M0E7|RM14_RAT	0.0001
sp|Q7TQ20|DNJC2_RAT DnaJ homolog subfamily C member 2 OS=Rattus norvegicus GN=Dnajc2 PE=1 SV=1	sp|Q7TQ20|DNJC2_RAT (+1)	0.00007
sp|Q920A6|RISC_RAT Retinoid-inducible serine carboxypeptidase OS=Rattus norvegicus GN=Scpep1 PE=2 SV=1	sp|Q920A6|RISC_RAT	0.00017
sp|Q920R4|GASP1_RAT G-protein coupled receptor-associated sorting protein 1 OS=Rattus norvegicus GN=Gprasp1 PE=1 SV=1	sp|Q920R4|GASP1_RAT (+1)	0.00017
sp|Q923W4|HDGR3_RAT Hepatoma-derived growth factor-related protein 3 OS=Rattus norvegicus GN=Hdgfrp3 PE=1 SV=1	sp|Q923W4|HDGR3_RAT	0.00021
sp|Q925G1-2|HDGR2_RAT Isoform 2 of Hepatoma-derived growth factor-related protein 2 OS=Rattus norvegicus GN=Hdgfrp2	sp|Q925G1-2|HDGR2_RAT (+2)	0.00017
sp|Q9EQX9|UBE2N_RAT Ubiquitin-conjugating enzyme E2 N OS=Rattus norvegicus GN=Ube2n PE=1 SV=1	sp|Q9EQX9|UBE2N_RAT	0.0001
sp|Q9ERR2|COMD5_RAT COMM domain-containing protein 5 OS=Rattus norvegicus GN=Commd5 PE=2 SV=1	sp|Q9ERR2|COMD5_RAT (+1)	0.00017
sp|Q9JHU0|DPYL5_RAT Dihydropyrimidinase-related protein 5 OS=Rattus norvegicus GN=Dpysl5 PE=1 SV=1	sp|Q9JHU0|DPYL5_RAT	0.00014
sp|Q9JI85|NUCB2_RAT Nucleobindin-2 OS=Rattus norvegicus GN=Nucb2 PE=1 SV=1	sp|Q9JI85|NUCB2_RAT (+1)	0.00017
sp|Q9JID1-2|PDCD4_RAT Isoform 2 of Programmed cell death protein 4 OS=Rattus norvegicus GN=Pdcd4	sp|Q9JID1-2|PDCD4_RAT (+1)	0.0001
sp|Q9JJM9-2|SEPT5_RAT Isoform 2 of Septin-5 OS=Rattus norvegicus GN=Sept5	sp|Q9JJM9-2|SEPT5_RAT (+4)	0.00014
sp|Q9QYG8|UCK2_RAT Uridine-cytidine kinase 2 OS=Rattus norvegicus GN=Uck2 PE=2 SV=2	sp|Q9QYG8|UCK2_RAT (+1)	0.0001
sp|Q9WTT7|BZW2_RAT Basic leucine zipper and W2 domain-containing protein 2 OS=Rattus norvegicus GN=Bzw2 PE=1 SV=1	sp|Q9WTT7|BZW2_RAT	0.00017
tr|A0A0G2JUB4|A0A0G2JUB4_RAT Acetyl-CoA acetyltransferase, cytosolic OS=Rattus norvegicus GN=Acat2 PE=1 SV=1	tr|A0A0G2JUB4|A0A0G2JUB4_RAT (+1)	0.00014
tr|A0A0G2JXY1|A0A0G2JXY1_RAT Hyaluronan-mediated motility receptor OS=Rattus norvegicus GN=Hmmr PE=4 SV=1	tr|A0A0G2JXY1|A0A0G2JXY1_RAT	0.00017
tr|A0A0G2JZF6|A0A0G2JZF6_RAT Protein Ndufaf2 OS=Rattus norvegicus GN=Ndufaf2 PE=1 SV=1	tr|A0A0G2JZF6|A0A0G2JZF6_RAT	0.00007
tr|A0A0G2K264|A0A0G2K264_RAT Disks large-associated protein 3 OS=Rattus norvegicus GN=Dap3 PE=1 SV=1	tr|A0A0G2K264|A0A0G2K264_RAT (+1)	0.0001
tr|A0A0G2K2M9|A0A0G2K2M9_RAT Protein Srrm2 OS=Rattus norvegicus GN=Srrm2 PE=1 SV=1	tr|A0A0G2K2M9|A0A0G2K2M9_RAT	0.00007
tr|A0A0G2K435|A0A0G2K435_RAT Protein Dnajc7 OS=Rattus norvegicus GN=Dnajc7 PE=1 SV=1	tr|A0A0G2K435|A0A0G2K435_RAT	0.00014
tr|A0A0G2KAP1|A0A0G2KAP1_RAT Protein Ero1b OS=Rattus norvegicus GN=Ero1b PE=1 SV=1	tr|A0A0G2KAP1|A0A0G2KAP1_RAT	0.00017
tr|B0BNB5|B0BNB5_RAT LOC683983 protein OS=Rattus norvegicus GN=Nup43 PE=1 SV=1	tr|B0BNB5|B0BNB5_RAT (+1)	0.0001
tr|B1WBY7|B1WBY7_RAT ER lipid raft associated 1 OS=Rattus norvegicus GN=Erlin1 PE=1 SV=1	tr|B1WBY7|B1WBY7_RAT	0.00017
tr|B2GV72|B2GV72_RAT Carbonyl reductase 3 OS=Rattus norvegicus GN=Cbr3 PE=1 SV=1	tr|B2GV72|B2GV72_RAT	0.00017
tr|B2RYP6|B2RYP6_RAT LUC7-like 2 (S. cerevisiae) OS=Rattus norvegicus GN=Luc7l2 PE=1 SV=1	tr|B2RYP6|B2RYP6_RAT	0.00014
tr|B2RYW3|B2RYW3_RAT NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 9 OS=Rattus norvegicus GN=Ndufb9 PE=1 SV=1	tr|B2RYW3|B2RYW3_RAT	0.0001
tr|B5DF46|B5DF46_RAT Phosphomannomutase OS=Rattus norvegicus GN=Pmm2 PE=1 SV=1	tr|B5DF46|B5DF46_RAT	0.0001
Cluster of tr|B5DF60|B5DF60_RAT Eukaryotic translation initiation factor 1A, Y-linked OS=Rattus norvegicus GN=Eif1ax PE=1 SV=1 (tr|B5DF60|B5DF60_RAT)	tr|B5DF60|B5DF60_RAT [3]	0.00014
tr|B5DF60|B5DF60_RAT Eukaryotic translation initiation factor 1A, Y-linked OS=Rattus norvegicus GN=Eif1ax PE=1 SV=1	tr|B5DF60|B5DF60_RAT	0.00014
sp|Q6VV72|IF1A_RAT Eukaryotic translation initiation factor 1A OS=Rattus norvegicus GN=Eif1a PE=2 SV=3	sp|Q6VV72|IF1A_RAT (+1)	0.0001
tr|D3ZAQ6|D3ZAQ6_RAT Protein Nol7 OS=Rattus norvegicus GN=Nol7 PE=1 SV=3	tr|D3ZAQ6|D3ZAQ6_RAT	0.00017
tr|D3ZC82|D3ZC82_RAT Protein Nufip2 OS=Rattus norvegicus GN=Nufip2 PE=1 SV=2	tr|D3ZC82|D3ZC82_RAT	0.0001
tr|D3ZIV3|D3ZIV3_RAT Protein Mad1l1 OS=Rattus norvegicus GN=Mad1l1 PE=1 SV=1	tr|D3ZIV3|D3ZIV3_RAT	0.00014
tr|D3ZJR1|D3ZJR1_RAT Protein Eps15l1 OS=Rattus norvegicus GN=Eps15l1 PE=1 SV=3	tr|D3ZJR1|D3ZJR1_RAT	0.0001
tr|D3ZML3|D3ZML3_RAT Cyclin-dependent kinase 11B OS=Rattus norvegicus GN=Cdk11b PE=1 SV=2	tr|D3ZML3|D3ZML3_RAT (+1)	0.0001
tr|D3ZT52|D3ZT52_RAT Protein Pbrm1 OS=Rattus norvegicus GN=Pbrm1 PE=1 SV=2	tr|D3ZT52|D3ZT52_RAT	0.00014
tr|D3ZUC9|D3ZUC9_RAT Oxidative-stress responsive 1 (Predicted) OS=Rattus norvegicus GN=Oxsr1 PE=1 SV=1	tr|D3ZUC9|D3ZUC9_RAT	0.0001
tr|D3ZUK4|D3ZUK4_RAT Protein Trim33 OS=Rattus norvegicus GN=Trim33 PE=1 SV=3	tr|D3ZUK4|D3ZUK4_RAT	0.0001
tr|D3ZVA5|D3ZVA5_RAT Protein Fbll1 OS=Rattus norvegicus GN=Fbll1 PE=3 SV=2	tr|D3ZVA5|D3ZVA5_RAT	0.00014
tr|D4A1J6|D4A1J6_RAT Protein Ankfy1 OS=Rattus norvegicus GN=Ankfy1 PE=1 SV=3	tr|D4A1J6|D4A1J6_RAT	0.00017
tr|D4A4Y0|D4A4Y0_RAT Protein Exosc4 OS=Rattus norvegicus GN=Exosc4 PE=1 SV=1	tr|D4A4Y0|D4A4Y0_RAT	0.00017
tr|D4A864|D4A864_RAT Polypeptide N-acetylgalactosaminyltransferase OS=Rattus norvegicus GN=Galnt6 PE=3 SV=1	tr|D4A864|D4A864_RAT	0.00017
tr|D4A914|D4A914_RAT 5'-3' exoribonuclease 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Xrn2 PE=1 SV=3	tr|D4A914|D4A914_RAT	0.00014
tr|D4ABK7|D4ABK7_RAT Heterogeneous nuclear ribonucleoprotein H3 (2H9) (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Hnrnph3 PE=1 SV=1	tr|D4ABK7|D4ABK7_RAT	0.00014
tr|D4AE65|D4AE65_RAT Protein Rrp7a OS=Rattus norvegicus GN=Rrp7a PE=1 SV=1	tr|D4AE65|D4AE65_RAT	0.0001
tr|F1LLX6|F1LLX6_RAT Calcium-dependent secretion activator 1 OS=Rattus norvegicus GN=Cadps PE=1 SV=2	tr|F1LLX6|F1LLX6_RAT	0.00017
tr|F1LML0|F1LML0_RAT Protein Nars OS=Rattus norvegicus GN=Nars PE=1 SV=1	tr|F1LML0|F1LML0_RAT (+2)	0.0001
tr|F1LPV8|F1LPV8_RAT Succinyl-CoA ligase subunit beta OS=Rattus norvegicus GN=Suclg2 PE=1 SV=2	tr|F1LPV8|F1LPV8_RAT	0.00017
tr|F1LU48|F1LU48_RAT Protein Ergic1 OS=Rattus norvegicus GN=Ergic1 PE=1 SV=2	tr|F1LU48|F1LU48_RAT	0.00007
tr|F1LU71|F1LU71_RAT AU RNA binding protein/enoyl-coenzyme A hydratase (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Auh PE=1 SV=2	tr|F1LU71|F1LU71_RAT	0.00014
tr|F7EQ81|F7EQ81_RAT N-acetylglucosamine-6-sulfatase OS=Rattus norvegicus GN=Gns PE=1 SV=1	tr|F7EQ81|F7EQ81_RAT (+1)	0.000035
tr|F7F707|F7F707_RAT Enhancer of mRNA-decapping protein 4 OS=Rattus norvegicus GN=Nrn1l PE=1 SV=2	tr|F7F707|F7F707_RAT	0.0001
tr|G3V624|G3V624_RAT Coronin OS=Rattus norvegicus GN=Coro1c PE=1 SV=1	tr|G3V624|G3V624_RAT	0.00014
tr|G3V6U3|G3V6U3_RAT Asparagine-linked glycosylation 2 homolog (Yeast, alpha-1,3-mannosyltransferase), isoform CRA_a OS=Rattus norvegicus GN=Alg2 PE	tr|G3V6U3|G3V6U3_RAT	0.0001
tr|G3V7G9|G3V7G9_RAT Eukaryotic translation initiation factor 3, subunit 6 interacting protein OS=Rattus norvegicus GN=Eif3l PE=1 SV=2	tr|G3V7G9|G3V7G9_RAT	0.00017
tr|G3V8R7|G3V8R7_RAT Protein Gatad2a OS=Rattus norvegicus GN=Gatad2a PE=1 SV=2	tr|G3V8R7|G3V8R7_RAT	0.00014
tr|G3V992|G3V992_RAT General transcription factor II E, polypeptide 1 (Alpha subunit) OS=Rattus norvegicus GN=Gtf2e1 PE=1 SV=1	tr|G3V992|G3V992_RAT	0.0001
tr|M0R3S3|M0R3S3_RAT Protein Chaf1a OS=Rattus norvegicus GN=Chaf1a PE=4 SV=2	tr|M0R3S3|M0R3S3_RAT	0.00017
tr|Q4QQS7|Q4QQS7_RAT Protein Umps OS=Rattus norvegicus GN=Umps PE=1 SV=1	tr|Q4QQS7|Q4QQS7_RAT	0.0001
tr|Q52KJ9|Q52KJ9_RAT Protein Tmx1 OS=Rattus norvegicus GN=Tmx1 PE=1 SV=1	tr|Q52KJ9|Q52KJ9_RAT	0.00017
tr|Q569C9|Q569C9_RAT Golgi phosphoprotein 3 OS=Rattus norvegicus GN=Golph3 PE=1 SV=1	tr|Q569C9|Q569C9_RAT	0.0001
tr|Q5I0F0|Q5I0F0_RAT Developmentally regulated GTP binding protein 1 OS=Rattus norvegicus GN=Drg1 PE=1 SV=1	tr|Q5I0F0|Q5I0F0_RAT	0.00021

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|Q5RJK9|Q5RJK9_RAT Polymerase (RNA) I polypeptide C OS=Rattus norvegicus GN=Polr1c PE=1 SV=1	tr|Q5RJK9|Q5RJK9_RAT	0.00014
tr|Q5U1Z9|Q5U1Z9_RAT Metaxin 2 OS=Rattus norvegicus GN=Mtx2 PE=1 SV=1	tr|Q5U1Z9|Q5U1Z9_RAT	0.00014
tr|Q5U2X8|Q5U2X8_RAT Acyl-CoA thioesterase 9 OS=Rattus norvegicus GN=Acot9 PE=1 SV=1	tr|Q5U2X8|Q5U2X8_RAT	0.00014
tr|Q5XI86|Q5XI86_RAT Peptidyl-tRNA hydrolase 2 OS=Rattus norvegicus GN=Ptrh2 PE=1 SV=1	tr|Q5XI86|Q5XI86_RAT	0.00014
Cluster of tr|Q68FX3|Q68FX3_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 19a OS=Rattus norvegicus GN=Ddx19a PE=1 SV=1 (tr|Q68FX3|Q68FX3_RAT)	tr|Q68FX3|Q68FX3_RAT	0.00014
tr|Q68FX3|Q68FX3_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 19a OS=Rattus norvegicus GN=Ddx19a PE=1 SV=1	tr|Q68FX3|Q68FX3_RAT	0.00014
tr|Q6QI86|Q6QI86_RAT Haloacid dehalogenase-like hydrolase domain-containing protein 2 OS=Rattus norvegicus GN=Hdhd2 PE=1 SV=1	tr|Q6QI86|Q6QI86_RAT	0.00014
sp|Q8CGU6|NICA_RAT Nicastrin OS=Rattus norvegicus GN=Ncstn PE=1 SV=1	sp|Q8CGU6|NICA_RAT (+1)	0.00017
tr|D3ZEI0|D3ZEI0_RAT Protein LOC690096 OS=Rattus norvegicus GN=LOC690096 PE=4 SV=2	tr|D3ZEI0|D3ZEI0_RAT	0.00014
tr|G3V7F6|G3V7F6_RAT Protein RGD1561590 OS=Rattus norvegicus GN=RGD1561590 PE=1 SV=1	tr|G3V7F6|G3V7F6_RAT	0.0001
sp|B4F777|HMGN5_RAT High mobility group nucleosome-binding domain-containing protein 5 OS=Rattus norvegicus GN=Hmgn5 PE=2 SV=1	sp|B4F777|HMGN5_RAT	0.00014
tr|Q4V8Q2|Q4V8Q2_RAT Protein Spint1 OS=Rattus norvegicus GN=Spint1 PE=2 SV=1	tr|Q4V8Q2|Q4V8Q2_RAT	0.00014
sp|P40112|PSB3_RAT Proteasome subunit beta type-3 OS=Rattus norvegicus GN=Psmb3 PE=1 SV=1	sp|P40112|PSB3_RAT	0.00014
sp|Q63750|RM23_RAT 39S ribosomal protein L23, mitochondrial OS=Rattus norvegicus GN=Mrpl23 PE=2 SV=1	sp|Q63750|RM23_RAT	0.0001
sp|Q66HG9|MAVS_RAT Mitochondrial antiviral-signaling protein OS=Rattus norvegicus GN=Mavs PE=1 SV=1	sp|Q66HG9|MAVS_RAT	0.00014
sp|P08082-2|CLCB_RAT Isoform Non-brain of Clathrin light chain B OS=Rattus norvegicus GN=Cltb	sp|P08082-2|CLCB_RAT (+1)	0.00014
Cluster of tr|D3ZWS0|D3ZWS0_RAT Protein Scrib OS=Rattus norvegicus GN=Scrib PE=1 SV=1 (tr|D3ZWS0|D3ZWS0_RAT)	tr|D3ZWS0|D3ZWS0_RAT	0.0001
tr|D3ZWS0|D3ZWS0_RAT Protein Scrib OS=Rattus norvegicus GN=Scrib PE=1 SV=1	tr|D3ZWS0|D3ZWS0_RAT	0.0001
tr|D3ZR52|D3ZR52_RAT Protein Lpcat4 OS=Rattus norvegicus GN=Lpcat4 PE=4 SV=3	tr|D3ZR52|D3ZR52_RAT	0.0001
sp|B0BNA7|EIF3I_RAT Eukaryotic translation initiation factor 3 subunit I OS=Rattus norvegicus GN=Eif3i PE=2 SV=1	sp|B0BNA7|EIF3I_RAT	0.000035
sp|B0BNG0|EMC2_RAT ER membrane protein complex subunit 2 OS=Rattus norvegicus GN=Emc2 PE=2 SV=1	sp|B0BNG0|EMC2_RAT (+1)	0.0001
sp|B2RZ78-2|VPS29_RAT Isoform 2 of Vacuolar protein sorting-associated protein 29 OS=Rattus norvegicus GN=Vps29	sp|B2RZ78-2|VPS29_RAT (+2)	0.0001
sp|B3DMA0|P5I11_RAT Tumor protein p53-inducible protein 11 OS=Rattus norvegicus GN=Tp53i11 PE=1 SV=1	sp|B3DMA0|P5I11_RAT	0.0001
sp|O35142|COPB2_RAT Coatomer subunit beta' OS=Rattus norvegicus GN=Copb2 PE=1 SV=3	sp|O35142|COPB2_RAT	0.00014
sp|O35986|ZRAB2_RAT Zinc finger Ran-binding domain-containing protein 2 OS=Rattus norvegicus GN=Zranb2 PE=1 SV=2	sp|O35986|ZRAB2_RAT (+1)	0.0001
sp|O55159|EPCAM_RAT Epithelial cell adhesion molecule OS=Rattus norvegicus GN=Epcam PE=1 SV=1	sp|O55159|EPCAM_RAT	0.0001
sp|O70454|BUD31_RAT Protein BUD31 homolog OS=Rattus norvegicus GN=Bud31 PE=2 SV=2	sp|O70454|BUD31_RAT (+1)	0.00007
sp|O88761|PSMD1_RAT 26S proteasome non-ATPase regulatory subunit 1 OS=Rattus norvegicus GN=Psmd1 PE=1 SV=1	sp|O88761|PSMD1_RAT (+2)	0.00014
sp|O88767|PARK7_RAT Protein deglycase DJ-1 OS=Rattus norvegicus GN=Park7 PE=1 SV=1	sp|O88767|PARK7_RAT	0.0001
sp|P07335|KCRB_RAT Creatine kinase B-type OS=Rattus norvegicus GN=Ckb PE=1 SV=2	sp|P07335|KCRB_RAT	0.00007
sp|P13697|MAOX_RAT NADP-dependent malic enzyme OS=Rattus norvegicus GN=Me1 PE=1 SV=2	sp|P13697|MAOX_RAT (+2)	0.0001
sp|P22288|GCH1_RAT GTP cyclohydrolase 1 OS=Rattus norvegicus GN=Gch1 PE=1 SV=1	sp|P22288|GCH1_RAT	0.00007
sp|P23640|RB27A_RAT Ras-related protein Rab-27A OS=Rattus norvegicus GN=Rab27a PE=1 SV=1	sp|P23640|RB27A_RAT	0.0001
sp|P30919|ASPG_RAT N(4)-(Beta-N-acetylglucosaminyl)-L-asparaginase OS=Rattus norvegicus GN=Aga PE=1 SV=2	sp|P30919|ASPG_RAT	0.0001
sp|P48508|GSH0_RAT Glutamate--cysteine ligase regulatory subunit OS=Rattus norvegicus GN=Gclm PE=1 SV=1	sp|P48508|GSH0_RAT	0.0001
sp|P49793|NUP98_RAT Nuclear pore complex protein Nup98-Nup96 OS=Rattus norvegicus GN=Nup98 PE=1 SV=2	sp|P49793|NUP98_RAT	0.0001
sp|P50503|F10A1_RAT Hsc70-interacting protein OS=Rattus norvegicus GN=St13 PE=1 SV=1	sp|P50503|F10A1_RAT	0.0001
sp|P53676|AP3M1_RAT AP-3 complex subunit mu-1 OS=Rattus norvegicus GN=Ap3m1 PE=1 SV=1	sp|P53676|AP3M1_RAT (+1)	0.0001
sp|P61983|1433G_RAT 14-3-3 protein gamma OS=Rattus norvegicus GN=Ywhag PE=1 SV=2	sp|P61983|1433G_RAT	0.00052
sp|P62864|RS30_RAT 40S ribosomal protein S30 OS=Rattus norvegicus GN=Fau PE=1 SV=1	sp|P62864|RS30_RAT (+1)	0.0001
sp|P62870|ELOB_RAT Transcription elongation factor B polypeptide 2 OS=Rattus norvegicus GN=Tceb2 PE=1 SV=1	sp|P62870|ELOB_RAT	0.00007
sp|P62997|TRA2B_RAT Transformer-2 protein homolog beta OS=Rattus norvegicus GN=Tra2b PE=1 SV=1	sp|P62997|TRA2B_RAT	0.00007
sp|P63004|LIS1_RAT Platelet-activating factor acetylhydrolase IB subunit alpha OS=Rattus norvegicus GN=Pafah1b1 PE=1 SV=2	sp|P63004|LIS1_RAT	0.00014
sp|Q02769|FDFT_RAT Squalene synthase OS=Rattus norvegicus GN=Fdft1 PE=2 SV=1	sp|Q02769|FDFT_RAT	0.0001
sp|Q03346|MPPB_RAT Mitochondrial-processing peptidase subunit beta OS=Rattus norvegicus GN=Pmpcb PE=1 SV=3	sp|Q03346|MPPB_RAT	0.0001
sp|Q1RP77|NOP16_RAT Nucleolar protein 16 OS=Rattus norvegicus GN=Nop16 PE=2 SV=1	sp|Q1RP77|NOP16_RAT	0.00007
sp|Q32PX2|AIMP2_RAT Aminoacyl tRNA synthase complex-interacting multifunctional protein 2 OS=Rattus norvegicus GN=Aimp2 PE=2 SV=1	sp|Q32PX2|AIMP2_RAT	0.00014
sp|Q3KRC5|DUS3L_RAT tRNA-dihydrouridine(47) synthase [NAD(P)(+)]-like OS=Rattus norvegicus GN=Dus3l PE=2 SV=1	sp|Q3KRC5|DUS3L_RAT (+1)	0.0001
sp|Q3SWT4|IWS1_RAT Protein IWS1 homolog OS=Rattus norvegicus GN=Iws1 PE=1 SV=1	sp|Q3SWT4|IWS1_RAT (+1)	0.00007
sp|Q4QQU6|SPF30_RAT Survival of motor neuron-related-splicing factor 30 OS=Rattus norvegicus GN=Smndc1 PE=2 SV=1	sp|Q4QQU6|SPF30_RAT	0.00007
sp|Q5BJT4|TXD15_RAT Thioredoxin domain-containing protein 15 OS=Rattus norvegicus GN=Txndc15 PE=2 SV=1	sp|Q5BJT4|TXD15_RAT	0.0001
sp|Q5BJX0|NTM1A_RAT N-terminal Xaa-Pro-Lys N-methyltransferase 1 OS=Rattus norvegicus GN=Ntmt1 PE=2 SV=3	sp|Q5BJX0|NTM1A_RAT	0.0001
sp|Q5FVR6|CMS1_RAT Protein CMSS1 OS=Rattus norvegicus GN=Cmss1 PE=1 SV=1	sp|Q5FVR6|CMS1_RAT (+1)	0.00017
sp|Q5FWT1|FA98A_RAT Protein FAM98A OS=Rattus norvegicus GN=Fam98a PE=2 SV=1	sp|Q5FWT1|FA98A_RAT	0.00014
sp|Q5I0L4|NUBP1_RAT Cytosolic Fe-S cluster assembly factor NUBP1 OS=Rattus norvegicus GN=Nubp1 PE=1 SV=1	sp|Q5I0L4|NUBP1_RAT	0.00007
sp|Q5M856|SPC25_RAT Kinetochore protein Spc25 OS=Rattus norvegicus GN=Spc25 PE=2 SV=1	sp|Q5M856|SPC25_RAT	0.00007
sp|Q5PPL2|DCNL5_RAT DCN1-like protein 5 OS=Rattus norvegicus GN=Dcun1d5 PE=2 SV=1	sp|Q5PPL2|DCNL5_RAT	0.0001
sp|Q5XI81|FXR1_RAT Fragile X mental retardation syndrome-related protein 1 OS=Rattus norvegicus GN=Fxr1 PE=1 SV=1	sp|Q5XI81|FXR1_RAT (+1)	0.00014
sp|Q5XIB1|TSSC4_RAT Protein TSSC4 OS=Rattus norvegicus GN=Tssc4 PE=2 SV=1	sp|Q5XIB1|TSSC4_RAT	0.0001
sp|Q5XIU9|PGRC2_RAT Membrane-associated progesterone receptor component 2 OS=Rattus norvegicus GN=Pgrmc2 PE=1 SV=1	sp|Q5XIU9|PGRC2_RAT	0.00017
sp|Q62839|GOGA2_RAT Golgin subfamily A member 2 OS=Rattus norvegicus GN=Golga2 PE=1 SV=4	sp|Q62839|GOGA2_RAT (+1)	0.00007
sp|Q63377|AT1B3_RAT Sodium/potassium-transporting ATPase subunit beta-3 OS=Rattus norvegicus GN=Atp1b3 PE=2 SV=1	sp|Q63377|AT1B3_RAT	0.0001
sp|Q63507|RL14_RAT 60S ribosomal protein L14 OS=Rattus norvegicus GN=Rpl14 PE=1 SV=3	sp|Q63507|RL14_RAT (+3)	0.0001
sp|Q63598|PLST_RAT Plastin-3 OS=Rattus norvegicus GN=Pls3 PE=1 SV=2	sp|Q63598|PLST_RAT (+1)	0.00007
sp|Q63699|CDK2_RAT Cyclin-dependent kinase 2 OS=Rattus norvegicus GN=Cdk2 PE=1 SV=1	sp|Q63699|CDK2_RAT (+1)	0.00017
sp|Q63965|SFXN1_RAT Sideroflexin-1 OS=Rattus norvegicus GN=Sfxn1 PE=2 SV=4	sp|Q63965|SFXN1_RAT	0.00014
sp|Q64057|AL7A1_RAT Alpha-aminoadipic semialdehyde dehydrogenase OS=Rattus norvegicus GN=Aldh7a1 PE=1 SV=2	sp|Q64057|AL7A1_RAT	0.00014
sp|Q642G4|PEX14_RAT Peroxisomal membrane protein PEX14 OS=Rattus norvegicus GN=Pex14 PE=1 SV=1	sp|Q642G4|PEX14_RAT	0.000035

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q6AY30|SCPDL_RAT Saccharopine dehydrogenase-like oxidoreductase OS=Rattus norvegicus GN=Sccpdh PE=1 SV=1	sp|Q6AY30|SCPDL_RAT	0.00017
sp|Q6AYA1|GAR1_RAT H/ACA ribonucleoprotein complex subunit 1 OS=Rattus norvegicus GN=Gar1 PE=2 SV=1	sp|Q6AYA1|GAR1_RAT	0.00014
sp|Q6IUR5|NENF_RAT Neudesin OS=Rattus norvegicus GN=Nenf PE=2 SV=1	sp|Q6IUR5|NENF_RAT	0.00014
sp|Q6P9U3|COMD3_RAT COMM domain-containing protein 3 OS=Rattus norvegicus GN=Commd3 PE=1 SV=1	sp|Q6P9U3|COMD3_RAT	0.00014
sp|Q6PCT3|TPD54_RAT Tumor protein D54 OS=Rattus norvegicus GN=Tpd52l2 PE=1 SV=1	sp|Q6PCT3|TPD54_RAT	0.00007
sp|Q7M0E3|DEST_RAT Destrin OS=Rattus norvegicus GN=Dstn PE=1 SV=3	sp|Q7M0E3|DEST_RAT	0.0001
sp|Q7TMD5-2|ZC3HE_RAT Isoform 2 of Zinc finger CCCH domain-containing protein 14 OS=Rattus norvegicus GN=Zc3h14	sp|Q7TMD5-2|ZC3HE_RAT (+3)	0.0001
sp|Q8R511-2|FNBP1_RAT Isoform 2 of Formin-binding protein 1 OS=Rattus norvegicus GN=Fnbp1	sp|Q8R511-2|FNBP1_RAT (+6)	0.00007
sp|Q8VI04|ASGL1_RAT Isoaspartyl peptidase/L-asparaginase OS=Rattus norvegicus GN=Asrgl1 PE=1 SV=1	sp|Q8VI04|ASGL1_RAT	0.0001
sp|Q99MZ8|LASP1_RAT LIM and SH3 domain protein 1 OS=Rattus norvegicus GN=Lasp1 PE=1 SV=1	sp|Q99MZ8|LASP1_RAT	0.00007
sp|Q9EPJ0|NUCKS_RAT Nuclear ubiquitous casein and cyclin-dependent kinase substrate 1 OS=Rattus norvegicus GN=Nucks1 PE=1 SV=1	sp|Q9EPJ0|NUCKS_RAT (+1)	0.0001
sp|Q9ES21|SAC1_RAT Phosphatidylinositide phosphatase SAC1 OS=Rattus norvegicus GN=Sacm1l PE=1 SV=1	sp|Q9ES21|SAC1_RAT	0.00014
sp|Q9Z254|GIPC1_RAT PDZ domain-containing protein GIPC1 OS=Rattus norvegicus GN=Gipc1 PE=1 SV=2	sp|Q9Z254|GIPC1_RAT	0.0001
sp|Q9Z336|DYLT1_RAT Dynein light chain Tctex-type 1 OS=Rattus norvegicus GN=Dynlt1 PE=1 SV=1	sp|Q9Z336|DYLT1_RAT	0.0001
tr|A0A0G2JUD2|A0A0G2JUD2_RAT Protein Ppa1 OS=Rattus norvegicus GN=Sar1a PE=1 SV=1	tr|A0A0G2JUD2|A0A0G2JUD2_RAT (+1)	0.0001
tr|A0A0G2JUV4|A0A0G2JUV4_RAT Protein Mrpl1 OS=Rattus norvegicus GN=Mrpl1 PE=1 SV=1	tr|A0A0G2JUV4|A0A0G2JUV4_RAT (+2)	0.00007
tr|A0A0G2JWA5|A0A0G2JWA5_RAT Sarcolemmal membrane-associated protein OS=Rattus norvegicus GN=Slmap PE=1 SV=1	tr|A0A0G2JWA5|A0A0G2JWA5_RAT (+1)	0.0001
tr|A0A0G2JXB1|A0A0G2JXB1_RAT Galectin OS=Rattus norvegicus GN=Lgals3 PE=1 SV=1	tr|A0A0G2JXB1|A0A0G2JXB1_RAT (+2)	0.00007
tr|A0A0G2JZD1|A0A0G2JZD1_RAT Protein Ppp2r5c OS=Rattus norvegicus GN=Ppp2r5c PE=1 SV=1	tr|A0A0G2JZD1|A0A0G2JZD1_RAT	0.00017
tr|A0A0G2K0B6|A0A0G2K0B6_RAT Clathrin coat assembly protein AP180 OS=Rattus norvegicus GN=Snap91 PE=1 SV=1	tr|A0A0G2K0B6|A0A0G2K0B6_RAT (+1)	0.00014
tr|A0A0G2K2D6|A0A0G2K2D6_RAT Protein Tppp OS=Rattus norvegicus GN=Tppp PE=1 SV=1	tr|A0A0G2K2D6|A0A0G2K2D6_RAT (+1)	0.0001
tr|A0A0G2K4W2|A0A0G2K4W2_RAT Transcription factor BTF3 OS=Rattus norvegicus PE=3 SV=1	tr|A0A0G2K4W2|A0A0G2K4W2_RAT (+1)	0.00014
tr|A0A0U1RS25|A0A0U1RS25_RAT Protein Upf1 OS=Rattus norvegicus GN=Upf1 PE=4 SV=1	tr|A0A0U1RS25|A0A0U1RS25_RAT (+1)	0.00014
tr|A9CMB7|A9CMB7_RAT Aspartate--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Dars PE=1 SV=1	tr|A9CMB7|A9CMB7_RAT	0.00017
tr|B5DF86|B5DF86_RAT Component of oligomeric golgi complex 8 OS=Rattus norvegicus GN=Cog8 PE=1 SV=1	tr|B5DF86|B5DF86_RAT	0.00007
tr|D3Z8B2|D3Z8B2_RAT Protein Nup133 OS=Rattus norvegicus GN=Nup133 PE=1 SV=3	tr|D3Z8B2|D3Z8B2_RAT	0.00017
tr|D3Z941|D3Z941_RAT Protein Mars OS=Rattus norvegicus GN=Mars PE=1 SV=1	tr|D3Z941|D3Z941_RAT	0.00014
tr|D3Z962|D3Z962_RAT Protein Tacc3 OS=Rattus norvegicus GN=Tacc3 PE=1 SV=3	tr|D3Z962|D3Z962_RAT	0.0001
tr|D3ZBL3|D3ZBL3_RAT Protein Ngdn OS=Rattus norvegicus GN=Ngdn PE=1 SV=1	tr|D3ZBL3|D3ZBL3_RAT	0.0001
tr|D3ZE72|D3ZE72_RAT Methionyl aminopeptidase 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Metap1 PE=1 SV=1	tr|D3ZE72|D3ZE72_RAT	0.0001
tr|D3ZF50|D3ZF50_RAT Protein RGD1310335 OS=Rattus norvegicus GN=RGD1310335 PE=4 SV=1	tr|D3ZF50|D3ZF50_RAT	0.00021
tr|D3ZH12|D3ZH12_RAT Nitric oxide synthase-interacting protein OS=Rattus norvegicus GN=Nosip PE=1 SV=1	tr|D3ZH12|D3ZH12_RAT	0.0001
tr|D3ZHM7|D3ZHM7_RAT Protein Dnttip2 OS=Rattus norvegicus GN=Dnttip2 PE=1 SV=2	tr|D3ZHM7|D3ZHM7_RAT	0.00007
tr|D3ZJG3|D3ZJG3_RAT Protein P4htm OS=Rattus norvegicus GN=P4htm PE=4 SV=1	tr|D3ZJG3|D3ZJG3_RAT	0.0001
tr|D3ZRG7|D3ZRG7_RAT Protein Rbm26 OS=Rattus norvegicus GN=Rbm26 PE=1 SV=2	tr|D3ZRG7|D3ZRG7_RAT	0.00014
tr|D3ZSC8|D3ZSC8_RAT Protein Dnajc17 OS=Rattus norvegicus GN=Dnajc17 PE=1 SV=1	tr|D3ZSC8|D3ZSC8_RAT	0.0001
tr|D3ZW38|D3ZW38_RAT Protein Exosc6 OS=Rattus norvegicus GN=Exosc6 PE=1 SV=1	tr|D3ZW38|D3ZW38_RAT	0.00007
tr|D3ZYD7|D3ZYD7_RAT Protein Ccdc88a OS=Rattus norvegicus GN=Ccdc88a PE=1 SV=3	tr|D3ZYD7|D3ZYD7_RAT	0.0001
tr|D3ZZV1|D3ZZV1_RAT Mitochondrial import inner membrane translocase subunit TIM16 OS=Rattus norvegicus GN=Pam16 PE=1 SV=1	tr|D3ZZV1|D3ZZV1_RAT	0.0001
tr|D4A0T8|D4A0T8_RAT Protein Dhrs7 OS=Rattus norvegicus GN=Dhrs7 PE=1 SV=3	tr|D4A0T8|D4A0T8_RAT	0.00007
tr|D4A305|D4A305_RAT Coiled-coil domain containing 58 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ccdc58 PE=1 SV=1	tr|D4A305|D4A305_RAT	0.00014
tr|D4A542|D4A542_RAT Protein Gprasp2 OS=Rattus norvegicus GN=Gprasp2 PE=4 SV=2	tr|D4A542|D4A542_RAT	0.00007
tr|D4A5A6|D4A5A6_RAT DNA-directed RNA polymerase OS=Rattus norvegicus GN=Polr2a PE=1 SV=1	tr|D4A5A6|D4A5A6_RAT	0.00024
tr|D4A6X4|D4A6X4_RAT Acylphosphatase OS=Rattus norvegicus GN=Acyp1 PE=1 SV=1	tr|D4A6X4|D4A6X4_RAT	0.00014
tr|D4A8M7|D4A8M7_RAT Condensin complex subunit 2 OS=Rattus norvegicus GN=Ncaph PE=1 SV=3	tr|D4A8M7|D4A8M7_RAT	0.00007
tr|D4AA31|D4AA31_RAT Protein Prcp OS=Rattus norvegicus GN=Prcp PE=1 SV=1	tr|D4AA31|D4AA31_RAT	0.00007
tr|E9PT51|E9PT51_RAT DNA-directed polymerase delta interacting protein 2 OS=Rattus norvegicus GN=Poldip2 PE=1 SV=3	tr|E9PT51|E9PT51_RAT	0.0001
tr|F1LP57|F1LP57_RAT Protein Map2k4 OS=Rattus norvegicus GN=Map2k4 PE=1 SV=3	tr|F1LP57|F1LP57_RAT	0.00007
tr|F1M1R4|F1M1R4_RAT Protein Rbm27 OS=Rattus norvegicus GN=Rbm27 PE=1 SV=2	tr|F1M1R4|F1M1R4_RAT	0.00007
tr|F1MAA3|F1MAA3_RAT Protein LOC100909464 OS=Rattus norvegicus GN=LOC100909464 PE=1 SV=2	tr|F1MAA3|F1MAA3_RAT	0.00017
tr|G3V886|G3V886_RAT Protein LOC100910779 OS=Rattus norvegicus GN=LOC100910779 PE=1 SV=1	tr|G3V886|G3V886_RAT	0.0001
tr|G3V8L2|G3V8L2_RAT Paired mesoderm homeobox protein 2A OS=Rattus norvegicus GN=Phox2a PE=4 SV=3	tr|G3V8L2|G3V8L2_RAT	0.00014
tr|G3V9N7|G3V9N7_RAT Protein Pacsin3 OS=Rattus norvegicus GN=Pacsin3 PE=1 SV=3	tr|G3V9N7|G3V9N7_RAT	0.000035
tr|Q3MIE7|Q3MIE7_RAT COMM domain containing 9 OS=Rattus norvegicus GN=Commd9 PE=1 SV=1	tr|Q3MIE7|Q3MIE7_RAT	0.00014
tr|Q499S6|Q499S6_RAT Cathepsin F OS=Rattus norvegicus GN=Ctsf PE=1 SV=1	tr|Q499S6|Q499S6_RAT	0.00007
tr|Q4QR73|Q4QR73_RAT DnaJ (Hsp40) homolog, subfamily A, member 4 OS=Rattus norvegicus GN=Dnaja4 PE=1 SV=1	tr|Q4QR73|Q4QR73_RAT	0.00014
tr|Q5M920|Q5M920_RAT EBNA1 binding protein 2 OS=Rattus norvegicus GN=Ebna1bp2 PE=1 SV=1	tr|Q5M920|Q5M920_RAT	0.0001
tr|Q66H61|Q66H61_RAT Glutaminyl-tRNA synthetase OS=Rattus norvegicus GN=Qars PE=1 SV=1	tr|Q66H61|Q66H61_RAT	0.00014
sp|P54256-2|HAP1_RAT Isoform A of Huntingtin-associated protein 1 OS=Rattus norvegicus GN=Hap1	sp|P54256-2|HAP1_RAT (+3)	0.0001
sp|Q5U317|FIP1_RAT Pre-mRNA 3'-end-processing factor FIP1 OS=Rattus norvegicus GN=Fip1l1 PE=1 SV=1	sp|Q5U317|FIP1_RAT (+1)	0.0001
sp|Q641X2|LEO1_RAT RNA polymerase-associated protein LEO1 OS=Rattus norvegicus GN=Leo1 PE=1 SV=1	sp|Q641X2|LEO1_RAT	0.0001
sp|Q642C0|DNJC8_RAT DnaJ homolog subfamily C member 8 OS=Rattus norvegicus GN=Dnajc8 PE=2 SV=1	sp|Q642C0|DNJC8_RAT (+1)	0.0001
tr|D4A0V6|D4A0V6_RAT Protein Anln OS=Rattus norvegicus GN=Anln PE=1 SV=3	tr|D4A0V6|D4A0V6_RAT	0.00014
tr|F1LMQ3|F1LMQ3_RAT Protein Psmd8 OS=Rattus norvegicus GN=Psmd8 PE=1 SV=1	tr|F1LMQ3|F1LMQ3_RAT	0.00014
sp|Q63396|TCP4_RAT Activated RNA polymerase II transcriptional coactivator p15 OS=Rattus norvegicus GN=Sub1 PE=1 SV=3	sp|Q63396|TCP4_RAT	0.00007
sp|Q6AYK1|RNPS1_RAT RNA-binding protein with serine-rich domain 1 OS=Rattus norvegicus GN=Rnps1 PE=2 SV=1	sp|Q6AYK1|RNPS1_RAT	0.00007
tr|Q5BJZ3|Q5BJZ3_RAT Nicotinamide nucleotide transhydrogenase OS=Rattus norvegicus GN=Nnt PE=1 SV=1	tr|Q5BJZ3|Q5BJZ3_RAT	0.0001
sp|P0C2C4|RM10_RAT 39S ribosomal protein L10, mitochondrial OS=Rattus norvegicus GN=Mrpl10 PE=1 SV=1	sp|P0C2C4|RM10_RAT (+1)	0.00014

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D4A1B8|D4A1B8_RAT Protein Dctn3 OS=Rattus norvegicus GN=Dctn3 PE=1 SV=1	tr|D4A1B8|D4A1B8_RAT	0.00014
tr|M0RBX7|M0RBX7_RAT Amyloid-like protein 2 OS=Rattus norvegicus GN=Aplp2 PE=1 SV=2	tr|M0RBX7|M0RBX7_RAT (+1)	0.00007
tr|B5DF91|B5DF91_RAT ELAV-like protein OS=Rattus norvegicus GN=Elavl1 PE=1 SV=1	tr|B5DF91|B5DF91_RAT	0.0001
sp|B0BNM1|NNRE_RAT NAD(P)H-hydrate epimerase OS=Rattus norvegicus GN=Apoa1bp PE=2 SV=1	sp|B0BNM1|NNRE_RAT	0.0001
sp|Q9JIL8|RAD50_RAT DNA repair protein RAD50 OS=Rattus norvegicus GN=Rad50 PE=1 SV=1	sp|Q9JIL8|RAD50_RAT (+1)	0.00007
tr|Q3MHT2|Q3MHT2_RAT Cysteine desulfurase, mitochondrial OS=Rattus norvegicus GN=Nfs1 PE=1 SV=1	tr|Q3MHT2|Q3MHT2_RAT	0.0001
tr|D3ZNQ6|D3ZNQ6_RAT Protein Ube2m OS=Rattus norvegicus GN=Ube2m PE=1 SV=1	tr|D3ZNQ6|D3ZNQ6_RAT	0.00007
sp|Q5FVQ4|MLEC_RAT Malectin OS=Rattus norvegicus GN=Mlec PE=2 SV=1	sp|Q5FVQ4|MLEC_RAT (+1)	0.0001
tr|D3ZSP1|D3ZSP1_RAT Protein LOC100361838 OS=Rattus norvegicus GN=LOC100361838 PE=4 SV=1	tr|D3ZSP1|D3ZSP1_RAT	0.0001
tr|D4AEB4|D4AEB4_RAT Protein Nat10 OS=Rattus norvegicus GN=Nat10 PE=1 SV=1	tr|D4AEB4|D4AEB4_RAT (+1)	0.00017
Cluster of tr|A0A0H2UHV7|A0A0H2UHV7_RAT Alanine--tRNA ligase, mitochondrial OS=Rattus norvegicus GN=Aars2 PE=1 SV=1 (tr|A0A0H2UHV7|A0A0H2UHV	tr|A0A0H2UHV7|A0A0H2UHV7_RAT [2]	0.00017
tr|A0A0H2UHV7|A0A0H2UHV7_RAT Alanine--tRNA ligase, mitochondrial OS=Rattus norvegicus GN=Aars2 PE=1 SV=1	tr|A0A0H2UHV7|A0A0H2UHV7_RAT	0.00014
sp|D3ZX08|SYAM_RAT Alanine--tRNA ligase, mitochondrial OS=Rattus norvegicus GN=Aars2 PE=3 SV=1	sp|D3ZX08|SYAM_RAT	0.0001
Cluster of sp|F2Z3T4|MBNL2_RAT Muscleblind-like protein 2 OS=Rattus norvegicus GN=Mbnl2 PE=1 SV=1 (sp|F2Z3T4|MBNL2_RAT)	sp|F2Z3T4|MBNL2_RAT	0.0001
sp|F2Z3T4|MBNL2_RAT Muscleblind-like protein 2 OS=Rattus norvegicus GN=Mbnl2 PE=1 SV=1	sp|F2Z3T4|MBNL2_RAT	0.0001
sp|Q9JJ31|CUL5_RAT Cullin-5 OS=Rattus norvegicus GN=Cul5 PE=1 SV=3	sp|Q9JJ31|CUL5_RAT (+1)	0.000035
Cluster of tr|D3ZFY8|D3ZFY8_RAT Protein LOC100912618 OS=Rattus norvegicus GN=LOC100912618 PE=1 SV=1 (tr|D3ZFY8|D3ZFY8_RAT)	tr|D3ZFY8|D3ZFY8_RAT [3]	0.00007
tr|D3ZFY8|D3ZFY8_RAT Protein LOC100912618 OS=Rattus norvegicus GN=LOC100912618 PE=1 SV=1	tr|D3ZFY8|D3ZFY8_RAT	0.00007
sp|Q7M767|UB2V2_RAT Ubiquitin-conjugating enzyme E2 variant 2 OS=Rattus norvegicus GN=Ube2v2 PE=1 SV=3	sp|Q7M767|UB2V2_RAT (+1)	0.000035
Cluster of tr|F1LYA6|F1LYA6_RAT Protein Abi2 OS=Rattus norvegicus GN=Abi2 PE=4 SV=3 (tr|F1LYA6|F1LYA6_RAT)	tr|F1LYA6|F1LYA6_RAT [2]	0.00007
tr|F1LYA6|F1LYA6_RAT Protein Abi2 OS=Rattus norvegicus GN=Abi2 PE=4 SV=3	tr|F1LYA6|F1LYA6_RAT	0.000035
sp|Q9QZM5|ABI1_RAT Abl interactor 1 OS=Rattus norvegicus GN=Abi1 PE=1 SV=3	sp|Q9QZM5|ABI1_RAT	0.000035
sp|Q7TPJ0|SSRA_RAT Translocon-associated protein subunit alpha OS=Rattus norvegicus GN=Ssr1 PE=1 SV=1	sp|Q7TPJ0|SSRA_RAT (+4)	0.00007
sp|P43278|H10_RAT Histone H1.0 OS=Rattus norvegicus GN=H1f0 PE=2 SV=2	sp|P43278|H10_RAT	0.00017
sp|B5DF89|CUL3_RAT Cullin-3 OS=Rattus norvegicus GN=Cul3 PE=1 SV=2	sp|B5DF89|CUL3_RAT (+1)	0.00017
sp|O08587|NUP50_RAT Nuclear pore complex protein Nup50 OS=Rattus norvegicus GN=Nup50 PE=2 SV=2	sp|O08587|NUP50_RAT (+1)	0.0001
sp|O54715|VAS1_RAT V-type proton ATPase subunit S1 OS=Rattus norvegicus GN=Atp6ap1 PE=2 SV=1	sp|O54715|VAS1_RAT (+1)	0.00014
sp|O55012-2|PICAL_RAT Isoform 2 of Phosphatidylinositol-binding clathrin assembly protein OS=Rattus norvegicus GN=Picalm	sp|O55012-2|PICAL_RAT (+5)	0.00014
sp|O88656|ARC1B_RAT Actin-related protein 2/3 complex subunit 1B OS=Rattus norvegicus GN=Arpc1b PE=1 SV=3	sp|O88656|ARC1B_RAT	0.0001
sp|O89043|DPOA2_RAT DNA polymerase alpha subunit B OS=Rattus norvegicus GN=Pola2 PE=1 SV=2	sp|O89043|DPOA2_RAT (+2)	0.00014
sp|P18266|GSK3B_RAT Glycogen synthase kinase-3 beta OS=Rattus norvegicus GN=Gsk3b PE=1 SV=1	sp|P18266|GSK3B_RAT (+2)	0.00014
sp|P21571|ATP5J_RAT ATP synthase-coupling factor 6, mitochondrial OS=Rattus norvegicus GN=Atp5j PE=1 SV=1	sp|P21571|ATP5J_RAT	0.0001
sp|P22062|PIMT_RAT Protein-L-isoaspartate(D-aspartate) O-methyltransferase OS=Rattus norvegicus GN=Pcmt1 PE=1 SV=2	sp|P22062|PIMT_RAT	0.0001
sp|P23785|GRN_RAT Granulins OS=Rattus norvegicus GN=Grn PE=1 SV=3	sp|P23785|GRN_RAT (+2)	0.0001
sp|P45352|TYSY_RAT Thymidylate synthase OS=Rattus norvegicus GN=Tyms PE=1 SV=1	sp|P45352|TYSY_RAT	0.00007
sp|P52590|NU107_RAT Nuclear pore complex protein Nup107 OS=Rattus norvegicus GN=Nup107 PE=1 SV=1	sp|P52590|NU107_RAT (+1)	0.0001
sp|P53565|CUX1_RAT Homeobox protein cut-like 1 OS=Rattus norvegicus GN=Cux1 PE=1 SV=2	sp|P53565|CUX1_RAT	0.000035
sp|P54311|GBB1_RAT Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 OS=Rattus norvegicus GN=Gnb1 PE=1 SV=4	sp|P54311|GBB1_RAT	0.0001
sp|P56571|ES1_RAT ES1 protein homolog, mitochondrial OS=Rattus norvegicus PE=1 SV=2	sp|P56571|ES1_RAT	0.00014
sp|P58405-2|STRN3_RAT Isoform 2 of Striatin-3 OS=Rattus norvegicus GN=Strn3	sp|P58405-2|STRN3_RAT (+2)	0.0001
sp|P62963|PROF1_RAT Profilin-1 OS=Rattus norvegicus GN=Pfn1 PE=1 SV=2	sp|P62963|PROF1_RAT	0.00007
sp|P70566|TMOD2_RAT Tropomodulin-2 OS=Rattus norvegicus GN=Tmod2 PE=1 SV=1	sp|P70566|TMOD2_RAT	0.000035
sp|P70583|DUT_RAT Deoxyuridine 5'-triphosphate nucleotidohydrolase OS=Rattus norvegicus GN=Dut PE=2 SV=3	sp|P70583|DUT_RAT	0.00007
sp|P83868|TEBP_RAT Prostaglandin E synthase 3 OS=Rattus norvegicus GN=Ptges3 PE=1 SV=2	sp|P83868|TEBP_RAT	0.0001
sp|P97531|CIP4_RAT Cdc42-interacting protein 4 OS=Rattus norvegicus GN=Trip10 PE=1 SV=3	sp|P97531|CIP4_RAT	0.000035
sp|Q01750|T2FB_RAT General transcription factor IIF subunit 2 OS=Rattus norvegicus GN=Gtf2f2 PE=1 SV=1	sp|Q01750|T2FB_RAT (+1)	0.00007
sp|Q06000|LIPL_RAT Lipoprotein lipase OS=Rattus norvegicus GN=Lpl PE=1 SV=1	sp|Q06000|LIPL_RAT	0.00007
sp|Q3MHS2|ZN830_RAT Zinc finger protein 830 OS=Rattus norvegicus GN=Znf830 PE=1 SV=1	sp|Q3MHS2|ZN830_RAT	0.0001
sp|Q3T1K5|CAZA2_RAT F-actin-capping protein subunit alpha-2 OS=Rattus norvegicus GN=Capza2 PE=1 SV=1	sp|Q3T1K5|CAZA2_RAT	0.00014
sp|Q4FZT8|SPRY4_RAT SPRY domain-containing protein 4 OS=Rattus norvegicus GN=Spryd4 PE=2 SV=1	sp|Q4FZT8|SPRY4_RAT	0.00007
sp|Q4FZY0|EFHD2_RAT EF-hand domain-containing protein D2 OS=Rattus norvegicus GN=Efhd2 PE=1 SV=1	sp|Q4FZY0|EFHD2_RAT	0
sp|Q4V7F5|PIHD1_RAT PIH1 domain-containing protein 1 OS=Rattus norvegicus GN=Pih1d1 PE=1 SV=1	sp|Q4V7F5|PIHD1_RAT	0.00007
sp|Q5EIC4|I2BPL_RAT Interferon regulatory factor 2-binding protein-like OS=Rattus norvegicus GN=Irf2bpl PE=1 SV=1	sp|Q5EIC4|I2BPL_RAT (+1)	0.00007
sp|Q5PQM2|KLC4_RAT Kinesin light chain 4 OS=Rattus norvegicus GN=Klc4 PE=1 SV=1	sp|Q5PQM2|KLC4_RAT	0.00021
sp|Q5RKH0|GLYR1_RAT Putative oxidoreductase GLYR1 OS=Rattus norvegicus GN=Glyr1 PE=1 SV=1	sp|Q5RKH0|GLYR1_RAT	0.0001
sp|Q5XIC0|ECI2_RAT Enoyl-CoA delta isomerase 2, mitochondrial OS=Rattus norvegicus GN=Eci2 PE=1 SV=1	sp|Q5XIC0|ECI2_RAT	0.00007
sp|Q5XIG5|GKAP1_RAT G kinase-anchoring protein 1 OS=Rattus norvegicus GN=Gkap1 PE=1 SV=1	sp|Q5XIG5|GKAP1_RAT	0.00014
sp|Q62818|EI2BB_RAT Translation initiation factor eIF-2B subunit beta OS=Rattus norvegicus GN=Eif2b2 PE=2 SV=1	sp|Q62818|EI2BB_RAT (+1)	0.0001
sp|Q62848-2|ARFG1_RAT Isoform 2 of ADP-ribosylation factor GTPase-activating protein 1 OS=Rattus norvegicus GN=Arfgap1	sp|Q62848-2|ARFG1_RAT (+3)	0.0001
Cluster of sp|Q66HA6|ARL8B_RAT ADP-ribosylation factor-like protein 8B OS=Rattus norvegicus GN=Arl8b PE=2 SV=1 (sp|Q66HA6|ARL8B_RAT)	sp|Q66HA6|ARL8B_RAT [2]	0.0001
sp|Q66HA6|ARL8B_RAT ADP-ribosylation factor-like protein 8B OS=Rattus norvegicus GN=Arl8b PE=2 SV=1	sp|Q66HA6|ARL8B_RAT	0.0001
tr|D3ZPP2|D3ZPP2_RAT Protein Arl8a OS=Rattus norvegicus GN=Arl8a PE=1 SV=1	tr|D3ZPP2|D3ZPP2_RAT	0.00007
sp|Q68FP1-2|GELS_RAT Isoform 2 of Gelsolin OS=Rattus norvegicus GN=Gsn	sp|Q68FP1-2|GELS_RAT	0.000035
sp|Q68FS1|NUBP2_RAT Cytosolic Fe-S cluster assembly factor NUBP2 OS=Rattus norvegicus GN=Nubp2 PE=1 SV=1	sp|Q68FS1|NUBP2_RAT	0.0001
sp|Q6AXT0|RM37_RAT 39S ribosomal protein L37, mitochondrial OS=Rattus norvegicus GN=Mrpl37 PE=2 SV=1	sp|Q6AXT0|RM37_RAT (+1)	0.000035
sp|Q6AXT7|RBM42_RAT RNA-binding protein 42 OS=Rattus norvegicus GN=Rbm42 PE=1 SV=1	sp|Q6AXT7|RBM42_RAT (+2)	0.0001
sp|Q6MG08|ABCF1_RAT ATP-binding cassette sub-family F member 1 OS=Rattus norvegicus GN=Abcf1 PE=1 SV=1	sp|Q6MG08|ABCF1_RAT	0.00017
sp|Q7TSE9|HAX1_RAT HCLS1-associated protein X-1 OS=Rattus norvegicus GN=Hax1 PE=1 SV=1	sp|Q7TSE9|HAX1_RAT (+1)	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q8CH84|ELAV2_RAT ELAV-like protein 2 OS=Rattus norvegicus GN=Elavl2 PE=1 SV=1	sp|Q8CH84|ELAV2_RAT (+1)	0.00017
sp|Q8K585|HMGA1_RAT High mobility group protein HMG-I/HMG-Y OS=Rattus norvegicus GN=Hmga1 PE=1 SV=3	sp|Q8K585|HMGA1_RAT	0.00007
sp|Q9EPB1|DPP2_RAT Dipeptidyl peptidase 2 OS=Rattus norvegicus GN=Dpp7 PE=1 SV=1	sp|Q9EPB1|DPP2_RAT	0.00014
sp|Q9ES53|UFD1_RAT Ubiquitin fusion degradation protein 1 homolog OS=Rattus norvegicus GN=Ufd1l PE=1 SV=1	sp|Q9ES53|UFD1_RAT	0.00007
sp|Q9JHY2|SFXN3_RAT Sideroflexin-3 OS=Rattus norvegicus GN=Sfxn3 PE=2 SV=1	sp|Q9JHY2|SFXN3_RAT (+1)	0.00014
sp|Q9JLJ3|AL9A1_RAT 4-trimethylaminobutyraldehyde dehydrogenase OS=Rattus norvegicus GN=Aldh9a1 PE=1 SV=1	sp|Q9JLJ3|AL9A1_RAT (+1)	0.000035
sp|Q9NQR8|NDUF4_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4 OS=Rattus norvegicus GN=Ndufaf4 PE=1 SV=1	sp|Q9NQR8|NDUF4_RAT	0.0001
sp|Q9Z1Z6|ILKAP_RAT Integrin-linked kinase-associated serine/threonine phosphatase 2C OS=Rattus norvegicus GN=Ilkap PE=2 SV=1	sp|Q9Z1Z6|ILKAP_RAT (+1)	0.0001
tr|A0A0G2JTM7|A0A0G2JTM7_RAT Protein Brd7 OS=Rattus norvegicus GN=Brd7 PE=1 SV=1	tr|A0A0G2JTM7|A0A0G2JTM7_RAT	0.0001
tr|A0A0G2JU15|A0A0G2JU15_RAT Protein Ptcd3 OS=Rattus norvegicus GN=Ptcd3 PE=1 SV=1	tr|A0A0G2JU15|A0A0G2JU15_RAT (+1)	0.00007
tr|A0A0G2JVK4|A0A0G2JVK4_RAT Neurolysin, mitochondrial OS=Rattus norvegicus GN=Nln PE=1 SV=1	tr|A0A0G2JVK4|A0A0G2JVK4_RAT	0.00007
tr|A0A0G2JYE0|A0A0G2JYE0_RAT Protein Atxn2l OS=Rattus norvegicus GN=Atxn2l PE=1 SV=1	tr|A0A0G2JYE0|A0A0G2JYE0_RAT (+1)	0
tr|A0A0G2K160|A0A0G2K160_RAT Protein Ahctf1 OS=Rattus norvegicus GN=Ahctf1 PE=1 SV=1	tr|A0A0G2K160|A0A0G2K160_RAT (+1)	0.0001
Cluster of tr|A0A0G2K472|A0A0G2K472_RAT Protein Cyfip1 OS=Rattus norvegicus GN=Cyfip1 PE=1 SV=1 (tr|A0A0G2K472|A0A0G2K472_RAT)	tr|A0A0G2K472|A0A0G2K472_RAT [3]	0.0001
tr|A0A0G2K472|A0A0G2K472_RAT Protein Cyfip1 OS=Rattus norvegicus GN=Cyfip1 PE=1 SV=1	tr|A0A0G2K472|A0A0G2K472_RAT (+1)	0.00007
tr|A0A0G2JT63|A0A0G2JT63_RAT Protein Cyfip2 OS=Rattus norvegicus GN=Cyfip2 PE=1 SV=1	tr|A0A0G2JT63|A0A0G2JT63_RAT	0.00007
tr|A0A0G2K6T9|A0A0G2K6T9_RAT Protein Pcdh1 OS=Rattus norvegicus GN=Pcdh1 PE=1 SV=1	tr|A0A0G2K6T9|A0A0G2K6T9_RAT	0.0001
tr|A0A0G2K756|A0A0G2K756_RAT Acyl-Coenzyme A binding domain containing 3 OS=Rattus norvegicus GN=Acbd3 PE=1 SV=1	tr|A0A0G2K756|A0A0G2K756_RAT	0.00007
tr|A0A0G2KB73|A0A0G2KB73_RAT Protein Rif1 OS=Rattus norvegicus GN=Rif1 PE=1 SV=1	tr|A0A0G2KB73|A0A0G2KB73_RAT	0.00007
tr|A0A0U1RRV7|A0A0U1RRV7_RAT Protein Srsf3 OS=Rattus norvegicus GN=Srsf3 PE=4 SV=1	tr|A0A0U1RRV7|A0A0U1RRV7_RAT (+1)	0.00014
tr|B0BN83|B0BN83_RAT Armadillo repeat-containing protein 1 OS=Rattus norvegicus GN=Armc1 PE=1 SV=1	tr|B0BN83|B0BN83_RAT	0.0001
tr|B0BNJ4|B0BNJ4_RAT Ethylmalonic encephalopathy 1 OS=Rattus norvegicus GN=Ethe1 PE=1 SV=1	tr|B0BNJ4|B0BNJ4_RAT	0.0001
tr|B2RYL4|B2RYL4_RAT Armc6 protein OS=Rattus norvegicus GN=Armc6 PE=1 SV=1	tr|B2RYL4|B2RYL4_RAT	0.00014
tr|B2RYW7|B2RYW7_RAT Protein Srp14 OS=Rattus norvegicus GN=Srp14 PE=1 SV=1	tr|B2RYW7|B2RYW7_RAT	0.0001
tr|B4F7A9|B4F7A9_RAT Casein kinase 2, alpha prime polypeptide OS=Rattus norvegicus GN=Csnk2a2 PE=1 SV=1	tr|B4F7A9|B4F7A9_RAT	0.0001
tr|B5DF37|B5DF37_RAT Protein Taf6l OS=Rattus norvegicus GN=Taf6l PE=1 SV=1	tr|B5DF37|B5DF37_RAT	0.000035
tr|D3ZBS9|D3ZBS9_RAT Protein Smarcd1 OS=Rattus norvegicus GN=Smarcd1 PE=1 SV=1	tr|D3ZBS9|D3ZBS9_RAT	0.00017
tr|D3ZBT9|D3ZBT9_RAT Protein Ppp6r3 OS=Rattus norvegicus GN=Ppp6r3 PE=1 SV=2	tr|D3ZBT9|D3ZBT9_RAT (+1)	0.0001
tr|D3ZCA0|D3ZCA0_RAT Proline synthetase co-transcribed (Predicted) OS=Rattus norvegicus GN=Prosc PE=1 SV=1	tr|D3ZCA0|D3ZCA0_RAT	0.000035
tr|D3ZD09|D3ZD09_RAT Cytochrome c oxidase subunit 6B1 OS=Rattus norvegicus GN=Cox6b1 PE=1 SV=1	tr|D3ZD09|D3ZD09_RAT	0.00007
tr|D3ZD73|D3ZD73_RAT Protein Ddx6 OS=Rattus norvegicus GN=Ddx6 PE=1 SV=1	tr|D3ZD73|D3ZD73_RAT	0.00014
tr|D3ZJ32|D3ZJ32_RAT Protein Esyt2 OS=Rattus norvegicus GN=Esyt2 PE=1 SV=3	tr|D3ZJ32|D3ZJ32_RAT	0.0001
tr|D3ZPL1|D3ZPL1_RAT Cleavage and polyadenylation specific factor 6, 68kDa (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Cpsf6 PE=1 SV=2	tr|D3ZPL1|D3ZPL1_RAT	0.00014
tr|D3ZXK4|D3ZXK4_RAT Protein Abhd11 OS=Rattus norvegicus GN=Abhd11 PE=1 SV=1	tr|D3ZXK4|D3ZXK4_RAT	0.00007
tr|D4A3E8|D4A3E8_RAT Mitochondrial ribosomal protein S27 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrps27 PE=1 SV=1	tr|D4A3E8|D4A3E8_RAT	0.0001
tr|D4A8N1|D4A8N1_RAT Protein Dpm1 OS=Rattus norvegicus GN=Dpm1 PE=1 SV=1	tr|D4A8N1|D4A8N1_RAT	0.00007
tr|D4A9A3|D4A9A3_RAT Protein Cenpv OS=Rattus norvegicus GN=Cenpv PE=1 SV=3	tr|D4A9A3|D4A9A3_RAT	0.0001
tr|D4ADB4|D4ADB4_RAT CGG triplet repeat binding protein 1 (Predicted) OS=Rattus norvegicus GN=Cggbp1 PE=1 SV=1	tr|D4ADB4|D4ADB4_RAT	0.0001
tr|D4AEH9|D4AEH9_RAT Amylo-1, 6-glucosidase, 4-alpha-glucanotransferase (Glycogen debranching enzyme, glycogen storage disease type III) (Predicted), iso	tr|D4AEH9|D4AEH9_RAT	0.00014
tr|E9PSX7|E9PSX7_RAT Protein Hirip3 OS=Rattus norvegicus GN=Hirip3 PE=1 SV=1	tr|E9PSX7|E9PSX7_RAT	0.00007
tr|E9PU13|E9PU13_RAT Protein Snx4 OS=Rattus norvegicus GN=Snx4 PE=1 SV=1	tr|E9PU13|E9PU13_RAT	0.00007
tr|F1LQ22|F1LQ22_RAT Protein Use1 OS=Rattus norvegicus GN=Use1 PE=1 SV=2	tr|F1LQ22|F1LQ22_RAT	0.0001
tr|F1M9Y7|F1M9Y7_RAT Protein Tcp11l1 OS=Rattus norvegicus GN=Tcp11l1 PE=1 SV=3	tr|F1M9Y7|F1M9Y7_RAT	0.00007
tr|F7EPZ4|F7EPZ4_RAT Protein Dis3 OS=Rattus norvegicus GN=Dis3 PE=1 SV=1	tr|F7EPZ4|F7EPZ4_RAT	0.0001
tr|G3V7U8|G3V7U8_RAT Actin-related protein 2/3 complex subunit 5 OS=Rattus norvegicus GN=Arpc5l PE=1 SV=2	tr|G3V7U8|G3V7U8_RAT	0.000035
tr|G3V7W1|G3V7W1_RAT Programmed cell death 6 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Pdcd6 PE=1 SV=1	tr|G3V7W1|G3V7W1_RAT	0.000035
tr|G3V9M1|G3V9M1_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 23 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ddx23 PE=1 SV=1	tr|G3V9M1|G3V9M1_RAT	0.0001
tr|G3V9T7|G3V9T7_RAT ATPase Asna1 OS=Rattus norvegicus GN=Asna1 PE=1 SV=1	tr|G3V9T7|G3V9T7_RAT	0.00014
tr|Q5RKH2|Q5RKH2_RAT Galactokinase 1 OS=Rattus norvegicus GN=Galk1 PE=1 SV=1	tr|Q5RKH2|Q5RKH2_RAT	0.00007
tr|Q5XI39|Q5XI39_RAT Crystallin, zeta (Quinone reductase)-like 1 OS=Rattus norvegicus GN=Cryzl1 PE=1 SV=1	tr|Q5XI39|Q5XI39_RAT	0.000035
tr|Q5XIB7|Q5XIB7_RAT tRNA-splicing endonuclease subunit Sen34 OS=Rattus norvegicus GN=Tsen34 PE=1 SV=1	tr|Q5XIB7|Q5XIB7_RAT	0.00007
tr|Q5XII4|Q5XII4_RAT Protein Fam207a OS=Rattus norvegicus GN=Fam207a PE=1 SV=1	tr|Q5XII4|Q5XII4_RAT	0.00007
tr|Q6AYS3|Q6AYS3_RAT Protective protein for beta-galactosidase OS=Rattus norvegicus GN=Ctsa PE=1 SV=1	tr|Q6AYS3|Q6AYS3_RAT	0.0001
tr|Q99JC6|Q99JC6_RAT Protein Tapbp OS=Rattus norvegicus GN=Tapbp PE=1 SV=1	tr|Q99JC6|Q99JC6_RAT	0.00014
sp|Q01818|VMAT1_RAT Chromaffin granule amine transporter OS=Rattus norvegicus GN=Slc18a1 PE=2 SV=1	sp|Q01818|VMAT1_RAT (+1)	0.00014
sp|Q02356|AMPD2_RAT AMP deaminase 2 OS=Rattus norvegicus GN=Ampd2 PE=1 SV=2	sp|Q02356|AMPD2_RAT (+1)	0.00014
sp|Q5PQL2|RCD1_RAT Cell differentiation protein RCD1 homolog OS=Rattus norvegicus GN=Rqcd1 PE=1 SV=1	sp|Q5PQL2|RCD1_RAT	0.00007
sp|Q5XI60|REEP6_RAT Receptor expression-enhancing protein 6 OS=Rattus norvegicus GN=Reep6 PE=2 SV=1	sp|Q5XI60|REEP6_RAT	0.0001
sp|Q63184|E2AK2_RAT Interferon-induced, double-stranded RNA-activated protein kinase OS=Rattus norvegicus GN=Eif2ak2 PE=1 SV=1	sp|Q63184|E2AK2_RAT (+1)	0.0001
sp|Q64303|PAK2_RAT Serine/threonine-protein kinase PAK 2 OS=Rattus norvegicus GN=Pak2 PE=1 SV=1	sp|Q64303|PAK2_RAT	0.0001
sp|Q811S9|GNL3_RAT Guanine nucleotide-binding protein-like 3 OS=Rattus norvegicus GN=Gnl3 PE=1 SV=1	sp|Q811S9|GNL3_RAT	0.0001
tr|A0A0G2QC38|A0A0G2QC38_RAT Protein Srsf11 OS=Rattus norvegicus GN=Srsf11 PE=1 SV=1	tr|A0A0G2QC38|A0A0G2QC38_RAT	0.000035
tr|B2GV14|B2GV14_RAT Protein Txlna OS=Rattus norvegicus GN=Txlna PE=1 SV=1	tr|B2GV14|B2GV14_RAT	0.00007
tr|B2RYU7|B2RYU7_RAT Cbx5 protein OS=Rattus norvegicus GN=Cbx5 PE=1 SV=1	tr|B2RYU7|B2RYU7_RAT	0.0001
tr|D3ZB65|D3ZB65_RAT Protein Bccip OS=Rattus norvegicus GN=Bccip PE=1 SV=2	tr|D3ZB65|D3ZB65_RAT	0.0001
tr|D3ZES9|D3ZES9_RAT Protein Prc1 OS=Rattus norvegicus GN=Prc1 PE=4 SV=1	tr|D3ZES9|D3ZES9_RAT	0.00017
tr|D3ZKX8|D3ZKX8_RAT Protein Fam169a OS=Rattus norvegicus GN=Fam169a PE=1 SV=2	tr|D3ZKX8|D3ZKX8_RAT	0.0001
tr|D4A634|D4A634_RAT Protein Ranbp6 OS=Rattus norvegicus GN=Ranbp6 PE=4 SV=2	tr|D4A634|D4A634_RAT	0.0001

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D4AB01|D4AB01_RAT Histidine triad nucleotide binding protein 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Hint2 PE=1 SV=1	tr|D4AB01|D4AB01_RAT	0.0001
tr|F1M3N2|F1M3N2_RAT Protein Nsl1 OS=Rattus norvegicus GN=Nsl1 PE=4 SV=2	tr|F1M3N2|F1M3N2_RAT	0.00007
tr|Q6MGC4|Q6MGC4_RAT H2-K region expressed gene 2, rat orthologue OS=Rattus norvegicus GN=Pfdn6 PE=1 SV=1	tr|Q6MGC4|Q6MGC4_RAT	0.00007
sp|P25286-2|VPP1_RAT Isoform II of V-type proton ATPase 116 kDa subunit a isoform 1 OS=Rattus norvegicus GN=Atp6v0a1	sp|P25286-2|VPP1_RAT (+3)	0.0001
tr|Q0D2L2|Q0D2L2_RAT Protein Mrps22 OS=Rattus norvegicus GN=Mrps22 PE=1 SV=1	tr|Q0D2L2|Q0D2L2_RAT	0.0001
sp|P62161|CALM_RAT Calmodulin OS=Rattus norvegicus GN=Calm1 PE=1 SV=2	sp|P62161|CALM_RAT	0.00014
sp|Q6AYU1|MO4L1_RAT Mortality factor 4-like protein 1 OS=Rattus norvegicus GN=Morf4l1 PE=2 SV=1	sp|Q6AYU1|MO4L1_RAT	0.0001
tr|B5DEQ4|B5DEQ4_RAT Protein Snrpb2 OS=Rattus norvegicus GN=Snrpb2 PE=1 SV=1	tr|B5DEQ4|B5DEQ4_RAT	0.00014
tr|Q7TP44|Q7TP44_RAT Ab2-390 OS=Rattus norvegicus GN=Srxn1 PE=1 SV=1	tr|Q7TP44|Q7TP44_RAT	0.00007
sp|Q03114|CDK5_RAT Cyclin-dependent-like kinase 5 OS=Rattus norvegicus GN=Cdk5 PE=1 SV=1	sp|Q03114|CDK5_RAT	0.0001
sp|Q63186|EI2BD_RAT Translation initiation factor eIF-2B subunit delta OS=Rattus norvegicus GN=Eif2b4 PE=2 SV=1	sp|Q63186|EI2BD_RAT	0.00007
tr|B2GV41|B2GV41_RAT Protein Usp39 OS=Rattus norvegicus GN=Usp39 PE=1 SV=1	tr|B2GV41|B2GV41_RAT	0.0001
sp|Q9EQH5-2|CTBP2_RAT Isoform 2 of C-terminal-binding protein 2 OS=Rattus norvegicus GN=Ctbp2	sp|Q9EQH5-2|CTBP2_RAT (+1)	0.0001
tr|F1LPG5|F1LPG5_RAT Protein Ndufb4 OS=Rattus norvegicus GN=Ndufb4 PE=1 SV=1	tr|F1LPG5|F1LPG5_RAT	0.0001
sp|Q9QYW0|AATF_RAT Protein AATF OS=Rattus norvegicus GN=Aatf PE=1 SV=1	sp|Q9QYW0|AATF_RAT	0.00007
Cluster of tr|Q6TUH4|Q6TUH4_RAT LRRGT00070 OS=Rattus norvegicus GN=Thoc1 PE=1 SV=1 (tr|Q6TUH4|Q6TUH4_RAT)	tr|Q6TUH4|Q6TUH4_RAT [2]	0.0001
tr|Q6TUH4|Q6TUH4_RAT LRRGT00070 OS=Rattus norvegicus GN=Thoc1 PE=1 SV=1	tr|Q6TUH4|Q6TUH4_RAT	0.00007
sp|P59924|THOC1_RAT THO complex subunit 1 OS=Rattus norvegicus GN=Thoc1 PE=2 SV=1	sp|P59924|THOC1_RAT	0.00007
sp|Q62703|RCN2_RAT Reticulocalbin-2 OS=Rattus norvegicus GN=Rcn2 PE=1 SV=2	sp|Q62703|RCN2_RAT	0.0001
tr|D3ZTW8|D3ZTW8_RAT Mitochondrial ribosomal protein L27 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrpl27 PE=1 SV=2	tr|D3ZTW8|D3ZTW8_RAT	0.00007
sp|D3ZHS6|BAP1_RAT Ubiquitin carboxyl-terminal hydrolase BAP1 OS=Rattus norvegicus GN=Bap1 PE=1 SV=2	sp|D3ZHS6|BAP1_RAT (+1)	0.00007
sp|P63322|RALA_RAT Ras-related protein Ral-A OS=Rattus norvegicus GN=Rala PE=1 SV=1	sp|P63322|RALA_RAT	0.0001
tr|B4F759|B4F759_RAT PHD finger protein 5A OS=Rattus norvegicus GN=Phf5a PE=1 SV=1	tr|B4F759|B4F759_RAT (+1)	0.0001
tr|A0A0G2JX43|A0A0G2JX43_RAT Protein Strn4 OS=Rattus norvegicus GN=Strn4 PE=1 SV=1	tr|A0A0G2JX43|A0A0G2JX43_RAT (+1)	0.0001
tr|D3ZCK4|D3ZCK4_RAT Protein Def6 OS=Rattus norvegicus GN=Def6 PE=1 SV=1	tr|D3ZCK4|D3ZCK4_RAT	0.00007
tr|G3V7Y3|G3V7Y3_RAT ATP synthase subunit delta, mitochondrial OS=Rattus norvegicus GN=Atp5d PE=1 SV=1	tr|G3V7Y3|G3V7Y3_RAT	0.0001
sp|Q9WU34-2|SEPT3_RAT Isoform 2 of Neuronal-specific septin-3 OS=Rattus norvegicus GN=Sept3	sp|Q9WU34-2|SEPT3_RAT (+2)	0.00007
tr|D3ZPJ9|D3ZPJ9_RAT Protein Ascc2 OS=Rattus norvegicus GN=Ascc2 PE=1 SV=3	tr|D3ZPJ9|D3ZPJ9_RAT	0.0001
sp|P63331|PP2AA_RAT Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform OS=Rattus norvegicus GN=Ppp2ca PE=1 SV=1	sp|P63331|PP2AA_RAT (+1)	0.0001
tr|A0A0G2KA61|A0A0G2KA61_RAT Casein kinase II subunit beta OS=Rattus norvegicus GN=Csnk2b PE=1 SV=1	tr|A0A0G2KA61|A0A0G2KA61_RAT (+1)	0.00007
sp|Q7TQ16|QCR8_RAT Cytochrome b-c1 complex subunit 8 OS=Rattus norvegicus GN=Uqcrq PE=3 SV=1	sp|Q7TQ16|QCR8_RAT	0.00007
sp|Q498R3|DJC10_RAT DnaJ homolog subfamily C member 10 OS=Rattus norvegicus GN=Dnajc10 PE=2 SV=2	sp|Q498R3|DJC10_RAT	0.0001
tr|A0A096MKE9|A0A096MKE9_RAT DNA ligase OS=Rattus norvegicus GN=Lig3 PE=1 SV=1	tr|A0A096MKE9|A0A096MKE9_RAT (+1)	0.00007
sp|Q71TY3|RS27_RAT 40S ribosomal protein S27 OS=Rattus norvegicus GN=Rps27 PE=1 SV=3	sp|Q71TY3|RS27_RAT	0.00024
Cluster of tr|D4AE68|D4AE68_RAT Guanine nucleotide binding protein, alpha q polypeptide, isoform CRA_a OS=Rattus norvegicus GN=Gnaq PE=1 SV=2 (tr|D4	tr|D4AE68|D4AE68_RAT [2]	0.00007
tr|D4AE68|D4AE68_RAT Guanine nucleotide binding protein, alpha q polypeptide, isoform CRA_a OS=Rattus norvegicus GN=Gnaq PE=1 SV=2	tr|D4AE68|D4AE68_RAT	0.00007
tr|Q5EAP4|Q5EAP4_RAT Guanine nucleotide binding protein, alpha 14 OS=Rattus norvegicus GN=Gna14 PE=2 SV=1	tr|Q5EAP4|Q5EAP4_RAT	0
tr|M0R3M8|M0R3M8_RAT Protein Rrp12 OS=Rattus norvegicus GN=Rrp12 PE=1 SV=1	tr|M0R3M8|M0R3M8_RAT	0.00007
tr|Q6IRH7|Q6IRH7_RAT Caseinolytic peptidase B protein homolog OS=Rattus norvegicus GN=Clpb PE=1 SV=1	tr|Q6IRH7|Q6IRH7_RAT	0.00007
sp|Q63014|AKAP8_RAT A-kinase anchor protein 8 OS=Rattus norvegicus GN=Akap8 PE=1 SV=1	sp|Q63014|AKAP8_RAT	0.00007
sp|Q80X08|FAM21_RAT WASH complex subunit FAM21 OS=Rattus norvegicus GN=Fam21 PE=1 SV=1	sp|Q80X08|FAM21_RAT (+1)	0.00007
sp|P62856|RS26_RAT 40S ribosomal protein S26 OS=Rattus norvegicus GN=Rps26 PE=3 SV=3	sp|P62856|RS26_RAT (+2)	0.0001
sp|P62914|RL11_RAT 60S ribosomal protein L11 OS=Rattus norvegicus GN=Rpl11 PE=1 SV=2	sp|P62914|RL11_RAT (+1)	0.0001
sp|Q568Z6|IST1_RAT IST1 homolog OS=Rattus norvegicus GN=Ist1 PE=2 SV=1	sp|Q568Z6|IST1_RAT	0.0001
sp|Q62760|TOM20_RAT Mitochondrial import receptor subunit TOM20 homolog OS=Rattus norvegicus GN=Tomm20 PE=1 SV=2	sp|Q62760|TOM20_RAT	0.00007
sp|Q6AXQ0|SAE1_RAT SUMO-activating enzyme subunit 1 OS=Rattus norvegicus GN=Sae1 PE=2 SV=1	sp|Q6AXQ0|SAE1_RAT	0.0001
tr|A0A096P6L1|A0A096P6L1_RAT U1 small nuclear ribonucleoprotein C OS=Rattus norvegicus GN=Snrpc PE=1 SV=2	tr|A0A096P6L1|A0A096P6L1_RAT	0.0001
tr|A0A0G2JZC3|A0A0G2JZC3_RAT Protein Mrps36 OS=Rattus norvegicus GN=Mrps36 PE=1 SV=1	tr|A0A0G2JZC3|A0A0G2JZC3_RAT (+1)	0.0001
tr|B1WC02|B1WC02_RAT CTP synthase OS=Rattus norvegicus GN=Ctps1 PE=1 SV=1	tr|B1WC02|B1WC02_RAT	0.0001
tr|B2RYS0|B2RYS0_RAT Cox7a2 protein OS=Rattus norvegicus GN=Cox7a2 PE=1 SV=1	tr|B2RYS0|B2RYS0_RAT	0.00007
tr|D3ZGM5|D3ZGM5_RAT Protein Ccdc167 OS=Rattus norvegicus GN=Ccdc167 PE=1 SV=1	tr|D3ZGM5|D3ZGM5_RAT	0.00007
tr|D3ZPE6|D3ZPE6_RAT Mitochondrial ribosomal protein L51 (Predicted) OS=Rattus norvegicus GN=Mrpl51 PE=1 SV=1	tr|D3ZPE6|D3ZPE6_RAT	0.0001
tr|D3ZYY0|D3ZYY0_RAT Protein Sdr39u1 OS=Rattus norvegicus GN=Sdr39u1 PE=1 SV=1	tr|D3ZYY0|D3ZYY0_RAT	0.0001
tr|D4A5T1|D4A5T1_RAT Protein Sf3b5 OS=Rattus norvegicus GN=Sf3b5 PE=1 SV=1	tr|D4A5T1|D4A5T1_RAT	0.00007
Cluster of sp|P69735|RB3GP_RAT Rab3 GTPase-activating protein catalytic subunit (Fragments) OS=Rattus norvegicus GN=Rab3gap1 PE=1 SV=2 (sp|P69735|R	sp|P69735|RB3GP_RAT [3]	0.00014
sp|P69735|RB3GP_RAT Rab3 GTPase-activating protein catalytic subunit (Fragments) OS=Rattus norvegicus GN=Rab3gap1 PE=1 SV=2	sp|P69735|RB3GP_RAT	0.0001
tr|A0A0G2JXA1|A0A0G2JXA1_RAT Rab3 GTPase-activating protein catalytic subunit OS=Rattus norvegicus GN=Rab3gap1 PE=1 SV=1	tr|A0A0G2JXA1|A0A0G2JXA1_RAT (+1)	0.00014
sp|Q5XI96|RNH2B_RAT Ribonuclease H2 subunit B OS=Rattus norvegicus GN=Rnaseh2b PE=2 SV=1	sp|Q5XI96|RNH2B_RAT	0.00007
tr|D3ZXX8|D3ZXX8_RAT Protein Ndufa4l2 OS=Rattus norvegicus GN=Ndufa4l2 PE=4 SV=3	tr|D3ZXX8|D3ZXX8_RAT	0.0001
sp|P04646|RL35A_RAT 60S ribosomal protein L35a OS=Rattus norvegicus GN=Rpl35a PE=3 SV=1	sp|P04646|RL35A_RAT (+2)	0.0001
Cluster of sp|Q6IFU7|K1C42_RAT Keratin, type I cytoskeletal 42 OS=Rattus norvegicus GN=Krt42 PE=3 SV=1 (sp|Q6IFU7|K1C42_RAT)	sp|Q6IFU7|K1C42_RAT [2]	0.0001
sp|Q6IFU7|K1C42_RAT Keratin, type I cytoskeletal 42 OS=Rattus norvegicus GN=Krt42 PE=3 SV=1	sp|Q6IFU7|K1C42_RAT	0.00007
sp|Q6IFV1|K1C14_RAT Keratin, type I cytoskeletal 14 OS=Rattus norvegicus GN=Krt14 PE=2 SV=1	sp|Q6IFV1|K1C14_RAT	0.00007
tr|Q6P503|Q6P503_RAT ATPase, H+ transporting, V1 subunit D, isoform CRA_c OS=Rattus norvegicus GN=Atp6v1d PE=1 SV=1	tr|Q6P503|Q6P503_RAT	0.00007
Cluster of tr|A0A0G2K9P4|A0A0G2K9P4_RAT Endophilin-B2 OS=Rattus norvegicus GN=Sh3glb2 PE=1 SV=1 (tr|A0A0G2K9P4|A0A0G2K9P4_RAT)	tr|A0A0G2K9P4|A0A0G2K9P4_RAT	0.0001
tr|A0A0G2K9P4|A0A0G2K9P4_RAT Endophilin-B2 OS=Rattus norvegicus GN=Sh3glb2 PE=1 SV=1	tr|A0A0G2K9P4|A0A0G2K9P4_RAT	0.0001
sp|B5DEH2|ERLN2_RAT Erlin-2 OS=Rattus norvegicus GN=Erlin2 PE=1 SV=1	sp|B5DEH2|ERLN2_RAT	0.00014
sp|O08700|VPS45_RAT Vacuolar protein sorting-associated protein 45 OS=Rattus norvegicus GN=Vps45 PE=1 SV=1	sp|O08700|VPS45_RAT	0.0001

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|O35264|PA1B2_RAT Platelet-activating factor acetylhydrolase IB subunit beta OS=Rattus norvegicus GN=Pafah1b2 PE=1 SV=1	sp|O35264|PA1B2_RAT	0.00007
sp|O35274|NEB2_RAT Neurabin-2 OS=Rattus norvegicus GN=Ppp1r9b PE=1 SV=1	sp|O35274|NEB2_RAT	0.000035
sp|O35331|PDXK_RAT Pyridoxal kinase OS=Rattus norvegicus GN=Pdxk PE=1 SV=1	sp|O35331|PDXK_RAT (+1)	0.000035
sp|O88588|PACS1_RAT Phosphofurin acidic cluster sorting protein 1 OS=Rattus norvegicus GN=Pacs1 PE=1 SV=1	sp|O88588|PACS1_RAT (+1)	0.0001
sp|P32198|CPT1A_RAT Carnitine O-palmitoyltransferase 1, liver isoform OS=Rattus norvegicus GN=Cpt1a PE=1 SV=2	sp|P32198|CPT1A_RAT	0.00014
sp|P45479|PPT1_RAT Palmitoyl-protein thioesterase 1 OS=Rattus norvegicus GN=Ppt1 PE=1 SV=1	sp|P45479|PPT1_RAT	0.00007
sp|P62916|TF2B_RAT Transcription initiation factor IIB OS=Rattus norvegicus GN=Gtf2b PE=2 SV=1	sp|P62916|TF2B_RAT	0.000035
sp|P62959|HINT1_RAT Histidine triad nucleotide-binding protein 1 OS=Rattus norvegicus GN=Hint1 PE=1 SV=5	sp|P62959|HINT1_RAT (+1)	0.00007
sp|P63170|DYL1_RAT Dynein light chain 1, cytoplasmic OS=Rattus norvegicus GN=Dynll1 PE=1 SV=1	sp|P63170|DYL1_RAT	0.00007
sp|P85968|6PGD_RAT 6-phosphogluconate dehydrogenase, decarboxylating OS=Rattus norvegicus GN=Pgd PE=1 SV=1	sp|P85968|6PGD_RAT (+1)	0.00007
sp|P97696|CYH3_RAT Cytohesin-3 OS=Rattus norvegicus GN=Cyth3 PE=2 SV=1	sp|P97696|CYH3_RAT (+2)	0.00007
sp|Q00981|UCHL1_RAT Ubiquitin carboxyl-terminal hydrolase isozyme L1 OS=Rattus norvegicus GN=Uchl1 PE=1 SV=2	sp|Q00981|UCHL1_RAT	0.000035
sp|Q3T1L0|A16A1_RAT Aldehyde dehydrogenase family 16 member A1 OS=Rattus norvegicus GN=Aldh16a1 PE=2 SV=1	sp|Q3T1L0|A16A1_RAT	0.000035
sp|Q4V897|CC90B_RAT Coiled-coil domain-containing protein 90B, mitochondrial OS=Rattus norvegicus GN=Ccdc90b PE=2 SV=1	sp|Q4V897|CC90B_RAT	0.00007
sp|Q5PPK9|TSSC1_RAT Protein TSSC1 OS=Rattus norvegicus GN=Tssc1 PE=2 SV=1	sp|Q5PPK9|TSSC1_RAT (+1)	0.0001
sp|Q5PQQ2|WBP11_RAT WW domain-binding protein 11 OS=Rattus norvegicus GN=Wbp11 PE=1 SV=1	sp|Q5PQQ2|WBP11_RAT (+2)	0.000035
sp|Q5XI73|GDIR1_RAT Rho GDP-dissociation inhibitor 1 OS=Rattus norvegicus GN=Arhgdia PE=1 SV=1	sp|Q5XI73|GDIR1_RAT	0.000035
sp|Q5XIE3|RM11_RAT 39S ribosomal protein L11, mitochondrial OS=Rattus norvegicus GN=Mrpl11 PE=2 SV=1	sp|Q5XIE3|RM11_RAT (+1)	0.00007
sp|Q5XIT9|MCCB_RAT Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial OS=Rattus norvegicus GN=Mccc2 PE=2 SV=1	sp|Q5XIT9|MCCB_RAT	0.00007
sp|Q63009|ANM1_RAT Protein arginine N-methyltransferase 1 OS=Rattus norvegicus GN=Prmt1 PE=1 SV=1	sp|Q63009|ANM1_RAT	0.00007
sp|Q63768|CRK_RAT Adapter molecule crk OS=Rattus norvegicus GN=Crk PE=1 SV=1	sp|Q63768|CRK_RAT	0.00007
sp|Q64542-2|AT2B4_RAT Isoform XA of Plasma membrane calcium-transporting ATPase 4 OS=Rattus norvegicus GN=Atp2b4	sp|Q64542-2|AT2B4_RAT (+3)	0.0001
sp|Q6AXY4|DPOD2_RAT DNA polymerase delta subunit 2 OS=Rattus norvegicus GN=Pold2 PE=1 SV=1	sp|Q6AXY4|DPOD2_RAT	0.0001
sp|Q6EV70|OFUT1_RAT GDP-fucose protein O-fucosyltransferase 1 OS=Rattus norvegicus GN=Pofut1 PE=2 SV=1	sp|Q6EV70|OFUT1_RAT	0.00007
sp|Q6P6S4|SIL1_RAT Nucleotide exchange factor SIL1 OS=Rattus norvegicus GN=Sil1 PE=2 SV=1	sp|Q6P6S4|SIL1_RAT	0.00007
sp|Q6QI44|NAA25_RAT N-alpha-acetyltransferase 25, NatB auxiliary subunit OS=Rattus norvegicus GN=Naa25 PE=2 SV=1	sp|Q6QI44|NAA25_RAT (+1)	0.00014
sp|Q6RIA2|PAF15_RAT PCNA-associated factor OS=Rattus norvegicus GN=Paf PE=3 SV=1	sp|Q6RIA2|PAF15_RAT	0.0001
sp|Q7TSU1|BIG2_RAT Brefeldin A-inhibited guanine nucleotide-exchange protein 2 OS=Rattus norvegicus GN=Arfgef2 PE=1 SV=1	sp|Q7TSU1|BIG2_RAT	0.0001
sp|Q80WE1-2|FMR1_RAT Isoform 2 of Fragile X mental retardation protein 1 homolog OS=Rattus norvegicus GN=Fmr1	sp|Q80WE1-2|FMR1_RAT (+2)	0.00007
sp|Q80WL2|BYST_RAT Bystin OS=Rattus norvegicus GN=Bysl PE=1 SV=3	sp|Q80WL2|BYST_RAT (+1)	0.0001
sp|Q99J82|ILK_RAT Integrin-linked protein kinase OS=Rattus norvegicus GN=Ilk PE=2 SV=1	sp|Q99J82|ILK_RAT	0.00007
tr|A0A0A0MXX8|A0A0A0MXX8_RAT F-BAR domain only protein 2 OS=Rattus norvegicus GN=Fcho2 PE=1 SV=2	tr|A0A0A0MXX8|A0A0A0MXX8_RAT	0.00007
tr|A0A0G2JTB2|A0A0G2JTB2_RAT Protein Gbe1 OS=Rattus norvegicus GN=Gbe1 PE=1 SV=1	tr|A0A0G2JTB2|A0A0G2JTB2_RAT	0.0001
tr|A0A0G2JTD1|A0A0G2JTD1_RAT Protein Rprd2 OS=Rattus norvegicus GN=Rprd2 PE=1 SV=1	tr|A0A0G2JTD1|A0A0G2JTD1_RAT	0.0001
tr|A0A0G2JWD6|A0A0G2JWD6_RAT AP-3 complex subunit beta OS=Rattus norvegicus GN=Ap3b1 PE=1 SV=1	tr|A0A0G2JWD6|A0A0G2JWD6_RAT	0.0001
tr|A0A0G2JY08|A0A0G2JY08_RAT Protein Myo18a OS=Rattus norvegicus GN=Myo18a PE=1 SV=1	tr|A0A0G2JY08|A0A0G2JY08_RAT	0.0001
tr|A0A0G2K0Q6|A0A0G2K0Q6_RAT Protein Incenp OS=Rattus norvegicus GN=Incenp PE=1 SV=1	tr|A0A0G2K0Q6|A0A0G2K0Q6_RAT (+1)	0.00007
tr|A0A0G2K2A5|A0A0G2K2A5_RAT Protein Uchl5 OS=Rattus norvegicus GN=Uchl5 PE=1 SV=1	tr|A0A0G2K2A5|A0A0G2K2A5_RAT (+1)	0.000035
tr|A0A0G2K6I4|A0A0G2K6I4_RAT Protein Enah OS=Rattus norvegicus GN=Enah PE=1 SV=1	tr|A0A0G2K6I4|A0A0G2K6I4_RAT (+1)	0.000035
tr|B1WC01|B1WC01_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif20a PE=1 SV=1	tr|B1WC01|B1WC01_RAT	0.00014
tr|B1WC26|B1WC26_RAT N-acetylneuraminic acid synthase OS=Rattus norvegicus GN=Nans PE=1 SV=1	tr|B1WC26|B1WC26_RAT	0.000035
tr|B2RYQ2|B2RYQ2_RAT Protein Ppp2r4 OS=Rattus norvegicus GN=Ppp2r4 PE=1 SV=1	tr|B2RYQ2|B2RYQ2_RAT	0.0001
tr|D3ZA85|D3ZA85_RAT Histone cell cycle regulation defective interacting protein 5 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Nfu1 PE=1 SV=1	tr|D3ZA85|D3ZA85_RAT	0.00014
tr|D3ZAS9|D3ZAS9_RAT Protein Ddrgk1 OS=Rattus norvegicus GN=Ddrgk1 PE=1 SV=1	tr|D3ZAS9|D3ZAS9_RAT	0.000035
tr|D3ZBM3|D3ZBM3_RAT Ferrochelatase OS=Rattus norvegicus GN=Fech PE=1 SV=1	tr|D3ZBM3|D3ZBM3_RAT	0.0001
tr|D3ZCS4|D3ZCS4_RAT Protein Iqgap3 OS=Rattus norvegicus GN=Iqgap3 PE=4 SV=1	tr|D3ZCS4|D3ZCS4_RAT	0.00014
tr|D3ZIN7|D3ZIN7_RAT Mitochondrial ribosomal protein S23 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrps23 PE=1 SV=1	tr|D3ZIN7|D3ZIN7_RAT	0.00007
tr|D3ZKG5|D3ZKG5_RAT Protein Parvb OS=Rattus norvegicus GN=Parvb PE=1 SV=1	tr|D3ZKG5|D3ZKG5_RAT	0.00007
tr|D3ZRX9|D3ZRX9_RAT Calponin OS=Rattus norvegicus GN=Cnn2 PE=1 SV=2	tr|D3ZRX9|D3ZRX9_RAT	0.000035
tr|D3ZUT9|D3ZUT9_RAT Protein Ints3 OS=Rattus norvegicus GN=Ints3 PE=1 SV=1	tr|D3ZUT9|D3ZUT9_RAT	0.00014
tr|D3ZX38|D3ZX38_RAT Prefoldin 1 (Predicted) OS=Rattus norvegicus GN=Pfdn1 PE=1 SV=1	tr|D3ZX38|D3ZX38_RAT	0.0001
tr|D3ZXF9|D3ZXF9_RAT Protein Mrpl12 OS=Rattus norvegicus GN=Mrpl12 PE=1 SV=1	tr|D3ZXF9|D3ZXF9_RAT	0.00007
tr|D4A206|D4A206_RAT Protein Tcof1 OS=Rattus norvegicus GN=Tcof1 PE=1 SV=2	tr|D4A206|D4A206_RAT	0.00007
tr|D4A9Y0|D4A9Y0_RAT Protein Sdf2l1 OS=Rattus norvegicus GN=Sdf2l1 PE=1 SV=1	tr|D4A9Y0|D4A9Y0_RAT	0.00007
tr|D4ACM9|D4ACM9_RAT Protein Mfap1a OS=Rattus norvegicus GN=Mfap1a PE=1 SV=1	tr|D4ACM9|D4ACM9_RAT	0.00007
tr|F1LMA5|F1LMA5_RAT Protein Fv1 OS=Rattus norvegicus GN=Fv1 PE=4 SV=1	tr|F1LMA5|F1LMA5_RAT	0.00007
tr|F1LND1|F1LND1_RAT Protein Cog1 OS=Rattus norvegicus GN=Cog1 PE=1 SV=1	tr|F1LND1|F1LND1_RAT	0.00014
tr|F1LNF0|F1LNF0_RAT Protein Myh14 OS=Rattus norvegicus GN=Myh14 PE=1 SV=1	tr|F1LNF0|F1LNF0_RAT	0.00038
tr|F1LNK6|F1LNK6_RAT DNA primase OS=Rattus norvegicus GN=Prim1 PE=3 SV=3	tr|F1LNK6|F1LNK6_RAT	0.00007
tr|F1LW84|F1LW84_RAT Borealin OS=Rattus norvegicus GN=Cdca8 PE=1 SV=2	tr|F1LW84|F1LW84_RAT	0.00007
tr|F1LXA0|F1LXA0_RAT NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, 12 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ndufa12 PE=1 SV=2	tr|F1LXA0|F1LXA0_RAT	0.00007
tr|F1M0X6|F1M0X6_RAT Protein Magohb OS=Rattus norvegicus GN=Magohb PE=4 SV=2	tr|F1M0X6|F1M0X6_RAT	0.00007
tr|F7ENH8|F7ENH8_RAT Histone deacetylase OS=Rattus norvegicus GN=Hdac2 PE=1 SV=1	tr|F7ENH8|F7ENH8_RAT	0.0001
tr|F7F350|F7F350_RAT Protein Syap1 OS=Rattus norvegicus GN=Syap1 PE=1 SV=1	tr|F7F350|F7F350_RAT	0.00007
tr|F8WFM2|F8WFM2_RAT Beta-soluble NSF attachment protein OS=Rattus norvegicus GN=Napb PE=4 SV=1	tr|F8WFM2|F8WFM2_RAT	0.00017
tr|M0R469|M0R469_RAT Protein RGD1566359 OS=Rattus norvegicus GN=RGD1566359 PE=4 SV=1	tr|M0R469|M0R469_RAT	0.00007
tr|M0R5V4|M0R5V4_RAT Protein Arhgap19 OS=Rattus norvegicus GN=Arhgap19 PE=4 SV=2	tr|M0R5V4|M0R5V4_RAT	0.000035
tr|M0R6J0|M0R6J0_RAT Protein Mrpl39 OS=Rattus norvegicus GN=Mrpl39 PE=1 SV=2	tr|M0R6J0|M0R6J0_RAT	0.0001

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|M0R9Z5|M0R9Z5_RAT Protein Irf2bp2 OS=Rattus norvegicus GN=Irf2bp2 PE=1 SV=1	tr|M0R9Z5|M0R9Z5_RAT	0.000035
tr|Q498C9|Q498C9_RAT Protein Zfp207 OS=Rattus norvegicus GN=Zfp207 PE=1 SV=1	tr|Q498C9|Q498C9_RAT	0.00007
tr|Q5EB90|Q5EB90_RAT Polymerase (RNA) II (DNA directed) polypeptide C, 33kDa OS=Rattus norvegicus GN=Polr2c PE=1 SV=1	tr|Q5EB90|Q5EB90_RAT	0.000035
tr|Q5M9F7|Q5M9F7_RAT ARP10 actin-related protein 10 homolog (S. cerevisiae) OS=Rattus norvegicus GN=Actr10 PE=1 SV=1	tr|Q5M9F7|Q5M9F7_RAT	0.000035
tr|Q5XFW4|Q5XFW4_RAT Mitochondrial ribosomal protein L13 OS=Rattus norvegicus GN=Mrpl13 PE=1 SV=1	tr|Q5XFW4|Q5XFW4_RAT	0.00007
tr|Q6AXY8|Q6AXY8_RAT Dehydrogenase/reductase (SDR family) member 1 OS=Rattus norvegicus GN=Dhrs1 PE=1 SV=1	tr|Q6AXY8|Q6AXY8_RAT	0.0001
sp|B2RYF7|WASH1_RAT WAS protein family homolog 1 OS=Rattus norvegicus GN=Wash1 PE=2 SV=1	sp|B2RYF7|WASH1_RAT	0.00007
sp|D2XV59|GTPB1_RAT GTP-binding protein 1 OS=Rattus norvegicus GN=Gtpbp1 PE=1 SV=1	sp|D2XV59|GTPB1_RAT	0.0001
sp|P05370|G6PD_RAT Glucose-6-phosphate 1-dehydrogenase OS=Rattus norvegicus GN=G6pdx PE=1 SV=3	sp|P05370|G6PD_RAT	0.000035
sp|P97521|MCAT_RAT Mitochondrial carnitine/acylcarnitine carrier protein OS=Rattus norvegicus GN=Slc25a20 PE=1 SV=1	sp|P97521|MCAT_RAT (+1)	0.00007
sp|Q4V8C8|CDC73_RAT Parafibromin OS=Rattus norvegicus GN=Cdc73 PE=2 SV=1	sp|Q4V8C8|CDC73_RAT (+1)	0.00007
sp|Q5U1Z2|TPPC3_RAT Trafficking protein particle complex subunit 3 OS=Rattus norvegicus GN=Trappc3 PE=2 SV=1	sp|Q5U1Z2|TPPC3_RAT	0.0001
sp|Q6AYK3|INO1_RAT Inositol-3-phosphate synthase 1 OS=Rattus norvegicus GN=Isyna1 PE=3 SV=2	sp|Q6AYK3|INO1_RAT	0.00007
sp|Q99MZ4|GGT7_RAT Gamma-glutamyltransferase 7 OS=Rattus norvegicus GN=Ggt7 PE=1 SV=2	sp|Q99MZ4|GGT7_RAT	0.00007
sp|Q9Z2F5|CTBP1_RAT C-terminal-binding protein 1 OS=Rattus norvegicus GN=Ctbp1 PE=1 SV=3	sp|Q9Z2F5|CTBP1_RAT (+2)	0.00014
tr|D4A944|D4A944_RAT Protein Snrnp40 OS=Rattus norvegicus GN=Snrnp40 PE=1 SV=3	tr|D4A944|D4A944_RAT	0.0001
tr|F1M124|F1M124_RAT Protein Cobll1 OS=Rattus norvegicus GN=Cobll1 PE=1 SV=2	tr|F1M124|F1M124_RAT	0.0001
sp|B2RYG6|OTUB1_RAT Ubiquitin thioesterase OTUB1 OS=Rattus norvegicus GN=Otub1 PE=1 SV=1	sp|B2RYG6|OTUB1_RAT	0.0001
sp|Q3B7U9|FKBP8_RAT Peptidyl-prolyl cis-trans isomerase FKBP8 OS=Rattus norvegicus GN=Fkbp8 PE=2 SV=1	sp|Q3B7U9|FKBP8_RAT	0.0001
sp|Q5U2R7|MESD_RAT LDLR chaperone MESD OS=Rattus norvegicus GN=Mesdc2 PE=2 SV=1	sp|Q5U2R7|MESD_RAT	0.000035
tr|Q5PPJ6|Q5PPJ6_RAT Leucyl-tRNA synthetase OS=Rattus norvegicus GN=Lars PE=1 SV=1	tr|Q5PPJ6|Q5PPJ6_RAT	0.0001
sp|P60192|SNAPN_RAT SNARE-associated protein Snapin OS=Rattus norvegicus GN=Snapin PE=1 SV=1	sp|P60192|SNAPN_RAT	0.000035
sp|Q3KRE0|ATAD3_RAT ATPase family AAA domain-containing protein 3 OS=Rattus norvegicus GN=Atad3 PE=1 SV=1	sp|Q3KRE0|ATAD3_RAT	0.00007
tr|D4A7R3|D4A7R3_RAT Nucleoporin 205kDa (Predicted) OS=Rattus norvegicus GN=Nup205 PE=1 SV=1	tr|D4A7R3|D4A7R3_RAT	0.0001
tr|Q6YDN8|Q6YDN8_RAT BWK-1 OS=Rattus norvegicus GN=Gid8 PE=1 SV=1	tr|Q6YDN8|Q6YDN8_RAT	0.00007
sp|O54922|EXOC7_RAT Exocyst complex component 7 OS=Rattus norvegicus GN=Exoc7 PE=1 SV=1	sp|O54922|EXOC7_RAT	0.0001
sp|Q499N3|WDR18_RAT WD repeat-containing protein 18 OS=Rattus norvegicus GN=Wdr18 PE=2 SV=1	sp|Q499N3|WDR18_RAT (+1)	0.0001
tr|B0BN99|B0BN99_RAT Hmgb3 protein OS=Rattus norvegicus GN=Hmgb3 PE=1 SV=1	tr|B0BN99|B0BN99_RAT	0.00007
tr|D3ZPA1|D3ZPA1_RAT Protein Gcc1 OS=Rattus norvegicus GN=Gcc1 PE=1 SV=1	tr|D3ZPA1|D3ZPA1_RAT	0.00007
sp|Q4QQV8|CHMP5_RAT Charged multivesicular body protein 5 OS=Rattus norvegicus GN=Chmp5 PE=2 SV=1	sp|Q4QQV8|CHMP5_RAT	0.00007
sp|Q6MG06|GNL1_RAT Guanine nucleotide-binding protein-like 1 OS=Rattus norvegicus GN=Gnl1 PE=1 SV=1	sp|Q6MG06|GNL1_RAT	0.00007
tr|D4A916|D4A916_RAT Protein Celf3 OS=Rattus norvegicus GN=Celf3 PE=4 SV=2	tr|D4A916|D4A916_RAT	0.0001
tr|Q5XIP0|Q5XIP0_RAT DnaJ (Hsp40) homolog, subfamily B, member 4 OS=Rattus norvegicus GN=Dnajb4 PE=1 SV=1	tr|Q5XIP0|Q5XIP0_RAT	0.00007
tr|Q6DGG9|Q6DGG9_RAT Calcium modulating ligand OS=Rattus norvegicus GN=Camlg PE=1 SV=1	tr|Q6DGG9|Q6DGG9_RAT	0.00007
sp|P19132|FRIH_RAT Ferritin heavy chain OS=Rattus norvegicus GN=Fth1 PE=1 SV=3	sp|P19132|FRIH_RAT (+1)	0.0001
tr|A0A0G2JVH7|A0A0G2JVH7_RAT Protein Wasf2 OS=Rattus norvegicus GN=Wasf2 PE=1 SV=1	tr|A0A0G2JVH7|A0A0G2JVH7_RAT (+2)	0.0001
tr|D4A068|D4A068_RAT Protein Pnma2 OS=Rattus norvegicus GN=Pnma2 PE=4 SV=1	tr|D4A068|D4A068_RAT	0.00007
tr|F1M8B7|F1M8B7_RAT Protein Chmp2b OS=Rattus norvegicus GN=Chmp2b PE=1 SV=2	tr|F1M8B7|F1M8B7_RAT	0.00007
sp|Q6AXV4|SAM50_RAT Sorting and assembly machinery component 50 homolog OS=Rattus norvegicus GN=Samm50 PE=1 SV=1	sp|Q6AXV4|SAM50_RAT	0.00007
tr|B2RZ44|B2RZ44_RAT N-acetyltransferase 5 (ARD1 homolog, S. cerevisiae) OS=Rattus norvegicus GN=Naa20 PE=1 SV=1	tr|B2RZ44|B2RZ44_RAT	0.000035
sp|Q5XJW2|G45IP_RAT Growth arrest and DNA damage-inducible proteins-interacting protein 1 OS=Rattus norvegicus GN=Gadd45gip1 PE=2 SV=2	sp|Q5XJW2|G45IP_RAT	0.00007
tr|D4A626|D4A626_RAT Protein Clmn OS=Rattus norvegicus GN=Clmn PE=1 SV=1	tr|D4A626|D4A626_RAT	0.00007
sp|Q5RJR2|TWF1_RAT Twinfilin-1 OS=Rattus norvegicus GN=Twf1 PE=1 SV=1	sp|Q5RJR2|TWF1_RAT	0.00014
tr|F1M7Z1|F1M7Z1_RAT Protein Edc3 OS=Rattus norvegicus GN=Edc3 PE=1 SV=3	tr|F1M7Z1|F1M7Z1_RAT	0.0001
tr|D4A3E3|D4A3E3_RAT Protein Arid1a OS=Rattus norvegicus GN=Arid1a PE=1 SV=3	tr|D4A3E3|D4A3E3_RAT	0.0001
tr|F1MA87|F1MA87_RAT Cyclin-dependent kinase 6 OS=Rattus norvegicus GN=Cdk6 PE=1 SV=2	tr|F1MA87|F1MA87_RAT	0.0001
tr|D3ZYX8|D3ZYX8_RAT Cytochrome c oxidase subunit VIIa polypeptide 2 like (Predicted), isoform CRA_e OS=Rattus norvegicus GN=Cox7a2l PE=1 SV=1	tr|D3ZYX8|D3ZYX8_RAT	0.0001
tr|A0A0G2K5D7|A0A0G2K5D7_RAT Protein Specc1 OS=Rattus norvegicus GN=Specc1 PE=1 SV=1	tr|A0A0G2K5D7|A0A0G2K5D7_RAT	0.0001
tr|G3V631|G3V631_RAT Protein Rabgef1 OS=Rattus norvegicus GN=Rabgef1 PE=1 SV=1	tr|G3V631|G3V631_RAT	0.000035
tr|A1A5R3|A1A5R3_RAT KRR1 small subunit processome component OS=Rattus norvegicus GN=Krr1 PE=1 SV=1	tr|A1A5R3|A1A5R3_RAT	0.00007
tr|B0BNG7|B0BNG7_RAT Nudt16l1 protein OS=Rattus norvegicus GN=Nudt16l1 PE=1 SV=1	tr|B0BNG7|B0BNG7_RAT	0.0001
sp|O89049|TRXR1_RAT Thioredoxin reductase 1, cytoplasmic OS=Rattus norvegicus GN=Txnrd1 PE=1 SV=5	sp|O89049|TRXR1_RAT (+2)	0.00007
tr|B2RYC9|B2RYC9_RAT Glucosylceramidase OS=Rattus norvegicus GN=Gba PE=1 SV=1	tr|B2RYC9|B2RYC9_RAT	0.00007
sp|Q562B5|PGAM5_RAT Serine/threonine-protein phosphatase PGAM5, mitochondrial OS=Rattus norvegicus GN=Pgam5 PE=2 SV=1	sp|Q562B5|PGAM5_RAT (+1)	0.00007
tr|A0A0G2JYT4|A0A0G2JYT4_RAT Protein Exoc1 OS=Rattus norvegicus GN=Exoc1 PE=1 SV=1	tr|A0A0G2JYT4|A0A0G2JYT4_RAT (+2)	0.00007
tr|B2GUX7|B2GUX7_RAT Cellular repressor of E1A-stimulated genes (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Creg1 PE=1 SV=1	tr|B2GUX7|B2GUX7_RAT	0.000035
tr|D3ZKQ4|D3ZKQ4_RAT Protein Rabl6 OS=Rattus norvegicus GN=Rabl6 PE=1 SV=1	tr|D3ZKQ4|D3ZKQ4_RAT	0.00007
tr|F7FJQ3|F7FJQ3_RAT Niemann Pick type C2 OS=Rattus norvegicus GN=Npc2 PE=1 SV=1	tr|F7FJQ3|F7FJQ3_RAT	0.000035
sp|P24051|RS27L_RAT 40S ribosomal protein S27-like OS=Rattus norvegicus GN=Rps27l PE=1 SV=3	sp|P24051|RS27L_RAT	0.00017
sp|Q08850|STX4_RAT Syntaxin-4 OS=Rattus norvegicus GN=Stx4 PE=1 SV=1	sp|Q08850|STX4_RAT (+1)	0.00007
tr|D3ZJF7|D3ZJF7_RAT Protein Terf2 OS=Rattus norvegicus GN=Terf2 PE=1 SV=2	tr|D3ZJF7|D3ZJF7_RAT	0.0001
tr|D3ZEJ9|D3ZEJ9_RAT Protein RGD1310429 OS=Rattus norvegicus GN=RGD1310429 PE=1 SV=2	tr|D3ZEJ9|D3ZEJ9_RAT	0.00007
tr|G3V7M0|G3V7M0_RAT Protein Cnot1 OS=Rattus norvegicus GN=Cnot1 PE=1 SV=1	tr|G3V7M0|G3V7M0_RAT	0.00007
tr|A0A0G2JTK4|A0A0G2JTK4_RAT Protein Ppp6r1 OS=Rattus norvegicus GN=Ppp6r1 PE=1 SV=1	tr|A0A0G2JTK4|A0A0G2JTK4_RAT (+1)	0.0001
tr|D3ZNA5|D3ZNA5_RAT Uncharacterized protein (Fragment) OS=Rattus norvegicus GN=LOC686860 PE=3 SV=3	tr|D3ZNA5|D3ZNA5_RAT (+1)	0.0001
tr|D3ZUZ4|D3ZUZ4_RAT Protein Fam20b OS=Rattus norvegicus GN=Fam20b PE=1 SV=1	tr|D3ZUZ4|D3ZUZ4_RAT	0.00007
sp|P07687|HYEP_RAT Epoxide hydrolase 1 OS=Rattus norvegicus GN=Ephx1 PE=1 SV=1	sp|P07687|HYEP_RAT	0.00007
tr|A0A0G2JVM2|A0A0G2JVM2_RAT Protein Mia3 OS=Rattus norvegicus GN=Mia3 PE=1 SV=1	tr|A0A0G2JVM2|A0A0G2JVM2_RAT	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D3ZVI7|D3ZVI7_RAT Protein Sass6 OS=Rattus norvegicus GN=Sass6 PE=4 SV=2	tr|D3ZVI7|D3ZVI7_RAT	0.00007
tr|Q4QQS6|Q4QQS6_RAT Asparagine-linked glycosylation 5 homolog (Yeast, dolichyl-phosphate beta-glucosyltransferase), isoform CRA_a OS=Rattus norvegic	tr|Q4QQS6|Q4QQS6_RAT	0.000035
sp|P58366|ANKH_RAT Progressive ankylosis protein homolog OS=Rattus norvegicus GN=Ankh PE=2 SV=1	sp|P58366|ANKH_RAT (+1)	0.000035
tr|I2FHN3|I2FHN3_RAT Cathepsin L OS=Rattus norvegicus GN=Ctsl PE=1 SV=1	tr|I2FHN3|I2FHN3_RAT	0.00007
sp|Q68FR7|LTV1_RAT Protein LTV1 homolog OS=Rattus norvegicus GN=Ltv1 PE=2 SV=1	sp|Q68FR7|LTV1_RAT	0.00007
tr|Q6AXW2|Q6AXW2_RAT Protein Tmod3 OS=Rattus norvegicus GN=Tmod3 PE=1 SV=1	tr|Q6AXW2|Q6AXW2_RAT	0.00007
sp|B5DFN3|UQCC2_RAT Ubiquinol-cytochrome-c reductase complex assembly factor 2 OS=Rattus norvegicus GN=Uqcc2 PE=2 SV=1	sp|B5DFN3|UQCC2_RAT (+1)	0.00014
sp|P10818|CX6A1_RAT Cytochrome c oxidase subunit 6A1, mitochondrial OS=Rattus norvegicus GN=Cox6a1 PE=1 SV=2	sp|P10818|CX6A1_RAT	0.00007
sp|P39069|KAD1_RAT Adenylate kinase isoenzyme 1 OS=Rattus norvegicus GN=Ak1 PE=1 SV=3	sp|P39069|KAD1_RAT	0.00007
sp|P40307|PSB2_RAT Proteasome subunit beta type-2 OS=Rattus norvegicus GN=Psmb2 PE=1 SV=1	sp|P40307|PSB2_RAT	0.0001
sp|P50408|VATF_RAT V-type proton ATPase subunit F OS=Rattus norvegicus GN=Atp6v1f PE=1 SV=1	sp|P50408|VATF_RAT	0.00007
sp|P60825|CIRBP_RAT Cold-inducible RNA-binding protein OS=Rattus norvegicus GN=Cirbp PE=2 SV=1	sp|P60825|CIRBP_RAT	0.00007
sp|P60901|PSA6_RAT Proteasome subunit alpha type-6 OS=Rattus norvegicus GN=Psma6 PE=1 SV=1	sp|P60901|PSA6_RAT	0.0001
sp|P62076|TIM13_RAT Mitochondrial import inner membrane translocase subunit Tim13 OS=Rattus norvegicus GN=Timm13 PE=3 SV=1	sp|P62076|TIM13_RAT	0.00007
sp|Q3MID3|ARFG2_RAT ADP-ribosylation factor GTPase-activating protein 2 OS=Rattus norvegicus GN=Arfgap2 PE=1 SV=1	sp|Q3MID3|ARFG2_RAT	0.0001
sp|Q4QQW4|HDAC1_RAT Histone deacetylase 1 OS=Rattus norvegicus GN=Hdac1 PE=1 SV=1	sp|Q4QQW4|HDAC1_RAT	0.00007
sp|Q5XIA1|NCLN_RAT Nicalin OS=Rattus norvegicus GN=Ncln PE=2 SV=1	sp|Q5XIA1|NCLN_RAT (+1)	0.00007
sp|Q63065|PDK1_RAT [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial OS=Rattus norvegicus GN=Pdk1 PE=1 SV=1	sp|Q63065|PDK1_RAT (+1)	0.00007
sp|Q63525|NUDC_RAT Nuclear migration protein nudC OS=Rattus norvegicus GN=Nudc PE=1 SV=1	sp|Q63525|NUDC_RAT (+1)	0.00007
sp|Q64548-2|RTN1_RAT Isoform RTN1-S of Reticulon-1 OS=Rattus norvegicus GN=Rtn1	sp|Q64548-2|RTN1_RAT	0.0001
sp|Q66H12|NAGAB_RAT Alpha-N-acetylgalactosaminidase OS=Rattus norvegicus GN=Naga PE=2 SV=1	sp|Q66H12|NAGAB_RAT	0.0001
sp|Q6AYE2|SHLB1_RAT Endophilin-B1 OS=Rattus norvegicus GN=Sh3glb1 PE=2 SV=1	sp|Q6AYE2|SHLB1_RAT (+1)	0.0001
sp|Q9JIM0|MRE11_RAT Double-strand break repair protein MRE11A OS=Rattus norvegicus GN=Mre11a PE=1 SV=1	sp|Q9JIM0|MRE11_RAT (+1)	0.0001
sp|Q9WUF4|VAMP8_RAT Vesicle-associated membrane protein 8 OS=Rattus norvegicus GN=Vamp8 PE=1 SV=1	sp|Q9WUF4|VAMP8_RAT (+1)	0.0001
tr|A0A0G2JTX2|A0A0G2JTX2_RAT Protein Praf2 OS=Rattus norvegicus GN=Praf2 PE=1 SV=1	tr|A0A0G2JTX2|A0A0G2JTX2_RAT	0.00007
tr|A0A0G2JXL3|A0A0G2JXL3_RAT Protein Mrps18b (Fragment) OS=Rattus norvegicus GN=Mrps18b PE=1 SV=3	tr|A0A0G2JXL3|A0A0G2JXL3_RAT (+1)	0.00007
tr|A0A0G2K3M5|A0A0G2K3M5_RAT Protein Zfp281 OS=Rattus norvegicus GN=Zfp281 PE=1 SV=1	tr|A0A0G2K3M5|A0A0G2K3M5_RAT	0.00007
tr|D3Z9I1|D3Z9I1_RAT Protein Coa3 OS=Rattus norvegicus GN=Coa3 PE=1 SV=1	tr|D3Z9I1|D3Z9I1_RAT	0.00007
tr|M0RAD5|M0RAD5_RAT ATP-dependent Clp protease proteolytic subunit OS=Rattus norvegicus GN=Clpp PE=1 SV=1	tr|M0RAD5|M0RAD5_RAT	0.00014
tr|O89035|O89035_RAT Mitochondrial dicarboxylate carrier OS=Rattus norvegicus GN=Slc25a10 PE=1 SV=1	tr|O89035|O89035_RAT	0.0001
tr|Q5RJN0|Q5RJN0_RAT NADH dehydrogenase (Ubiquinone) Fe-S protein 7 OS=Rattus norvegicus GN=Ndufs7 PE=1 SV=1	tr|Q5RJN0|Q5RJN0_RAT	0.00007
sp|F1LNI5|PPM1G_RAT Protein phosphatase 1G OS=Rattus norvegicus GN=Ppm1g PE=1 SV=2	sp|F1LNI5|PPM1G_RAT (+1)	0.00007
sp|Q5I0P2|GCSH_RAT Glycine cleavage system H protein, mitochondrial OS=Rattus norvegicus GN=Gcsh PE=2 SV=1	sp|Q5I0P2|GCSH_RAT	0.0001
sp|Q6AYQ8|FAHD1_RAT Acylpyruvase FAHD1, mitochondrial OS=Rattus norvegicus GN=Fahd1 PE=1 SV=1	sp|Q6AYQ8|FAHD1_RAT	0.00007
tr|F1LTU4|F1LTU4_RAT Protein Mrto4 OS=Rattus norvegicus GN=Mrto4 PE=1 SV=2	tr|F1LTU4|F1LTU4_RAT	0.000035
tr|G3V9F3|G3V9F3_RAT Myosin phosphatase Rho-interacting protein OS=Rattus norvegicus GN=Mprip PE=1 SV=1	tr|G3V9F3|G3V9F3_RAT	0.00007
Cluster of sp|P56558|OGT1_RAT UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit OS=Rattus norvegicus GN=Ogt PE=1 SV=	sp|P56558|OGT1_RAT [2]	0.00007
sp|P56558|OGT1_RAT UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit OS=Rattus norvegicus GN=Ogt PE=1 SV=1	sp|P56558|OGT1_RAT (+1)	0.00007
tr|B5DFK6|B5DFK6_RAT Adaptor-related protein complex 3, delta 1 subunit, isoform CRA_b OS=Rattus norvegicus GN=Ap3d1 PE=1 SV=1	tr|B5DFK6|B5DFK6_RAT	0.00007
sp|Q6RJR6-2|RTN3_RAT Isoform 2 of Reticulon-3 OS=Rattus norvegicus GN=Rtn3	sp|Q6RJR6-2|RTN3_RAT (+1)	0.000035
sp|Q3T1I4|PRRC1_RAT Protein PRRC1 OS=Rattus norvegicus GN=Prrc1 PE=2 SV=1	sp|Q3T1I4|PRRC1_RAT (+1)	0.00007
sp|P17136|RSMB_RAT Small nuclear ribonucleoprotein-associated protein B (Fragment) OS=Rattus norvegicus GN=Snrpb PE=2 SV=1	sp|P17136|RSMB_RAT (+2)	0.00007
sp|P84903|STIM1_RAT Stromal interaction molecule 1 OS=Rattus norvegicus GN=Stim1 PE=1 SV=1	sp|P84903|STIM1_RAT (+1)	0.00007
sp|Q63135|CR1L_RAT Complement component receptor 1-like protein OS=Rattus norvegicus GN=Cr1l PE=1 SV=1	sp|Q63135|CR1L_RAT	0.000035
tr|F1M6D0|F1M6D0_RAT Protein Mrps6 OS=Rattus norvegicus GN=Mrps6 PE=1 SV=2	tr|F1M6D0|F1M6D0_RAT	0.000035
sp|Q6AY20|MPRD_RAT Cation-dependent mannose-6-phosphate receptor OS=Rattus norvegicus GN=M6pr PE=1 SV=1	sp|Q6AY20|MPRD_RAT	0.00007
tr|D3ZGR7|D3ZGR7_RAT Protein RGD1564093 OS=Rattus norvegicus GN=RGD1564093 PE=1 SV=1	tr|D3ZGR7|D3ZGR7_RAT	0.000035
tr|D3ZXF8|D3ZXF8_RAT Mitochondrial ribosomal protein L43 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrpl43 PE=1 SV=3	tr|D3ZXF8|D3ZXF8_RAT	0.00007
sp|P38718-2|MPC2_RAT Isoform Short of Mitochondrial pyruvate carrier 2 OS=Rattus norvegicus GN=Mpc2	sp|P38718-2|MPC2_RAT (+1)	0.00007
sp|P0DN35|NDUB1_RAT NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 1 OS=Rattus norvegicus GN=Ndufb1 PE=3 SV=1	sp|P0DN35|NDUB1_RAT	0.00007
sp|Q62625-2|MLP3B_RAT Isoform 2 of Microtubule-associated proteins 1A/1B light chain 3B OS=Rattus norvegicus GN=Map1lc3b	sp|Q62625-2|MLP3B_RAT (+2)	0.00007
Cluster of tr|A0A0G2JTP7|A0A0G2JTP7_RAT E3 ubiquitin-protein ligase RING2 OS=Rattus norvegicus GN=Rnf2 PE=1 SV=1 (tr|A0A0G2JTP7|A0A0G2JTP7_RAT)	tr|A0A0G2JTP7|A0A0G2JTP7_RAT [2]	0.0001
tr|A0A0G2JTP7|A0A0G2JTP7_RAT E3 ubiquitin-protein ligase RING2 OS=Rattus norvegicus GN=Rnf2 PE=1 SV=1	tr|A0A0G2JTP7|A0A0G2JTP7_RAT (+1)	0.0001
Cluster of tr|F1LN92|F1LN92_RAT Protein Afg3l2 OS=Rattus norvegicus GN=Afg3l2 PE=1 SV=1 (tr|F1LN92|F1LN92_RAT)	tr|F1LN92|F1LN92_RAT	0.00007
tr|F1LN92|F1LN92_RAT Protein Afg3l2 OS=Rattus norvegicus GN=Afg3l2 PE=1 SV=1	tr|F1LN92|F1LN92_RAT	0.00007
sp|D3ZTX0|TMED7_RAT Transmembrane emp24 domain-containing protein 7 OS=Rattus norvegicus GN=Tmed7 PE=1 SV=1	sp|D3ZTX0|TMED7_RAT	0.000035
sp|O35180|SH3G3_RAT Endophilin-A3 OS=Rattus norvegicus GN=Sh3gl3 PE=1 SV=2	sp|O35180|SH3G3_RAT (+1)	0
sp|P0C6P5|ARG28_RAT Rho guanine nucleotide exchange factor 28 OS=Rattus norvegicus GN=Arhgef28 PE=1 SV=1	sp|P0C6P5|ARG28_RAT	0.000035
sp|P55215|CASP2_RAT Caspase-2 OS=Rattus norvegicus GN=Casp2 PE=1 SV=3	sp|P55215|CASP2_RAT	0.000035
sp|P62994|GRB2_RAT Growth factor receptor-bound protein 2 OS=Rattus norvegicus GN=Grb2 PE=1 SV=1	sp|P62994|GRB2_RAT	0.000035
sp|Q5M818|RM16_RAT 39S ribosomal protein L16, mitochondrial OS=Rattus norvegicus GN=Mrpl16 PE=2 SV=1	sp|Q5M818|RM16_RAT	0.0001
sp|Q6MGA9|BRD2_RAT Bromodomain-containing protein 2 OS=Rattus norvegicus GN=Brd2 PE=1 SV=1	sp|Q6MGA9|BRD2_RAT	0.000035
sp|Q6TMG5|NEMO_RAT NF-kappa-B essential modulator OS=Rattus norvegicus GN=Ikbkg PE=2 SV=1	sp|Q6TMG5|NEMO_RAT	0.000035
sp|Q7TP65|ANKL2_RAT Ankyrin repeat and LEM domain-containing protein 2 OS=Rattus norvegicus GN=Ankle2 PE=2 SV=2	sp|Q7TP65|ANKL2_RAT (+1)	0.000035
sp|Q9ESZ0|XRCC1_RAT DNA repair protein XRCC1 OS=Rattus norvegicus GN=Xrcc1 PE=1 SV=2	sp|Q9ESZ0|XRCC1_RAT	0.000035
tr|A0A0G2K621|A0A0G2K621_RAT Protein Pnpla8 OS=Rattus norvegicus GN=Pnpla8 PE=1 SV=1	tr|A0A0G2K621|A0A0G2K621_RAT (+1)	0.0001
tr|B1H227|B1H227_RAT LOC682908 protein OS=Rattus norvegicus GN=Rcc1 PE=1 SV=1	tr|B1H227|B1H227_RAT	0.000035
tr|B2GUY4|B2GUY4_RAT Epb4.9 protein OS=Rattus norvegicus GN=Dmtn PE=1 SV=1	tr|B2GUY4|B2GUY4_RAT (+1)	0.000035

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|B2RYJ1|B2RYJ1_RAT Anapc2 protein OS=Rattus norvegicus GN=Anapc2 PE=1 SV=1	tr|B2RYJ1|B2RYJ1_RAT	0.0001
tr|D3ZAX5|D3ZAX5_RAT Calcium homeostasis endoplasmic reticulum protein (Predicted) OS=Rattus norvegicus GN=Cherp PE=1 SV=2	tr|D3ZAX5|D3ZAX5_RAT	0.000035
tr|D3ZBG6|D3ZBG6_RAT Protein Ptrhd1 OS=Rattus norvegicus GN=Ptrhd1 PE=1 SV=1	tr|D3ZBG6|D3ZBG6_RAT	0.000035
tr|D3ZGY1|D3ZGY1_RAT Protein Pym1 OS=Rattus norvegicus GN=Pym1 PE=1 SV=1	tr|D3ZGY1|D3ZGY1_RAT	0
tr|D3ZH75|D3ZH75_RAT AKT1 substrate 1 (Proline-rich) (Predicted), isoform CRA_d OS=Rattus norvegicus GN=Akt1s1 PE=1 SV=1	tr|D3ZH75|D3ZH75_RAT	0.000035
tr|D3ZQJ3|D3ZQJ3_RAT PERQ amino acid rich, with GYF domain 1 (Predicted) OS=Rattus norvegicus GN=Gigyf1 PE=1 SV=1	tr|D3ZQJ3|D3ZQJ3_RAT	0.000035
tr|D4A3V6|D4A3V6_RAT Biogenesis of lysosome-related organelles complex 1 subunit 3 OS=Rattus norvegicus GN=Bloc1s3 PE=1 SV=1	tr|D4A3V6|D4A3V6_RAT	0
tr|D4AB06|D4AB06_RAT Protein Haus5 OS=Rattus norvegicus GN=Haus5 PE=1 SV=3	tr|D4AB06|D4AB06_RAT	0.000035
tr|F1M842|F1M842_RAT Protein Tp53bp1 OS=Rattus norvegicus GN=Tp53bp1 PE=1 SV=3	tr|F1M842|F1M842_RAT	0.00014
tr|G3V684|G3V684_RAT Positive cofactor 2, multiprotein complex, glutamine/Q-rich-associated protein (Predicted), isoform CRA_a OS=Rattus norvegicus GN=	tr|G3V684|G3V684_RAT	0.000035
tr|G3V9R0|G3V9R0_RAT LUC7-like (S. cerevisiae), isoform CRA_b OS=Rattus norvegicus GN=Luc7l PE=1 SV=3	tr|G3V9R0|G3V9R0_RAT	0.000035
tr|M0RCP9|M0RCP9_RAT Protein Pin4 OS=Rattus norvegicus GN=Pin4 PE=1 SV=1	tr|M0RCP9|M0RCP9_RAT	0.000035
sp|O35179|SH3G2_RAT Endophilin-A1 OS=Rattus norvegicus GN=Sh3gl2 PE=1 SV=2	sp|O35179|SH3G2_RAT	0.00007
sp|P97633-2|KC1A_RAT Isoform 2 of Casein kinase I isoform alpha OS=Rattus norvegicus GN=Csnk1a1	sp|P97633-2|KC1A_RAT (+3)	0.000035
tr|A0A0G2JW60|A0A0G2JW60_RAT Protein Utrn OS=Rattus norvegicus GN=Utrn PE=1 SV=1	tr|A0A0G2JW60|A0A0G2JW60_RAT (+1)	0.0001
tr|A1L1J7|A1L1J7_RAT PDZ binding kinase OS=Rattus norvegicus GN=Pbk PE=1 SV=1	tr|A1L1J7|A1L1J7_RAT	0.000035
tr|D3ZJF9|D3ZJF9_RAT Protein Gla OS=Rattus norvegicus GN=Gla PE=1 SV=2	tr|D3ZJF9|D3ZJF9_RAT	0.000035
tr|D3ZPY0|D3ZPY0_RAT Protein Wtap OS=Rattus norvegicus GN=Wtap PE=1 SV=1	tr|D3ZPY0|D3ZPY0_RAT	0.000035
tr|D4A259|D4A259_RAT Polymerase (RNA) II (DNA directed) polypeptide D (Predicted) OS=Rattus norvegicus GN=Polr2d PE=1 SV=1	tr|D4A259|D4A259_RAT	0
tr|F1LR42|F1LR42_RAT Protein Rufy1 OS=Rattus norvegicus GN=Rufy1 PE=1 SV=1	tr|F1LR42|F1LR42_RAT	0.0001
sp|P06214|HEM2_RAT Delta-aminolevulinic acid dehydratase OS=Rattus norvegicus GN=Alad PE=1 SV=1	sp|P06214|HEM2_RAT	0.000035
sp|Q6AYK5|LYAR_RAT Cell growth-regulating nucleolar protein OS=Rattus norvegicus GN=Lyar PE=2 SV=1	sp|Q6AYK5|LYAR_RAT (+1)	0
sp|Q9ESS6|BCAM_RAT Basal cell adhesion molecule OS=Rattus norvegicus GN=Bcam PE=2 SV=1	sp|Q9ESS6|BCAM_RAT	0.000035
tr|A0A0G2JVH5|A0A0G2JVH5_RAT Protein Hltf OS=Rattus norvegicus GN=Hltf PE=1 SV=1	tr|A0A0G2JVH5|A0A0G2JVH5_RAT (+1)	0.0001
tr|D3ZFY0|D3ZFY0_RAT Protein Sephs1 OS=Rattus norvegicus GN=Sephs1 PE=1 SV=1	tr|D3ZFY0|D3ZFY0_RAT	0.000035
tr|D3ZUZ9|D3ZUZ9_RAT Peptidyl-prolyl cis-trans isomerase OS=Rattus norvegicus GN=Ppih PE=1 SV=2	tr|D3ZUZ9|D3ZUZ9_RAT (+1)	0.000035
tr|D4ABC7|D4ABC7_RAT Protein Uprt OS=Rattus norvegicus GN=Uprt PE=4 SV=1	tr|D4ABC7|D4ABC7_RAT	0.000035
sp|Q8VHI8|SEC20_RAT Vesicle transport protein SEC20 OS=Rattus norvegicus GN=Bnip1 PE=2 SV=1	sp|Q8VHI8|SEC20_RAT	0.0001
tr|D4A9N5|D4A9N5_RAT Protein Trim25 OS=Rattus norvegicus GN=Trim25 PE=1 SV=3	tr|D4A9N5|D4A9N5_RAT	0.0001
tr|E9PTW1|E9PTW1_RAT Protein Clk2 OS=Rattus norvegicus GN=Scamp3 PE=1 SV=2	tr|E9PTW1|E9PTW1_RAT	0.0001
sp|P31044|PEBP1_RAT Phosphatidylethanolamine-binding protein 1 OS=Rattus norvegicus GN=Pebp1 PE=1 SV=3	sp|P31044|PEBP1_RAT	0.000035
tr|B2RYN3|B2RYN3_RAT Eukaryotic translation elongation factor 1 epsilon 1 OS=Rattus norvegicus GN=Eef1e1 PE=1 SV=1	tr|B2RYN3|B2RYN3_RAT	0.0001
tr|F1LWG4|F1LWG4_RAT NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, assembly factor 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Nd	tr|F1LWG4|F1LWG4_RAT	0.000035
tr|Q4V794|Q4V794_RAT Protein Vps37a OS=Rattus norvegicus GN=Vps37a PE=1 SV=1	tr|Q4V794|Q4V794_RAT	0.000035
sp|B2GV71|NDUF5_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 5 OS=Rattus norvegicus GN=Ndufaf5 PE=2 SV=1	sp|B2GV71|NDUF5_RAT	0.000035
sp|Q10728-2|MYPT1_RAT Isoform 2 of Protein phosphatase 1 regulatory subunit 12A OS=Rattus norvegicus GN=Ppp1r12a	sp|Q10728-2|MYPT1_RAT (+6)	0
tr|G3V7N5|G3V7N5_RAT Carnitine O-palmitoyltransferase 2, mitochondrial OS=Rattus norvegicus GN=Cpt2 PE=1 SV=1	tr|G3V7N5|G3V7N5_RAT	0.0001
sp|P84092|AP2M1_RAT AP-2 complex subunit mu OS=Rattus norvegicus GN=Ap2m1 PE=1 SV=1	sp|P84092|AP2M1_RAT	0.0001
tr|D3ZE01|D3ZE01_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif14 PE=3 SV=3	tr|D3ZE01|D3ZE01_RAT	0.000035
tr|D3ZUL8|D3ZUL8_RAT Protein Zcchc8 OS=Rattus norvegicus GN=Zcchc8 PE=1 SV=3	tr|D3ZUL8|D3ZUL8_RAT	0
sp|Q562C2|BOP1_RAT Ribosome biogenesis protein BOP1 OS=Rattus norvegicus GN=Bop1 PE=1 SV=1	sp|Q562C2|BOP1_RAT	0.0001
tr|A0A0G2JZH8|A0A0G2JZH8_RAT Protein Pdhx OS=Rattus norvegicus GN=Pdhx PE=1 SV=1	tr|A0A0G2JZH8|A0A0G2JZH8_RAT (+1)	0
tr|A0A0G2K4D9|A0A0G2K4D9_RAT Protein Stag2 OS=Rattus norvegicus GN=Stag2 PE=1 SV=1	tr|A0A0G2K4D9|A0A0G2K4D9_RAT (+1)	0.00017
sp|Q5XI28|RAVR1_RAT Ribonucleoprotein PTB-binding 1 OS=Rattus norvegicus GN=Raver1 PE=1 SV=1	sp|Q5XI28|RAVR1_RAT	0.00007
tr|D3ZAP9|D3ZAP9_RAT Glycerol-3-phosphate dehydrogenase [NAD(+)] OS=Rattus norvegicus GN=Gpd1l PE=1 SV=1	tr|D3ZAP9|D3ZAP9_RAT	0.0001
sp|P13668|STMN1_RAT Stathmin OS=Rattus norvegicus GN=Stmn1 PE=1 SV=2	sp|P13668|STMN1_RAT (+1)	0.0001
tr|B2RYQ5|B2RYQ5_RAT Enhancer of rudimentary homolog OS=Rattus norvegicus GN=Erh PE=1 SV=1	tr|B2RYQ5|B2RYQ5_RAT	0.000035
tr|B1WC28|B1WC28_RAT Core histone macro-H2A OS=Rattus norvegicus GN=H2afy2 PE=1 SV=1	tr|B1WC28|B1WC28_RAT	0.00017
sp|Q5RJY4-2|DRS7B_RAT Isoform 2 of Dehydrogenase/reductase SDR family member 7B OS=Rattus norvegicus GN=Dhrs7b	sp|Q5RJY4-2|DRS7B_RAT (+1)	0.000035
sp|Q9Z0W7|CLIC4_RAT Chloride intracellular channel protein 4 OS=Rattus norvegicus GN=Clic4 PE=1 SV=3	sp|Q9Z0W7|CLIC4_RAT (+1)	0.000035
tr|A0A0G2JWR5|A0A0G2JWR5_RAT Protein LOC103694865 OS=Rattus norvegicus GN=LOC103694865 PE=4 SV=1	tr|A0A0G2JWR5|A0A0G2JWR5_RAT (+3)	0.0001
tr|Q6AY02|Q6AY02_RAT Protein Rbm17 OS=Rattus norvegicus GN=Rbm17 PE=1 SV=1	tr|Q6AY02|Q6AY02_RAT	0.0001
sp|Q5PPI1|SRSF9_RAT Serine/arginine-rich splicing factor 9 OS=Rattus norvegicus GN=Srsf9 PE=1 SV=1	sp|Q5PPI1|SRSF9_RAT	0.0001
tr|F1M3H8|F1M3H8_RAT Protein Hnrnpa0 OS=Rattus norvegicus GN=Hnrnpa0 PE=1 SV=3	tr|F1M3H8|F1M3H8_RAT	0.00014
tr|F1M9C0|F1M9C0_RAT Protein Mapkapk2 OS=Rattus norvegicus GN=Mapkapk2 PE=1 SV=3	tr|F1M9C0|F1M9C0_RAT	0.00007
tr|G3V9D3|G3V9D3_RAT Protein sel-1 homolog 1 OS=Rattus norvegicus GN=Sel1l PE=1 SV=1	tr|G3V9D3|G3V9D3_RAT	0.00007
sp|Q5PQN9|RM38_RAT 39S ribosomal protein L38, mitochondrial OS=Rattus norvegicus GN=Mrpl38 PE=2 SV=2	sp|Q5PQN9|RM38_RAT	0
sp|Q5HZV9|PP1R7_RAT Protein phosphatase 1 regulatory subunit 7 OS=Rattus norvegicus GN=Ppp1r7 PE=1 SV=1	sp|Q5HZV9|PP1R7_RAT	0
sp|B0BNA9|CNO11_RAT CCR4-NOT transcription complex subunit 11 OS=Rattus norvegicus GN=Cnot11 PE=2 SV=1	sp|B0BNA9|CNO11_RAT	0.00007
sp|B2RYI0|WDR91_RAT WD repeat-containing protein 91 OS=Rattus norvegicus GN=Wdr91 PE=2 SV=1	sp|B2RYI0|WDR91_RAT	0.00007
sp|O35093|TIM23_RAT Mitochondrial import inner membrane translocase subunit Tim23 OS=Rattus norvegicus GN=Timm23 PE=2 SV=1	sp|O35093|TIM23_RAT (+1)	0.00007
sp|O54921|EXOC2_RAT Exocyst complex component 2 OS=Rattus norvegicus GN=Exoc2 PE=1 SV=1	sp|O54921|EXOC2_RAT (+3)	0.00007
sp|P14562|LAMP1_RAT Lysosome-associated membrane glycoprotein 1 OS=Rattus norvegicus GN=Lamp1 PE=1 SV=1	sp|P14562|LAMP1_RAT	0.00007
sp|P19637|TPA_RAT Tissue-type plasminogen activator OS=Rattus norvegicus GN=Plat PE=2 SV=2	sp|P19637|TPA_RAT	0.000035
sp|P27867|DHSO_RAT Sorbitol dehydrogenase OS=Rattus norvegicus GN=Sord PE=1 SV=4	sp|P27867|DHSO_RAT	0.0001
sp|P29266|3HIDH_RAT 3-hydroxyisobutyrate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Hibadh PE=1 SV=3	sp|P29266|3HIDH_RAT	0.00007
sp|P47820|ACE_RAT Angiotensin-converting enzyme OS=Rattus norvegicus GN=Ace PE=1 SV=1	sp|P47820|ACE_RAT (+1)	0.00007
sp|P60522|GBRL2_RAT Gamma-aminobutyric acid receptor-associated protein-like 2 OS=Rattus norvegicus GN=Gabarapl2 PE=3 SV=1	sp|P60522|GBRL2_RAT	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|P61023|CHP1_RAT Calcineurin B homologous protein 1 OS=Rattus norvegicus GN=Chp1 PE=1 SV=2	sp|P61023|CHP1_RAT	0.000035
sp|P61212|ARL1_RAT ADP-ribosylation factor-like protein 1 OS=Rattus norvegicus GN=Arl1 PE=1 SV=1	sp|P61212|ARL1_RAT	0.00007
sp|P81799|NAGK_RAT N-acetyl-D-glucosamine kinase OS=Rattus norvegicus GN=Nagk PE=1 SV=4	sp|P81799|NAGK_RAT	0.00007
sp|Q32Q06|AP1M1_RAT AP-1 complex subunit mu-1 OS=Rattus norvegicus GN=Ap1m1 PE=1 SV=3	sp|Q32Q06|AP1M1_RAT	0.00007
sp|Q5EAJ6-2|IKIP_RAT Isoform 2 of Inhibitor of nuclear factor kappa-B kinase-interacting protein OS=Rattus norvegicus GN=Ikbip	sp|Q5EAJ6-2|IKIP_RAT	0.000035
sp|Q5EB77|RAB18_RAT Ras-related protein Rab-18 OS=Rattus norvegicus GN=Rab18 PE=2 SV=1	sp|Q5EB77|RAB18_RAT	0.00007
sp|Q5FVL2|EMC8_RAT ER membrane protein complex subunit 8 OS=Rattus norvegicus GN=Emc8 PE=2 SV=1	sp|Q5FVL2|EMC8_RAT	0.000035
sp|Q5U2N0|PYRG2_RAT CTP synthase 2 OS=Rattus norvegicus GN=Ctps2 PE=1 SV=1	sp|Q5U2N0|PYRG2_RAT	0.00007
sp|Q5XI29|CPSF7_RAT Cleavage and polyadenylation specificity factor subunit 7 OS=Rattus norvegicus GN=Cpsf7 PE=1 SV=1	sp|Q5XI29|CPSF7_RAT	0.00007
sp|Q5XI37|RT15_RAT 28S ribosomal protein S15, mitochondrial OS=Rattus norvegicus GN=Mrps15 PE=2 SV=1	sp|Q5XI37|RT15_RAT	0.00007
sp|Q5XI64|ABHD6_RAT Monoacylglycerol lipase ABHD6 OS=Rattus norvegicus GN=Abhd6 PE=1 SV=1	sp|Q5XI64|ABHD6_RAT	0.00007
sp|Q62902|LMAN1_RAT Protein ERGIC-53 OS=Rattus norvegicus GN=Lman1 PE=1 SV=1	sp|Q62902|LMAN1_RAT (+2)	0.0001
sp|Q63055|ARFRP_RAT ADP-ribosylation factor-related protein 1 OS=Rattus norvegicus GN=Arfrp1 PE=2 SV=1	sp|Q63055|ARFRP_RAT	0.00007
sp|Q63528|RFA2_RAT Replication protein A 32 kDa subunit OS=Rattus norvegicus GN=Rpa2 PE=2 SV=2	sp|Q63528|RFA2_RAT	0.000035
sp|Q63537-2|SYN2_RAT Isoform IIb of Synapsin-2 OS=Rattus norvegicus GN=Syn2	sp|Q63537-2|SYN2_RAT (+2)	0.00007
sp|Q63623|SCAF8_RAT Protein SCAF8 OS=Rattus norvegicus GN=Scaf8 PE=1 SV=1	sp|Q63623|SCAF8_RAT (+2)	0.000035
sp|Q642A0|PDRG1_RAT p53 and DNA damage-regulated protein 1 OS=Rattus norvegicus GN=Pdrg1 PE=2 SV=2	sp|Q642A0|PDRG1_RAT	0.00007
sp|Q66H02|CENPQ_RAT Centromere protein Q OS=Rattus norvegicus GN=Cenpq PE=2 SV=1	sp|Q66H02|CENPQ_RAT (+1)	0.00007
sp|Q66HG5|TM9S2_RAT Transmembrane 9 superfamily member 2 OS=Rattus norvegicus GN=Tm9sf2 PE=2 SV=1	sp|Q66HG5|TM9S2_RAT	0.00007
sp|Q68FW2|CDCA3_RAT Cell division cycle-associated protein 3 OS=Rattus norvegicus GN=Cdca3 PE=1 SV=1	sp|Q68FW2|CDCA3_RAT	0.000035
sp|Q68FX9|SIR5_RAT NAD-dependent protein deacylase sirtuin-5, mitochondrial OS=Rattus norvegicus GN=Sirt5 PE=2 SV=1	sp|Q68FX9|SIR5_RAT	0.00007
sp|Q68G38|TOR1A_RAT Torsin-1A OS=Rattus norvegicus GN=Tor1a PE=1 SV=1	sp|Q68G38|TOR1A_RAT	0.000035
sp|Q6AXT5|RAB21_RAT Ras-related protein Rab-21 OS=Rattus norvegicus GN=Rab21 PE=2 SV=1	sp|Q6AXT5|RAB21_RAT	0.00007
sp|Q6AY55|DCAKD_RAT Dephospho-CoA kinase domain-containing protein OS=Rattus norvegicus GN=Dcakd PE=2 SV=1	sp|Q6AY55|DCAKD_RAT	0.000035
sp|Q6AYB3|ISY1_RAT Pre-mRNA-splicing factor ISY1 homolog OS=Rattus norvegicus GN=Isy1 PE=2 SV=1	sp|Q6AYB3|ISY1_RAT	0.00007
sp|Q6AYG7|NF2IP_RAT NFATC2-interacting protein OS=Rattus norvegicus GN=Nfatc2ip PE=1 SV=1	sp|Q6AYG7|NF2IP_RAT	0.00007
sp|Q6AZ50|ATG3_RAT Ubiquitin-like-conjugating enzyme ATG3 OS=Rattus norvegicus GN=Atg3 PE=2 SV=1	sp|Q6AZ50|ATG3_RAT	0.00007
sp|Q6P4Z9|CSN8_RAT COP9 signalosome complex subunit 8 OS=Rattus norvegicus GN=Cops8 PE=2 SV=1	sp|Q6P4Z9|CSN8_RAT	0.00007
sp|Q704S8|CACP_RAT Carnitine O-acetyltransferase OS=Rattus norvegicus GN=Crat PE=1 SV=1	sp|Q704S8|CACP_RAT (+1)	0.00007
sp|Q71UE8|NEDD8_RAT NEDD8 OS=Rattus norvegicus GN=Nedd8 PE=1 SV=1	sp|Q71UE8|NEDD8_RAT (+1)	0.00007
sp|Q76EQ0|SRR_RAT Serine racemase OS=Rattus norvegicus GN=Srr PE=1 SV=1	sp|Q76EQ0|SRR_RAT	0.000035
sp|Q7TP48|APMAP_RAT Adipocyte plasma membrane-associated protein OS=Rattus norvegicus GN=Apmap PE=2 SV=2	sp|Q7TP48|APMAP_RAT (+1)	0.00007
sp|Q811U3|RB6I2_RAT ELKS/Rab6-interacting/CAST family member 1 OS=Rattus norvegicus GN=Erc1 PE=1 SV=1	sp|Q811U3|RB6I2_RAT (+2)	0.00007
sp|Q8K1P7|SMCA4_RAT Transcription activator BRG1 OS=Rattus norvegicus GN=Smarca4 PE=1 SV=1	sp|Q8K1P7|SMCA4_RAT (+1)	0.00007
sp|Q8K581|TXND9_RAT Thioredoxin domain-containing protein 9 OS=Rattus norvegicus GN=Txndc9 PE=2 SV=2	sp|Q8K581|TXND9_RAT (+1)	0.00007
sp|Q91XV6-2|FXYD6_RAT Isoform 2 of FXYD domain-containing ion transport regulator 6 OS=Rattus norvegicus GN=Fxyd6	sp|Q91XV6-2|FXYD6_RAT	0.000035
sp|Q99M64|P4K2A_RAT Phosphatidylinositol 4-kinase type 2-alpha OS=Rattus norvegicus GN=Pi4k2a PE=1 SV=1	sp|Q99M64|P4K2A_RAT	0.00007
sp|Q99ML5|PCYOX_RAT Prenylcysteine oxidase OS=Rattus norvegicus GN=Pcyox1 PE=1 SV=1	sp|Q99ML5|PCYOX_RAT	0.000035
sp|Q99ND9|RWDD1_RAT RWD domain-containing protein 1 OS=Rattus norvegicus GN=Rwdd1 PE=2 SV=1	sp|Q99ND9|RWDD1_RAT	0.00007
sp|Q9EP80|PICK1_RAT PRKCA-binding protein OS=Rattus norvegicus GN=Pick1 PE=1 SV=1	sp|Q9EP80|PICK1_RAT (+1)	0.00007
sp|Q9JI92|SDCB1_RAT Syntenin-1 OS=Rattus norvegicus GN=Sdcbp PE=1 SV=1	sp|Q9JI92|SDCB1_RAT	0.00007
sp|Q9WUJ3|MYOME_RAT Myomegalin OS=Rattus norvegicus GN=Pde4dip PE=1 SV=1	sp|Q9WUJ3|MYOME_RAT (+2)	0.0001
sp|Q9WV97|TIM9_RAT Mitochondrial import inner membrane translocase subunit Tim9 OS=Rattus norvegicus GN=Timm9 PE=1 SV=3	sp|Q9WV97|TIM9_RAT	0.000035
sp|Q9WVJ4|SYJ2B_RAT Synaptojanin-2-binding protein OS=Rattus norvegicus GN=Synj2bp PE=1 SV=2	sp|Q9WVJ4|SYJ2B_RAT	0.00007
tr|A0A096MJ99|A0A096MJ99_RAT Protein Vamp4 OS=Rattus norvegicus GN=Vamp4 PE=1 SV=1	tr|A0A096MJ99|A0A096MJ99_RAT (+1)	0.00007
tr|A0A096MJM8|A0A096MJM8_RAT Protein Las1l (Fragment) OS=Rattus norvegicus GN=Las1l PE=1 SV=1	tr|A0A096MJM8|A0A096MJM8_RAT (+1)	0.00007
tr|A0A096MJY1|A0A096MJY1_RAT Protein Gpc6 OS=Rattus norvegicus GN=Gpc6 PE=3 SV=1	tr|A0A096MJY1|A0A096MJY1_RAT	0.00007
tr|A0A0G2K1M7|A0A0G2K1M7_RAT Anoctamin OS=Rattus norvegicus GN=Ano6 PE=1 SV=1	tr|A0A0G2K1M7|A0A0G2K1M7_RAT	0.00007
tr|A0A0G2K415|A0A0G2K415_RAT Tripartite motif-containing protein 26 OS=Rattus norvegicus GN=Trim26 PE=1 SV=1	tr|A0A0G2K415|A0A0G2K415_RAT	0.00007
tr|A0A0G2K5A0|A0A0G2K5A0_RAT Protein Exosc8 OS=Rattus norvegicus GN=Exosc8 PE=1 SV=1	tr|A0A0G2K5A0|A0A0G2K5A0_RAT	0.000035
tr|A0A0G2K9J2|A0A0G2K9J2_RAT Protein Atp6v1h OS=Rattus norvegicus GN=Atp6v1h PE=1 SV=1	tr|A0A0G2K9J2|A0A0G2K9J2_RAT (+1)	0.00007
tr|A0A0G2KAE6|A0A0G2KAE6_RAT Protein Fam73b OS=Rattus norvegicus GN=Fam73b PE=1 SV=1	tr|A0A0G2KAE6|A0A0G2KAE6_RAT (+1)	0.00007
tr|A0A0U1RRU0|A0A0U1RRU0_RAT Protein Srpk1 OS=Rattus norvegicus GN=Srpk1 PE=4 SV=1	tr|A0A0U1RRU0|A0A0U1RRU0_RAT (+1)	0.00007
tr|B0BNJ5|B0BNJ5_RAT Endothelial differentiation-related factor 1 OS=Rattus norvegicus GN=Edf1 PE=1 SV=1	tr|B0BNJ5|B0BNJ5_RAT	0.00007
tr|B2RYS9|B2RYS9_RAT Protein Trmt112 OS=Rattus norvegicus GN=Trmt112 PE=1 SV=1	tr|B2RYS9|B2RYS9_RAT	0.00007
tr|D3ZD24|D3ZD24_RAT Protein Syne3 OS=Rattus norvegicus GN=Syne3 PE=4 SV=3	tr|D3ZD24|D3ZD24_RAT	0.00007
tr|D3ZF13|D3ZF13_RAT Acyl carrier protein OS=Rattus norvegicus GN=Ndufab1 PE=1 SV=1	tr|D3ZF13|D3ZF13_RAT	0
tr|D3ZFT1|D3ZFT1_RAT Protein Rfc1 OS=Rattus norvegicus GN=Rfc1 PE=1 SV=2	tr|D3ZFT1|D3ZFT1_RAT	0.00007
tr|D3ZIP8|D3ZIP8_RAT Protein Endod1 OS=Rattus norvegicus GN=Endod1 PE=4 SV=2	tr|D3ZIP8|D3ZIP8_RAT	0.00007
tr|D3ZIT4|D3ZIT4_RAT Anaphase promoting complex subunit 7 (Predicted) OS=Rattus norvegicus GN=Anapc7 PE=1 SV=1	tr|D3ZIT4|D3ZIT4_RAT	0.00007
tr|D3ZIX4|D3ZIX4_RAT Protein H1fx OS=Rattus norvegicus GN=H1fx PE=1 SV=1	tr|D3ZIX4|D3ZIX4_RAT	0.00007
tr|D3ZJ01|D3ZJ01_RAT Protein RGD1307235 OS=Rattus norvegicus GN=RGD1307235 PE=1 SV=1	tr|D3ZJ01|D3ZJ01_RAT	0.00007
tr|D3ZS58|D3ZS58_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 OS=Rattus norvegicus GN=Ndufa2 PE=1 SV=1	tr|D3ZS58|D3ZS58_RAT	0.00007
tr|D3ZTR5|D3ZTR5_RAT Protein Zbed5 OS=Rattus norvegicus GN=Zbed5 PE=4 SV=1	tr|D3ZTR5|D3ZTR5_RAT (+1)	0.00007
tr|D3ZU51|D3ZU51_RAT Protein Rpp30 OS=Rattus norvegicus GN=Rpp30 PE=1 SV=1	tr|D3ZU51|D3ZU51_RAT	0.00007
tr|D3ZV15|D3ZV15_RAT Protein Cbl OS=Rattus norvegicus GN=Cbl PE=1 SV=1	tr|D3ZV15|D3ZV15_RAT	0.00007
tr|D3ZWL9|D3ZWL9_RAT Protein Dido1 OS=Rattus norvegicus GN=Dido1 PE=1 SV=2	tr|D3ZWL9|D3ZWL9_RAT	0.000035
tr|D4A0C3|D4A0C3_RAT Protein Hid1 OS=Rattus norvegicus GN=Hid1 PE=1 SV=2	tr|D4A0C3|D4A0C3_RAT	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D4A0W1|D4A0W1_RAT Protein Emc4 OS=Rattus norvegicus GN=Emc4 PE=1 SV=1	tr|D4A0W1|D4A0W1_RAT	0.00007
tr|D4A3E1|D4A3E1_RAT Protein Hnrnpll OS=Rattus norvegicus GN=Hnrnpll PE=1 SV=1	tr|D4A3E1|D4A3E1_RAT	0.00007
tr|D4A463|D4A463_RAT Protein Tpgs1 OS=Rattus norvegicus GN=Tpgs1 PE=1 SV=1	tr|D4A463|D4A463_RAT	0.00007
tr|D4A4T0|D4A4T0_RAT Protein Stub1 OS=Rattus norvegicus GN=Stub1 PE=1 SV=1	tr|D4A4T0|D4A4T0_RAT	0.00007
tr|D4A676|D4A676_RAT GrpE protein homolog OS=Rattus norvegicus GN=Grpel2 PE=3 SV=1	tr|D4A676|D4A676_RAT	0.00007
tr|D4A9Z8|D4A9Z8_RAT Protein Chmp4bl1 OS=Rattus norvegicus GN=Chmp4bl1 PE=1 SV=1	tr|D4A9Z8|D4A9Z8_RAT (+1)	0.000035
tr|D4AAZ8|D4AAZ8_RAT Interferon regulatory factor 2 binding protein 1 (Predicted) OS=Rattus norvegicus GN=Irf2bp1 PE=1 SV=1	tr|D4AAZ8|D4AAZ8_RAT	0.00007
tr|D4AD36|D4AD36_RAT FCH and double SH3 domains 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Fchsd1 PE=1 SV=2	tr|D4AD36|D4AD36_RAT	0.00007
tr|D4AE00|D4AE00_RAT AP-3 complex subunit beta OS=Rattus norvegicus GN=Ap3b2 PE=1 SV=1	tr|D4AE00|D4AE00_RAT	0.00007
tr|D4AEK9|D4AEK9_RAT Protein Ccdc6 OS=Rattus norvegicus GN=Ccdc6 PE=1 SV=3	tr|D4AEK9|D4AEK9_RAT	0.00007
tr|F1LS72|F1LS72_RAT Protein Uba2 OS=Rattus norvegicus GN=Uba2 PE=1 SV=3	tr|F1LS72|F1LS72_RAT	0.00007
tr|F1LU70|F1LU70_RAT G patch domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Gpatch1 PE=1 SV=2	tr|F1LU70|F1LU70_RAT	0.000035
tr|F1LUK1|F1LUK1_RAT Protein Lrrc75a OS=Rattus norvegicus GN=Lrrc75a PE=4 SV=2	tr|F1LUK1|F1LUK1_RAT	0.00007
tr|F1M8E6|F1M8E6_RAT DNA ligase OS=Rattus norvegicus GN=LOC100911727 PE=3 SV=2	tr|F1M8E6|F1M8E6_RAT (+1)	0.00007
tr|G3V7N0|G3V7N0_RAT Heparan sulfate 2-O-sulfotransferase 1, isoform CRA_a OS=Rattus norvegicus GN=Hs2st1 PE=1 SV=1	tr|G3V7N0|G3V7N0_RAT	0.000035
tr|M0R3V4|M0R3V4_RAT Protein Mydgf OS=Rattus norvegicus GN=Mydgf PE=1 SV=2	tr|M0R3V4|M0R3V4_RAT	0.00007
tr|M0RA08|M0RA08_RAT Perilipin OS=Rattus norvegicus GN=Plin3 PE=1 SV=1	tr|M0RA08|M0RA08_RAT	0.00007
tr|M0RAI9|M0RAI9_RAT Protein Nelfcd OS=Rattus norvegicus GN=Nelfcd PE=1 SV=2	tr|M0RAI9|M0RAI9_RAT	0.00007
tr|Q496Z1|Q496Z1_RAT Bicaudal D homolog 2 (Drosophila) OS=Rattus norvegicus GN=Bicd2 PE=1 SV=1	tr|Q496Z1|Q496Z1_RAT (+1)	0.00007
tr|Q5PPG2|Q5PPG2_RAT Legumain OS=Rattus norvegicus GN=Lgmn PE=1 SV=1	tr|Q5PPG2|Q5PPG2_RAT	0.00007
tr|Q6AYD5|Q6AYD5_RAT G1 to S phase transition 1 OS=Rattus norvegicus GN=Gspt1 PE=1 SV=1	tr|Q6AYD5|Q6AYD5_RAT	0.00007
tr|Q7TP77|Q7TP77_RAT Aa2-277 OS=Rattus norvegicus GN=Mrpl49 PE=1 SV=1	tr|Q7TP77|Q7TP77_RAT	0.00007
sp|O08815|SLK_RAT STE20-like serine/threonine-protein kinase OS=Rattus norvegicus GN=Slk PE=1 SV=1	sp|O08815|SLK_RAT	0.00007
Cluster of sp|Q4V7C9|NKAP_RAT NF-kappa-B-activating protein OS=Rattus norvegicus GN=Nkap PE=2 SV=1 (sp|Q4V7C9|NKAP_RAT)	sp|Q4V7C9|NKAP_RAT [2]	0.00007
sp|Q4V7C9|NKAP_RAT NF-kappa-B-activating protein OS=Rattus norvegicus GN=Nkap PE=2 SV=1	sp|Q4V7C9|NKAP_RAT (+1)	0.00007
tr|B1H2A6|B1H2A6_RAT Fxr2 protein OS=Rattus norvegicus GN=Fxr2 PE=1 SV=1	tr|B1H2A6|B1H2A6_RAT	0.0001
tr|M0RC73|M0RC73_RAT Protein Naa16 OS=Rattus norvegicus GN=Naa16 PE=1 SV=2	tr|M0RC73|M0RC73_RAT	0.00014
sp|O55099|AURKB_RAT Aurora kinase B OS=Rattus norvegicus GN=Aurkb PE=1 SV=1	sp|O55099|AURKB_RAT	0.00007
sp|Q5PPF5|ZGPAT_RAT Zinc finger CCCH-type with G patch domain-containing protein OS=Rattus norvegicus GN=Zgpat PE=2 SV=1	sp|Q5PPF5|ZGPAT_RAT	0.00007
tr|E9PT85|E9PT85_RAT Protein Xrcc6 OS=Rattus norvegicus GN=Xrcc6 PE=1 SV=1	tr|E9PT85|E9PT85_RAT (+1)	0.00007
tr|A0A0U1RS22|A0A0U1RS22_RAT Protein Pmf1 OS=Rattus norvegicus GN=Pmf1 PE=4 SV=1	tr|A0A0U1RS22|A0A0U1RS22_RAT (+1)	0.00007
sp|O35854|BCAT2_RAT Branched-chain-amino-acid aminotransferase, mitochondrial OS=Rattus norvegicus GN=Bcat2 PE=1 SV=1	sp|O35854|BCAT2_RAT (+1)	0.00007
sp|P42667|SC11A_RAT Signal peptidase complex catalytic subunit SEC11A OS=Rattus norvegicus GN=Sec11a PE=2 SV=1	sp|P42667|SC11A_RAT (+1)	0.00007
sp|P63031|MPC1_RAT Mitochondrial pyruvate carrier 1 OS=Rattus norvegicus GN=Mpc1 PE=3 SV=1	sp|P63031|MPC1_RAT	0.00007
sp|Q5U209|RNH2A_RAT Ribonuclease H2 subunit A OS=Rattus norvegicus GN=Rnaseh2a PE=2 SV=1	sp|Q5U209|RNH2A_RAT	0.00007
sp|Q66H28|TM206_RAT Transmembrane protein 206 OS=Rattus norvegicus GN=Tmem206 PE=1 SV=1	sp|Q66H28|TM206_RAT	0.00007
sp|Q6BBI8|UFC1_RAT Ubiquitin-fold modifier-conjugating enzyme 1 OS=Rattus norvegicus GN=Ufc1 PE=2 SV=1	sp|Q6BBI8|UFC1_RAT	0.000035
tr|D3ZG88|D3ZG88_RAT Mammary tumor virus receptor 2, isoform CRA_a OS=Rattus norvegicus GN=Sssca1 PE=1 SV=1	tr|D3ZG88|D3ZG88_RAT	0.00007
tr|D3ZUM4|D3ZUM4_RAT Beta-galactosidase OS=Rattus norvegicus GN=Glb1 PE=1 SV=1	tr|D3ZUM4|D3ZUM4_RAT	0.00007
tr|M0RA39|M0RA39_RAT Protein Mxra7 OS=Rattus norvegicus GN=Mxra7 PE=1 SV=1	tr|M0RA39|M0RA39_RAT	0.00007
tr|Q5U2R9|Q5U2R9_RAT Protein Scfd2 OS=Rattus norvegicus GN=Scfd2 PE=1 SV=1	tr|Q5U2R9|Q5U2R9_RAT	0.00007
tr|D3ZEI6|D3ZEI6_RAT Nuclear receptor coactivator 5 (Predicted) OS=Rattus norvegicus GN=Ncoa5 PE=1 SV=1	tr|D3ZEI6|D3ZEI6_RAT	0.000035
sp|Q569B7|RWDD4_RAT RWD domain-containing protein 4 OS=Rattus norvegicus GN=Rwdd4 PE=2 SV=1	sp|Q569B7|RWDD4_RAT (+1)	0.00007
tr|D4A1H8|D4A1H8_RAT Protein Pwp1 OS=Rattus norvegicus GN=Pwp1 PE=1 SV=1	tr|D4A1H8|D4A1H8_RAT	0.00007
tr|D4AEP0|D4AEP0_RAT Adenylosuccinate synthetase isozyme 2 OS=Rattus norvegicus GN=Adss PE=1 SV=1	tr|D4AEP0|D4AEP0_RAT	0.00007
sp|Q9ES40|PRAF3_RAT PRA1 family protein 3 OS=Rattus norvegicus GN=Arl6ip5 PE=1 SV=1	sp|Q9ES40|PRAF3_RAT (+1)	0.0001
tr|A0A096MKH2|A0A096MKH2_RAT Protein Vta1 OS=Rattus norvegicus GN=Vta1 PE=1 SV=1	tr|A0A096MKH2|A0A096MKH2_RAT	0.00007
sp|P35053|GPC1_RAT Glypican-1 OS=Rattus norvegicus GN=Gpc1 PE=1 SV=1	sp|P35053|GPC1_RAT (+1)	0.00007
tr|B2RZ66|B2RZ66_RAT Protein Srp19 OS=Rattus norvegicus GN=Srp19 PE=1 SV=1	tr|B2RZ66|B2RZ66_RAT	0.000035
tr|B2GUZ9|B2GUZ9_RAT Fam49b protein OS=Rattus norvegicus GN=Fam49b PE=1 SV=1	tr|B2GUZ9|B2GUZ9_RAT	0.00007
sp|Q68FW4|STX18_RAT Syntaxin-18 OS=Rattus norvegicus GN=Stx18 PE=2 SV=1	sp|Q68FW4|STX18_RAT	0.00007
sp|Q5U2M8|MDC1_RAT Mediator of DNA damage checkpoint protein 1 OS=Rattus norvegicus GN=Mdc1 PE=1 SV=2	sp|Q5U2M8|MDC1_RAT	0.000035
sp|Q6AYI5|SHOC2_RAT Leucine-rich repeat protein SHOC-2 OS=Rattus norvegicus GN=Shoc2 PE=2 SV=1	sp|Q6AYI5|SHOC2_RAT	0.00007
tr|F1M8A5|F1M8A5_RAT Protein Hypk OS=Rattus norvegicus GN=Hypk PE=1 SV=1	tr|F1M8A5|F1M8A5_RAT	0.000035
sp|Q5RK19|SNF8_RAT Vacuolar-sorting protein SNF8 OS=Rattus norvegicus GN=Snf8 PE=1 SV=1	sp|Q5RK19|SNF8_RAT	0.00007
sp|P08081-2|CLCA_RAT Isoform Non-brain of Clathrin light chain A OS=Rattus norvegicus GN=Clta	sp|P08081-2|CLCA_RAT	0.00007
sp|P37996|ARL3_RAT ADP-ribosylation factor-like protein 3 OS=Rattus norvegicus GN=Arl3 PE=1 SV=2	sp|P37996|ARL3_RAT	0.00007
sp|Q63615|VP33A_RAT Vacuolar protein sorting-associated protein 33A OS=Rattus norvegicus GN=Vps33a PE=1 SV=1	sp|Q63615|VP33A_RAT	0.00007
tr|D3ZZ21|D3ZZ21_RAT NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 6 (Predicted) OS=Rattus norvegicus GN=Ndufb6 PE=1 SV=1	tr|D3ZZ21|D3ZZ21_RAT	0.00007
tr|D4ACM1|D4ACM1_RAT Protein Elp3 OS=Rattus norvegicus GN=Elp3 PE=1 SV=2	tr|D4ACM1|D4ACM1_RAT	0.00007
sp|Q5U1X1|ORN_RAT Oligoribonuclease, mitochondrial OS=Rattus norvegicus GN=Rexo2 PE=2 SV=1	sp|Q5U1X1|ORN_RAT (+1)	0.00007
sp|P28494|MA2A1_RAT Alpha-mannosidase 2 OS=Rattus norvegicus GN=Man2a1 PE=1 SV=2	sp|P28494|MA2A1_RAT	0.00007
sp|P20611|PPAL_RAT Lysosomal acid phosphatase OS=Rattus norvegicus GN=Acp2 PE=1 SV=1	sp|P20611|PPAL_RAT (+1)	0.000035
sp|Q2KMM2|TPPC1_RAT Trafficking protein particle complex subunit 1 OS=Rattus norvegicus GN=Trappc1 PE=2 SV=1	sp|Q2KMM2|TPPC1_RAT	0.000035
sp|Q9EPJ3|RT26_RAT 28S ribosomal protein S26, mitochondrial OS=Rattus norvegicus GN=Mrps26 PE=1 SV=1	sp|Q9EPJ3|RT26_RAT	0.00007
sp|P70581-2|NUP58_RAT Isoform p45 of Nucleoporin p58/p45 OS=Rattus norvegicus GN=Nup58	sp|P70581-2|NUP58_RAT (+4)	0
sp|Q5BJT7|CCD93_RAT Coiled-coil domain-containing protein 93 OS=Rattus norvegicus GN=Ccdc93 PE=1 SV=1	sp|Q5BJT7|CCD93_RAT	0.0001
sp|Q5EAN7|TE2IP_RAT Telomeric repeat-binding factor 2-interacting protein 1 OS=Rattus norvegicus GN=Terf2ip PE=1 SV=1	sp|Q5EAN7|TE2IP_RAT	0

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q6J2U6|RN114_RAT E3 ubiquitin-protein ligase RNF114 OS=Rattus norvegicus GN=Rnf114 PE=2 SV=1	sp|Q6J2U6|RN114_RAT	0
tr|A0A0G2K865|A0A0G2K865_RAT Protein Tpd52 OS=Rattus norvegicus GN=Tpd52 PE=1 SV=1	tr|A0A0G2K865|A0A0G2K865_RAT	0
tr|D3ZEM8|D3ZEM8_RAT Protein Tsr1 OS=Rattus norvegicus GN=Tsr1 PE=1 SV=1	tr|D3ZEM8|D3ZEM8_RAT	0.0001
tr|D3ZGY2|D3ZGY2_RAT Protein Otud6b OS=Rattus norvegicus GN=Otud6b PE=1 SV=2	tr|D3ZGY2|D3ZGY2_RAT	0
tr|D3ZM09|D3ZM09_RAT Protein Sars2 OS=Rattus norvegicus GN=Sars2 PE=1 SV=1	tr|D3ZM09|D3ZM09_RAT	0
tr|D4AC99|D4AC99_RAT Protein Chtf18 OS=Rattus norvegicus GN=Chtf18 PE=4 SV=2	tr|D4AC99|D4AC99_RAT	0.0001
tr|D4ACK1|D4ACK1_RAT Protein Nup214 OS=Rattus norvegicus GN=Nup214 PE=1 SV=2	tr|D4ACK1|D4ACK1_RAT	0.0001
tr|F1M5V2|F1M5V2_RAT Protein Glipr2 OS=Rattus norvegicus GN=Glipr2 PE=1 SV=3	tr|F1M5V2|F1M5V2_RAT	0
tr|D4A7F2|D4A7F2_RAT Protein Mycbp OS=Rattus norvegicus GN=Mycbp PE=1 SV=1	tr|D4A7F2|D4A7F2_RAT	0
tr|Q5XIR2|Q5XIR2_RAT Intraflagellar transport 74 homolog (Chlamydomonas) OS=Rattus norvegicus GN=Ift74 PE=1 SV=1	tr|Q5XIR2|Q5XIR2_RAT	0
tr|F1LZ00|F1LZ00_RAT Protein LOC679894 OS=Rattus norvegicus GN=LOC679894 PE=4 SV=3	tr|F1LZ00|F1LZ00_RAT	0.0001
tr|M0R919|M0R919_RAT Prefoldin subunit 3 OS=Rattus norvegicus GN=Vbp1 PE=1 SV=2	tr|M0R919|M0R919_RAT	0.000035
tr|F1M9W9|F1M9W9_RAT Protein LOC103689930 OS=Rattus norvegicus GN=Trappc8 PE=1 SV=2	tr|F1M9W9|F1M9W9_RAT	0.0001
sp|P81718|PTN6_RAT Tyrosine-protein phosphatase non-receptor type 6 OS=Rattus norvegicus GN=Ptpn6 PE=1 SV=1	sp|P81718|PTN6_RAT (+3)	0.0001
sp|Q499N6|UBXN1_RAT UBX domain-containing protein 1 OS=Rattus norvegicus GN=Ubxn1 PE=3 SV=2	sp|Q499N6|UBXN1_RAT	0
sp|P50399|GDIB_RAT Rab GDP dissociation inhibitor beta OS=Rattus norvegicus GN=Gdi2 PE=1 SV=2	sp|P50399|GDIB_RAT	0
sp|P08010|GSTM2_RAT Glutathione S-transferase Mu 2 OS=Rattus norvegicus GN=Gstm2 PE=1 SV=2	sp|P08010|GSTM2_RAT	0.00014
sp|B4F7A1|LYRM7_RAT Complex III assembly factor LYRM7 OS=Rattus norvegicus GN=Lyrm7 PE=3 SV=1	sp|B4F7A1|LYRM7_RAT	0
sp|Q6AYS8|DHB11_RAT Estradiol 17-beta-dehydrogenase 11 OS=Rattus norvegicus GN=Hsd17b11 PE=2 SV=1	sp|Q6AYS8|DHB11_RAT	0
tr|E9PT65|E9PT65_RAT Protein Rdx OS=Rattus norvegicus GN=Rdx PE=1 SV=2	tr|E9PT65|E9PT65_RAT	0.00017
tr|D4A3T3|D4A3T3_RAT Protein Cbx1 OS=Rattus norvegicus GN=Cbx1 PE=1 SV=1	tr|D4A3T3|D4A3T3_RAT	0.000035
tr|F1LQ09|F1LQ09_RAT Protein Atl2 OS=Rattus norvegicus GN=Atl2 PE=1 SV=1	tr|F1LQ09|F1LQ09_RAT	0.0001
tr|Q5U214|Q5U214_RAT Protein Snrpa OS=Rattus norvegicus GN=Snrpa PE=1 SV=1	tr|Q5U214|Q5U214_RAT	0.00007
sp|B2GV05|RBM5_RAT RNA-binding protein 5 OS=Rattus norvegicus GN=Rbm5 PE=1 SV=1	sp|B2GV05|RBM5_RAT	0.000035
sp|B5DF51|MMGT1_RAT Membrane magnesium transporter 1 OS=Rattus norvegicus GN=Mmgt1 PE=2 SV=1	sp|B5DF51|MMGT1_RAT	0.000035
sp|D3ZKD3|ALKB5_RAT RNA demethylase ALKBH5 OS=Rattus norvegicus GN=Alkbh5 PE=1 SV=1	sp|D3ZKD3|ALKB5_RAT	0.000035
sp|D3ZTQ1|SFSWA_RAT Splicing factor, suppressor of white-apricot homolog OS=Rattus norvegicus GN=Sfswap PE=1 SV=1	sp|D3ZTQ1|SFSWA_RAT (+1)	0.00007
sp|D3ZW55|ITPA_RAT Inosine triphosphate pyrophosphatase OS=Rattus norvegicus GN=Itpa PE=3 SV=1	sp|D3ZW55|ITPA_RAT	0.000035
sp|D4AAT7|NNRD_RAT ATP-dependent (S)-NAD(P)H-hydrate dehydratase OS=Rattus norvegicus GN=Carkd PE=3 SV=1	sp|D4AAT7|NNRD_RAT (+1)	0.000035
sp|O08984|LBR_RAT Lamin-B receptor OS=Rattus norvegicus GN=Lbr PE=1 SV=1	sp|O08984|LBR_RAT	0.00007
sp|O55035|PPIG_RAT Peptidyl-prolyl cis-trans isomerase G OS=Rattus norvegicus GN=Ppig PE=1 SV=2	sp|O55035|PPIG_RAT (+1)	0.000035
sp|O70513|LG3BP_RAT Galectin-3-binding protein OS=Rattus norvegicus GN=Lgals3bp PE=1 SV=2	sp|O70513|LG3BP_RAT	0.000035
sp|O70593|SGTA_RAT Small glutamine-rich tetratricopeptide repeat-containing protein alpha OS=Rattus norvegicus GN=Sgta PE=1 SV=1	sp|O70593|SGTA_RAT	0.000035
sp|P07151|B2MG_RAT Beta-2-microglobulin OS=Rattus norvegicus GN=B2m PE=1 SV=1	sp|P07151|B2MG_RAT	0.000035
sp|P07174|TNR16_RAT Tumor necrosis factor receptor superfamily member 16 OS=Rattus norvegicus GN=Ngfr PE=1 SV=1	sp|P07174|TNR16_RAT (+1)	0.000035
sp|P0C089|PTPM1_RAT Phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1 OS=Rattus norvegicus GN=Ptpmt1 PE=2 SV=1	sp|P0C089|PTPM1_RAT (+1)	0.00007
sp|P0C5W1|MAP1S_RAT Microtubule-associated protein 1S OS=Rattus norvegicus GN=Map1s PE=1 SV=1	sp|P0C5W1|MAP1S_RAT (+1)	0.00007
sp|P27321-2|ICAL_RAT Isoform 2 of Calpastatin OS=Rattus norvegicus GN=Cast	sp|P27321-2|ICAL_RAT (+7)	0.000035
sp|P52591|PO121_RAT Nuclear envelope pore membrane protein POM 121 OS=Rattus norvegicus GN=Pom121 PE=1 SV=1	sp|P52591|PO121_RAT (+1)	0.00007
sp|P61480|WDR12_RAT Ribosome biogenesis protein WDR12 OS=Rattus norvegicus GN=Wdr12 PE=2 SV=1	sp|P61480|WDR12_RAT	0.00007
sp|P61805|DAD1_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1 OS=Rattus norvegicus GN=Dad1 PE=3 SV=3	sp|P61805|DAD1_RAT	0.00007
sp|Q07984|SSRD_RAT Translocon-associated protein subunit delta OS=Rattus norvegicus GN=Ssr4 PE=2 SV=1	sp|Q07984|SSRD_RAT	0.00007
sp|Q3B8Q0|MARE2_RAT Microtubule-associated protein RP/EB family member 2 OS=Rattus norvegicus GN=Mapre2 PE=1 SV=1	sp|Q3B8Q0|MARE2_RAT (+2)	0.00007
sp|Q4V7E8|LRRF2_RAT Leucine-rich repeat flightless-interacting protein 2 OS=Rattus norvegicus GN=Lrrfip2 PE=1 SV=1	sp|Q4V7E8|LRRF2_RAT	0.000035
sp|Q562A2|ZFR_RAT Zinc finger RNA-binding protein OS=Rattus norvegicus GN=Zfr PE=1 SV=2	sp|Q562A2|ZFR_RAT (+1)	0.000035
sp|Q5BK48|TTC5_RAT Tetratricopeptide repeat protein 5 OS=Rattus norvegicus GN=Ttc5 PE=2 SV=1	sp|Q5BK48|TTC5_RAT	0.00007
sp|Q5I0G4|SYG_RAT Glycine--tRNA ligase (Fragment) OS=Rattus norvegicus GN=Gars PE=1 SV=1	sp|Q5I0G4|SYG_RAT (+1)	0.00007
sp|Q5I0K8|RT07_RAT 28S ribosomal protein S7, mitochondrial OS=Rattus norvegicus GN=Mrps7 PE=2 SV=2	sp|Q5I0K8|RT07_RAT	0.00007
sp|Q5M824|SHC1_RAT SHC-transforming protein 1 OS=Rattus norvegicus GN=Shc1 PE=1 SV=1	sp|Q5M824|SHC1_RAT (+2)	0.000035
sp|Q5PQX0|UXS1_RAT UDP-glucuronic acid decarboxylase 1 OS=Rattus norvegicus GN=Uxs1 PE=1 SV=1	sp|Q5PQX0|UXS1_RAT	0.000035
sp|Q5RKH6|OS9_RAT Protein OS-9 OS=Rattus norvegicus GN=Os9 PE=1 SV=1	sp|Q5RKH6|OS9_RAT	0.000035
sp|Q5U1Y1|RAB34_RAT Ras-related protein Rab-34 OS=Rattus norvegicus GN=Rab34 PE=2 SV=1	sp|Q5U1Y1|RAB34_RAT (+2)	0.00007
sp|Q5U204|LTOR3_RAT Ragulator complex protein LAMTOR3 OS=Rattus norvegicus GN=Lamtor3 PE=2 SV=1	sp|Q5U204|LTOR3_RAT	0.000035
sp|Q5XIB5|CCD86_RAT Coiled-coil domain-containing protein 86 OS=Rattus norvegicus GN=Ccdc86 PE=1 SV=1	sp|Q5XIB5|CCD86_RAT	0
sp|Q5XII0|EPDR1_RAT Mammalian ependymin-related protein 1 OS=Rattus norvegicus GN=Epdr1 PE=2 SV=1	sp|Q5XII0|EPDR1_RAT	0.00007
sp|Q5XII9|MFR1L_RAT Mitochondrial fission regulator 1-like OS=Rattus norvegicus GN=Mtfr1l PE=1 SV=1	sp|Q5XII9|MFR1L_RAT	0.000035
sp|Q63560|MAP6_RAT Microtubule-associated protein 6 OS=Rattus norvegicus GN=Map6 PE=1 SV=1	sp|Q63560|MAP6_RAT (+1)	0.000035
sp|Q63707|PYRD_RAT Dihydroorotate dehydrogenase (quinone), mitochondrial OS=Rattus norvegicus GN=Dhodh PE=1 SV=1	sp|Q63707|PYRD_RAT	0.000035
sp|Q642A5|DPOE3_RAT DNA polymerase epsilon subunit 3 OS=Rattus norvegicus GN=Pole3 PE=1 SV=1	sp|Q642A5|DPOE3_RAT	0.000035
sp|Q64LC9|RBM4B_RAT RNA-binding protein 4B OS=Rattus norvegicus GN=Rbm4b PE=2 SV=2	sp|Q64LC9|RBM4B_RAT	0.00007
sp|Q68FW9|CSN3_RAT COP9 signalosome complex subunit 3 OS=Rattus norvegicus GN=Cops3 PE=1 SV=1	sp|Q68FW9|CSN3_RAT	0.00007
sp|Q6MGB5|DHB8_RAT Estradiol 17-beta-dehydrogenase 8 OS=Rattus norvegicus GN=Hsd17b8 PE=1 SV=1	sp|Q6MGB5|DHB8_RAT	0.00007
sp|Q6P686|OSTF1_RAT Osteoclast-stimulating factor 1 OS=Rattus norvegicus GN=Ostf1 PE=1 SV=1	sp|Q6P686|OSTF1_RAT	0.000035
sp|Q6P777|MB12A_RAT Multivesicular body subunit 12A OS=Rattus norvegicus GN=Mvb12a PE=1 SV=1	sp|Q6P777|MB12A_RAT	0.00007
sp|Q6P791|LTOR1_RAT Ragulator complex protein LAMTOR1 OS=Rattus norvegicus GN=Lamtor1 PE=1 SV=1	sp|Q6P791|LTOR1_RAT	0.000035
sp|Q6TQE1-2|ZCH18_RAT Isoform B of Zinc finger CCCH domain-containing protein 18 OS=Rattus norvegicus GN=Zc3h18	sp|Q6TQE1-2|ZCH18_RAT (+1)	0.000035
sp|Q7TQ72|MIS12_RAT Protein MIS12 homolog OS=Rattus norvegicus GN=Mis12 PE=2 SV=2	sp|Q7TQ72|MIS12_RAT (+1)	0.00007
sp|Q7TSP2|KIF15_RAT Kinesin-like protein KIF15 OS=Rattus norvegicus GN=Kif15 PE=2 SV=1	sp|Q7TSP2|KIF15_RAT (+1)	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

sp|Q7TT47|SPG7_RAT Paraplegin OS=Rattus norvegicus GN=Spg7 PE=2 SV=1	sp|Q7TT47|SPG7_RAT (+1)	0.000035
sp|Q8CGS4|CHMP3_RAT Charged multivesicular body protein 3 OS=Rattus norvegicus GN=Chmp3 PE=1 SV=3	sp|Q8CGS4|CHMP3_RAT	0.000035
sp|Q8CHN6|SGPL1_RAT Sphingosine-1-phosphate lyase 1 OS=Rattus norvegicus GN=Sgpl1 PE=2 SV=1	sp|Q8CHN6|SGPL1_RAT	0.00007
sp|Q8K4F7|DCPS_RAT m7GpppX diphosphatase OS=Rattus norvegicus GN=Dcps PE=2 SV=1	sp|Q8K4F7|DCPS_RAT (+1)	0.000035
sp|Q8VBU2-2|NDRG2_RAT Isoform 2 of Protein NDRG2 OS=Rattus norvegicus GN=Ndrg2	sp|Q8VBU2-2|NDRG2_RAT (+3)	0.000035
sp|Q8VHV8|SELS_RAT Selenoprotein S OS=Rattus norvegicus GN=Vimp PE=2 SV=3	sp|Q8VHV8|SELS_RAT (+2)	0.00007
sp|Q91ZS3-2|CAB45_RAT Isoform 2 of 45 kDa calcium-binding protein OS=Rattus norvegicus GN=Sdf4	sp|Q91ZS3-2|CAB45_RAT (+2)	0.000035
sp|Q923V8|SEP15_RAT 15 kDa selenoprotein OS=Rattus norvegicus GN=Sep15 PE=1 SV=3	sp|Q923V8|SEP15_RAT (+1)	0.000035
sp|Q9JJW3|USMG5_RAT Up-regulated during skeletal muscle growth protein 5 OS=Rattus norvegicus GN=Usmg5 PE=1 SV=1	sp|Q9JJW3|USMG5_RAT	0.00007
sp|Q9JKL8|ADNP_RAT Activity-dependent neuroprotector homeobox protein OS=Rattus norvegicus GN=Adnp PE=1 SV=2	sp|Q9JKL8|ADNP_RAT	0.00007
sp|Q9R050|SSBP3_RAT Single-stranded DNA-binding protein 3 OS=Rattus norvegicus GN=Ssbp3 PE=1 SV=1	sp|Q9R050|SSBP3_RAT (+3)	0.000035
sp|Q9R080-4|GPSM1_RAT Isoform 4 of G-protein-signaling modulator 1 OS=Rattus norvegicus GN=Gpsm1	sp|Q9R080-4|GPSM1_RAT (+2)	0.000035
sp|Q9Z1B2|GSTM5_RAT Glutathione S-transferase Mu 5 OS=Rattus norvegicus GN=Gstm5 PE=1 SV=3	sp|Q9Z1B2|GSTM5_RAT	0.000035
sp|Q9Z1E1|FLOT1_RAT Flotillin-1 OS=Rattus norvegicus GN=Flot1 PE=2 SV=2	sp|Q9Z1E1|FLOT1_RAT	0.00007
sp|Q9Z2S9-2|FLOT2_RAT Isoform 2 of Flotillin-2 OS=Rattus norvegicus GN=Flot2	sp|Q9Z2S9-2|FLOT2_RAT (+4)	0.000035
tr|A0A096MKC0|A0A096MKC0_RAT Protein Gigyf2 (Fragment) OS=Rattus norvegicus GN=Gigyf2 PE=1 SV=1	tr|A0A096MKC0|A0A096MKC0_RAT	0.00007
tr|A0A0G2JT90|A0A0G2JT90_RAT Protein Ash2l OS=Rattus norvegicus GN=Ash2l PE=1 SV=1	tr|A0A0G2JT90|A0A0G2JT90_RAT (+1)	0.000035
tr|A0A0G2JUT7|A0A0G2JUT7_RAT Protein B3glct OS=Rattus norvegicus GN=B3glct PE=1 SV=1	tr|A0A0G2JUT7|A0A0G2JUT7_RAT	0.00007
tr|A0A0G2JVD0|A0A0G2JVD0_RAT Protein Rbm28 OS=Rattus norvegicus GN=Rbm28 PE=1 SV=1	tr|A0A0G2JVD0|A0A0G2JVD0_RAT (+1)	0.00007
tr|A0A0G2JVP5|A0A0G2JVP5_RAT Protein Paip1 OS=Rattus norvegicus GN=Paip1 PE=1 SV=1	tr|A0A0G2JVP5|A0A0G2JVP5_RAT (+1)	0.000035
tr|A0A0G2JZB6|A0A0G2JZB6_RAT Uncharacterized protein OS=Rattus norvegicus PE=1 SV=1	tr|A0A0G2JZB6|A0A0G2JZB6_RAT	0.000035
tr|A0A0G2K0E0|A0A0G2K0E0_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 56 OS=Rattus norvegicus GN=Ddx56 PE=1 SV=1	tr|A0A0G2K0E0|A0A0G2K0E0_RAT	0.000035
tr|A0A0G2K315|A0A0G2K315_RAT Uncharacterized protein OS=Rattus norvegicus PE=1 SV=1	tr|A0A0G2K315|A0A0G2K315_RAT (+1)	0.00007
tr|A0A0G2K4F6|A0A0G2K4F6_RAT Protein Srrm1 OS=Rattus norvegicus GN=Srrm1 PE=1 SV=1	tr|A0A0G2K4F6|A0A0G2K4F6_RAT (+1)	0.000035
tr|A0A0G2K4T8|A0A0G2K4T8_RAT Mitochondrial intermediate peptidase OS=Rattus norvegicus GN=Mipep PE=1 SV=1	tr|A0A0G2K4T8|A0A0G2K4T8_RAT	0.000035
tr|A0A0G2K542|A0A0G2K542_RAT Protein Ugp2 OS=Rattus norvegicus GN=Ugp2 PE=1 SV=1	tr|A0A0G2K542|A0A0G2K542_RAT (+1)	0
tr|A0A0G2K7J6|A0A0G2K7J6_RAT Uncharacterized protein OS=Rattus norvegicus GN=Card19 PE=1 SV=1	tr|A0A0G2K7J6|A0A0G2K7J6_RAT (+1)	0.000035
tr|A0A0G2K9F7|A0A0G2K9F7_RAT Protein Zmynd8 OS=Rattus norvegicus GN=Zmynd8 PE=1 SV=1	tr|A0A0G2K9F7|A0A0G2K9F7_RAT	0.00007
tr|A0A0G2KA71|A0A0G2KA71_RAT Protein Pvrl2 OS=Rattus norvegicus GN=Pvrl2 PE=1 SV=1	tr|A0A0G2KA71|A0A0G2KA71_RAT	0.000035
tr|A0A0G2QC15|A0A0G2QC15_RAT HIV-1 tat interactive protein 2, homolog (Human) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Htatip2 PE=1 SV=1	tr|A0A0G2QC15|A0A0G2QC15_RAT	0.000035
tr|A0A0G2QC59|A0A0G2QC59_RAT Protein LOC499770 OS=Rattus norvegicus GN=LOC499770 PE=1 SV=1	tr|A0A0G2QC59|A0A0G2QC59_RAT	0.00007
tr|A0A0H2UHM0|A0A0H2UHM0_RAT Vacuolar protein sorting 28 (Yeast) (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Vps28 PE=1 SV=1	tr|A0A0H2UHM0|A0A0H2UHM0_RAT	0.00007
tr|A0A0U1RRW3|A0A0U1RRW3_RAT Protein Rps19bp1 OS=Rattus norvegicus GN=Rps19bp1 PE=4 SV=1	tr|A0A0U1RRW3|A0A0U1RRW3_RAT	0.000035
tr|B0BMU0|B0BMU0_RAT Peptidyl-prolyl cis-trans isomerase E OS=Rattus norvegicus GN=Ppie PE=1 SV=1	tr|B0BMU0|B0BMU0_RAT	0.000035
tr|B2GV96|B2GV96_RAT Coiled-coil domain containing 115 OS=Rattus norvegicus GN=Ccdc115 PE=1 SV=1	tr|B2GV96|B2GV96_RAT	0
tr|B2RYP3|B2RYP3_RAT Fam91a1 protein OS=Rattus norvegicus GN=Fam91a1 PE=1 SV=1	tr|B2RYP3|B2RYP3_RAT	0.000035
tr|B2RYT0|B2RYT0_RAT Mitochondrial ribosomal protein S21 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrps21 PE=2 SV=1	tr|B2RYT0|B2RYT0_RAT (+1)	0.000035
tr|B2RYT4|B2RYT4_RAT Mitochondrial ribosomal protein S14 OS=Rattus norvegicus GN=Mrps14 PE=1 SV=1	tr|B2RYT4|B2RYT4_RAT	0.00007
tr|B3DMA5|B3DMA5_RAT CCR4-NOT transcription complex, subunit 7 OS=Rattus norvegicus GN=Cnot7 PE=1 SV=1	tr|B3DMA5|B3DMA5_RAT	0.000035
tr|B5DFI3|B5DFI3_RAT Adaptor protein complex AP-1, sigma 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ap1s1 PE=1 SV=1	tr|B5DFI3|B5DFI3_RAT	0.000035
tr|D3ZCG9|D3ZCG9_RAT Integrin alpha 3 variant A OS=Rattus norvegicus GN=Itga3 PE=2 SV=1	tr|D3ZCG9|D3ZCG9_RAT (+1)	0.00007
tr|D3ZCZ9|D3ZCZ9_RAT NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial OS=Rattus norvegicus GN=LOC100912599 PE=1 SV=1	tr|D3ZCZ9|D3ZCZ9_RAT	0.000035
tr|D3ZGQ8|D3ZGQ8_RAT Protein Rsf1 OS=Rattus norvegicus GN=Rsf1 PE=1 SV=2	tr|D3ZGQ8|D3ZGQ8_RAT	0.000035
tr|D3ZHU8|D3ZHU8_RAT Protein Rbm19 OS=Rattus norvegicus GN=Rbm19 PE=1 SV=3	tr|D3ZHU8|D3ZHU8_RAT	0.00007
tr|D3ZL85|D3ZL85_RAT Protein Hccs OS=Rattus norvegicus GN=Hccs PE=1 SV=1	tr|D3ZL85|D3ZL85_RAT	0.000035
tr|D3ZMW3|D3ZMW3_RAT Misato homolog 1 (Drosophila) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Msto1 PE=1 SV=1	tr|D3ZMW3|D3ZMW3_RAT	0.00007
tr|D3ZQE8|D3ZQE8_RAT Protein Xpo5 OS=Rattus norvegicus GN=Xpo5 PE=1 SV=1	tr|D3ZQE8|D3ZQE8_RAT	0.00007
tr|D3ZTN1|D3ZTN1_RAT Protein Tesc OS=Rattus norvegicus GN=Tesc PE=4 SV=1	tr|D3ZTN1|D3ZTN1_RAT	0.000035
tr|D3ZUL1|D3ZUL1_RAT Protein Ccdc124 OS=Rattus norvegicus GN=Ccdc124 PE=1 SV=1	tr|D3ZUL1|D3ZUL1_RAT	0.00007
tr|D3ZVI9|D3ZVI9_RAT Parkinson disease 7 domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=LOC100911365 PE=1 SV=1	tr|D3ZVI9|D3ZVI9_RAT	0.00007
tr|D3ZVR0|D3ZVR0_RAT Protein Tubgcp4 OS=Rattus norvegicus GN=Tubgcp4 PE=1 SV=3	tr|D3ZVR0|D3ZVR0_RAT	0.00007
tr|D3ZW15|D3ZW15_RAT Protein Sec24b OS=Rattus norvegicus GN=Sec24b PE=1 SV=1	tr|D3ZW15|D3ZW15_RAT	0.00007
tr|D3ZWE1|D3ZWE1_RAT Protein Asphd1 OS=Rattus norvegicus GN=Asphd1 PE=4 SV=2	tr|D3ZWE1|D3ZWE1_RAT	0.000035
tr|D3ZWN1|D3ZWN1_RAT Protein Zfp259 OS=Rattus norvegicus GN=Zfp259 PE=1 SV=1	tr|D3ZWN1|D3ZWN1_RAT	0.000035
tr|D3ZXJ5|D3ZXJ5_RAT Protein Eftud1 OS=Rattus norvegicus GN=Eftud1 PE=1 SV=2	tr|D3ZXJ5|D3ZXJ5_RAT	0.00007
tr|D3ZY44|D3ZY44_RAT Protein Mrps2 OS=Rattus norvegicus GN=Mrps2 PE=1 SV=1	tr|D3ZY44|D3ZY44_RAT	0.000035
tr|D3ZYK9|D3ZYK9_RAT Protein Npm3 OS=Rattus norvegicus GN=Npm3 PE=1 SV=1	tr|D3ZYK9|D3ZYK9_RAT	0.000035
tr|D3ZYM7|D3ZYM7_RAT Protein LOC102550385 OS=Rattus norvegicus GN=LOC102550385 PE=1 SV=1	tr|D3ZYM7|D3ZYM7_RAT	0.00007
tr|D4A1T7|D4A1T7_RAT Protein Fam173a OS=Rattus norvegicus GN=Fam173a PE=1 SV=1	tr|D4A1T7|D4A1T7_RAT	0.000035
tr|D4A234|D4A234_RAT Protein Uri1 OS=Rattus norvegicus GN=Uri1 PE=1 SV=1	tr|D4A234|D4A234_RAT	0.00007
tr|D4A401|D4A401_RAT Protein Tex10 OS=Rattus norvegicus GN=Tex10 PE=1 SV=2	tr|D4A401|D4A401_RAT	0.00007
tr|D4A4W7|D4A4W7_RAT Protein Mgarp OS=Rattus norvegicus GN=Mgarp PE=1 SV=1	tr|D4A4W7|D4A4W7_RAT	0.00007
tr|D4A830|D4A830_RAT Protein Ppa2 OS=Rattus norvegicus GN=Ppa2 PE=1 SV=2	tr|D4A830|D4A830_RAT	0.000035
tr|D4AB70|D4AB70_RAT alpha-1,2-Mannosidase OS=Rattus norvegicus GN=Edem3 PE=1 SV=3	tr|D4AB70|D4AB70_RAT	0.00007
tr|D4ADT3|D4ADT3_RAT Protein Wapl OS=Rattus norvegicus GN=Wapl PE=1 SV=2	tr|D4ADT3|D4ADT3_RAT	0.000035
tr|E9PSL1|E9PSL1_RAT Protein Spag5 OS=Rattus norvegicus GN=Spag5 PE=4 SV=2	tr|E9PSL1|E9PSL1_RAT	0.000035
tr|E9PSW6|E9PSW6_RAT Protein Lrch4 OS=Rattus norvegicus GN=Lrch4 PE=1 SV=1	tr|E9PSW6|E9PSW6_RAT	0.000035
tr|E9PSY8|E9PSY8_RAT Protein Eps15 OS=Rattus norvegicus GN=Eps15 PE=1 SV=2	tr|E9PSY8|E9PSY8_RAT	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|E9PT22|E9PT22_RAT Protein Inf2 OS=Rattus norvegicus GN=Inf2 PE=1 SV=3	tr|E9PT22|E9PT22_RAT	0.000035
tr|F1LWZ8|F1LWZ8_RAT Protein Lemd3 OS=Rattus norvegicus GN=Lemd3 PE=1 SV=2	tr|F1LWZ8|F1LWZ8_RAT	0.00007
tr|F1LXS6|F1LXS6_RAT Protein Thoc7 OS=Rattus norvegicus GN=Thoc7 PE=1 SV=2	tr|F1LXS6|F1LXS6_RAT	0.00007
tr|F1M1H0|F1M1H0_RAT Protein Dera OS=Rattus norvegicus GN=Dera PE=1 SV=3	tr|F1M1H0|F1M1H0_RAT	0.000035
tr|F1M3B3|F1M3B3_RAT Protein Phip OS=Rattus norvegicus GN=Phip PE=1 SV=2	tr|F1M3B3|F1M3B3_RAT	0.00007
tr|F1M8E7|F1M8E7_RAT Protein Ptpn18 OS=Rattus norvegicus GN=Ptpn18 PE=1 SV=3	tr|F1M8E7|F1M8E7_RAT	0.000035
tr|F1M9V7|F1M9V7_RAT Protein Npepps OS=Rattus norvegicus GN=Npepps PE=1 SV=1	tr|F1M9V7|F1M9V7_RAT	0.000035
tr|F7FFR1|F7FFR1_RAT Protein Rars2 OS=Rattus norvegicus GN=Rars2 PE=1 SV=1	tr|F7FFR1|F7FFR1_RAT	0.00007
tr|G3V6C3|G3V6C3_RAT Protein Pbdc1 OS=Rattus norvegicus GN=Pbdc1 PE=1 SV=1	tr|G3V6C3|G3V6C3_RAT	0.000035
tr|G3V727|G3V727_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 47, isoform CRA_a OS=Rattus norvegicus GN=Ddx47 PE=1 SV=1	tr|G3V727|G3V727_RAT	0.00007
tr|G3V953|G3V953_RAT Protein Rbbp6 OS=Rattus norvegicus GN=Rbbp6 PE=1 SV=1	tr|G3V953|G3V953_RAT	0.000035
tr|M0R565|M0R565_RAT Protein Wdr82 OS=Rattus norvegicus GN=Wdr82 PE=1 SV=2	tr|M0R565|M0R565_RAT	0.000035
tr|M0R623|M0R623_RAT Nucleolar GTP-binding protein 1 OS=Rattus norvegicus GN=Gtpbp4 PE=1 SV=1	tr|M0R623|M0R623_RAT	0.00007
tr|M0RCA3|M0RCA3_RAT Protein Zfpl1 OS=Rattus norvegicus GN=Zfpl1 PE=1 SV=1	tr|M0RCA3|M0RCA3_RAT	0.000035
tr|O88550|O88550_RAT Caspase 7 OS=Rattus norvegicus GN=Casp7 PE=1 SV=1	tr|O88550|O88550_RAT	0.000035
tr|Q5M949|Q5M949_RAT Nipsnap homolog 3A (C. elegans) OS=Rattus norvegicus GN=Nipsnap3b PE=1 SV=1	tr|Q5M949|Q5M949_RAT	0.000035
tr|Q5M9F3|Q5M9F3_RAT Protein Rrp1 OS=Rattus norvegicus GN=Rrp1 PE=1 SV=1	tr|Q5M9F3|Q5M9F3_RAT	0.000035
tr|Q5U1W8|Q5U1W8_RAT High-mobility group nucleosome binding domain 1 OS=Rattus norvegicus GN=LOC100911295 PE=1 SV=1	tr|Q5U1W8|Q5U1W8_RAT	0.00007
tr|Q66H09|Q66H09_RAT Protein Ttc1 OS=Rattus norvegicus GN=Ttc1 PE=1 SV=1	tr|Q66H09|Q66H09_RAT	0.000035
tr|Q8CIR5|Q8CIR5_RAT Menage a trois 1 OS=Rattus norvegicus GN=Mnat1 PE=1 SV=1	tr|Q8CIR5|Q8CIR5_RAT	0.000035
tr|Q8R2E7|Q8R2E7_RAT FADD/MORT1 protein with death effector domain OS=Rattus norvegicus GN=Fadd PE=1 SV=1	tr|Q8R2E7|Q8R2E7_RAT	0
sp|Q5XHY7|STAM2_RAT Signal transducing adapter molecule 2 OS=Rattus norvegicus GN=Stam2 PE=2 SV=1	sp|Q5XHY7|STAM2_RAT	0.000035
tr|B0BN30|B0BN30_RAT Mtch1 protein OS=Rattus norvegicus GN=Mtch1 PE=1 SV=1	tr|B0BN30|B0BN30_RAT	0.00007
sp|P54645|AAPK1_RAT 5'-AMP-activated protein kinase catalytic subunit alpha-1 OS=Rattus norvegicus GN=Prkaa1 PE=1 SV=2	sp|P54645|AAPK1_RAT	0.000035
tr|A0A096MIV5|A0A096MIV5_RAT Protein Abcf2 OS=Rattus norvegicus GN=Abcf2 PE=1 SV=1	tr|A0A096MIV5|A0A096MIV5_RAT (+1)	0.000035
sp|Q66HA5-2|C2D1A_RAT Isoform 2 of Coiled-coil and C2 domain-containing protein 1A OS=Rattus norvegicus GN=Cc2d1a	sp|Q66HA5-2|C2D1A_RAT (+1)	0.00007
tr|D3ZDR2|D3ZDR2_RAT Chromatin modifying protein 6 (Predicted) OS=Rattus norvegicus GN=Chmp6 PE=1 SV=1	tr|D3ZDR2|D3ZDR2_RAT	0.00007
tr|D4A857|D4A857_RAT Importin 9 (Predicted) OS=Rattus norvegicus GN=Ipo9 PE=1 SV=2	tr|D4A857|D4A857_RAT	0.000035
tr|Q56R17|Q56R17_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna4 PE=1 SV=1	tr|Q56R17|Q56R17_RAT	0.000035
tr|G3V8U4|G3V8U4_RAT Sorting nexin family member 27, isoform CRA_b OS=Rattus norvegicus GN=Snx27 PE=1 SV=3	tr|G3V8U4|G3V8U4_RAT (+1)	0.000035
tr|F1LXF1|F1LXF1_RAT Protein Bcr OS=Rattus norvegicus GN=Bcr PE=1 SV=3	tr|F1LXF1|F1LXF1_RAT	0.00007
tr|A0A0G2JZF0|A0A0G2JZF0_RAT Protein Sec24c OS=Rattus norvegicus GN=Sec24c PE=1 SV=1	tr|A0A0G2JZF0|A0A0G2JZF0_RAT (+1)	0.00007
sp|Q5PPN7|CCD51_RAT Coiled-coil domain-containing protein 51 OS=Rattus norvegicus GN=Ccdc51 PE=2 SV=2	sp|Q5PPN7|CCD51_RAT (+2)	0.000035
sp|P56603|SCAM1_RAT Secretory carrier-associated membrane protein 1 OS=Rattus norvegicus GN=Scamp1 PE=1 SV=1	sp|P56603|SCAM1_RAT (+2)	0.000035
tr|D3ZTB5|D3ZTB5_RAT Protein S100a13 OS=Rattus norvegicus GN=S100a13 PE=1 SV=2	tr|D3ZTB5|D3ZTB5_RAT	0.000035
tr|D4ADD7|D4ADD7_RAT Glutaredoxin 5 homolog (S. cerevisiae) (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Glrx5 PE=1 SV=1	tr|D4ADD7|D4ADD7_RAT	0
tr|Q4V8B4|Q4V8B4_RAT Chromatin assembly factor 1, subunit B (P60) OS=Rattus norvegicus GN=Chaf1b PE=1 SV=1	tr|Q4V8B4|Q4V8B4_RAT	0.00007
tr|A0A0G2JY22|A0A0G2JY22_RAT Protein Dip2b OS=Rattus norvegicus GN=Dip2b PE=1 SV=1	tr|A0A0G2JY22|A0A0G2JY22_RAT	0.000035
tr|F1MAD9|F1MAD9_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc4 PE=1 SV=1	tr|F1MAD9|F1MAD9_RAT	0.0001
sp|Q99N37-2|RHG17_RAT Isoform 2 of Rho GTPase-activating protein 17 OS=Rattus norvegicus GN=Arhgap17	sp|Q99N37-2|RHG17_RAT (+6)	0.000035
tr|F1LX68|F1LX68_RAT Protein Spats2 OS=Rattus norvegicus GN=Spats2 PE=1 SV=2	tr|F1LX68|F1LX68_RAT	0.000035
sp|P28077|PSB9_RAT Proteasome subunit beta type-9 OS=Rattus norvegicus GN=Psmb9 PE=1 SV=2	sp|P28077|PSB9_RAT (+1)	0.00007
sp|P21707|SYT1_RAT Synaptotagmin-1 OS=Rattus norvegicus GN=Syt1 PE=1 SV=3	sp|P21707|SYT1_RAT	0.000035
sp|Q62806|ZN148_RAT Zinc finger protein 148 OS=Rattus norvegicus GN=Znf148 PE=1 SV=1	sp|Q62806|ZN148_RAT	0.00007
tr|B0K014|B0K014_RAT D-tyrosyl-tRNA(Tyr) deacylase OS=Rattus norvegicus GN=Dtd1 PE=1 SV=1	tr|B0K014|B0K014_RAT	0.00007
tr|D3ZHW0|D3ZHW0_RAT Protein Dhx29 OS=Rattus norvegicus GN=Dhx29 PE=1 SV=2	tr|D3ZHW0|D3ZHW0_RAT	0.000035
tr|D3ZN63|D3ZN63_RAT Protein Wdhd1 OS=Rattus norvegicus GN=Wdhd1 PE=4 SV=1	tr|D3ZN63|D3ZN63_RAT	0.00007
tr|D4A2C6|D4A2C6_RAT LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Lsm4 PE=1 SV=1	tr|D4A2C6|D4A2C6_RAT	0.00007
tr|D4ACQ9|D4ACQ9_RAT GA repeat binding protein, alpha (Predicted) OS=Rattus norvegicus GN=Gabpa PE=1 SV=1	tr|D4ACQ9|D4ACQ9_RAT	0.00007
tr|Q4KLH7|Q4KLH7_RAT Protein Rad21 OS=Rattus norvegicus GN=Rad21 PE=1 SV=1	tr|Q4KLH7|Q4KLH7_RAT	0.00007
sp|Q5FVR4|ERI1_RAT 3'-5' exoribonuclease 1 OS=Rattus norvegicus GN=Eri1 PE=2 SV=1	sp|Q5FVR4|ERI1_RAT	0.000035
sp|Q6P6Q9|MICU1_RAT Calcium uptake protein 1, mitochondrial OS=Rattus norvegicus GN=Micu1 PE=2 SV=1	sp|Q6P6Q9|MICU1_RAT (+2)	0.000035
tr|B0BNM4|B0BNM4_RAT Protein RGD1308134 OS=Rattus norvegicus GN=RGD1308134 PE=1 SV=1	tr|B0BNM4|B0BNM4_RAT	0.000035
sp|Q5XI01|LARP7_RAT La-related protein 7 OS=Rattus norvegicus GN=Larp7 PE=1 SV=2	sp|Q5XI01|LARP7_RAT (+1)	0.00007
tr|D3ZU54|D3ZU54_RAT Density-regulated protein OS=Rattus norvegicus GN=Denr PE=1 SV=3	tr|D3ZU54|D3ZU54_RAT	0.000035
sp|Q9QZK8|DNS2A_RAT Deoxyribonuclease-2-alpha OS=Rattus norvegicus GN=Dnase2 PE=2 SV=1	sp|Q9QZK8|DNS2A_RAT	0.000035
tr|A0A0G2K4Y6|A0A0G2K4Y6_RAT Protein Haus6 OS=Rattus norvegicus GN=Haus6 PE=1 SV=1	tr|A0A0G2K4Y6|A0A0G2K4Y6_RAT	0.00007
tr|A0A0G2K8Q7|A0A0G2K8Q7_RAT Protein Lsm2 OS=Rattus norvegicus GN=Lsm2 PE=1 SV=1	tr|A0A0G2K8Q7|A0A0G2K8Q7_RAT (+1)	0.000035
sp|Q5EGY4|YKT6_RAT Synaptobrevin homolog YKT6 OS=Rattus norvegicus GN=Ykt6 PE=1 SV=1	sp|Q5EGY4|YKT6_RAT	0.0001
tr|D4A7H9|D4A7H9_RAT CHMP family, member 7 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Chmp7 PE=1 SV=1	tr|D4A7H9|D4A7H9_RAT	0.000035
sp|Q9Z1N4|BPNT1_RAT 3'(2'),5'-bisphosphate nucleotidase 1 OS=Rattus norvegicus GN=Bpnt1 PE=1 SV=1	sp|Q9Z1N4|BPNT1_RAT (+1)	0.000035
sp|Q9WV63-2|KIF2A_RAT Isoform 2 of Kinesin-like protein KIF2A OS=Rattus norvegicus GN=Kif2a	sp|Q9WV63-2|KIF2A_RAT (+1)	0.00007
tr|D3ZNH2|D3ZNH2_RAT Protein Utp18 OS=Rattus norvegicus GN=Utp18 PE=1 SV=3	tr|D3ZNH2|D3ZNH2_RAT	0.00007
tr|D3ZWL6|D3ZWL6_RAT Adenosylhomocysteinase OS=Rattus norvegicus GN=Ahcyl2 PE=1 SV=3	tr|D3ZWL6|D3ZWL6_RAT	0.000035
tr|A0A0G2JVL8|A0A0G2JVL8_RAT Protein Iars OS=Rattus norvegicus GN=Iars PE=1 SV=1	tr|A0A0G2JVL8|A0A0G2JVL8_RAT (+1)	0.00007
sp|O54772|SMRD2_RAT SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 2 OS=Rattus norvegicus GN=Smarcd	sp|O54772|SMRD2_RAT	0.0001
tr|F1M4W7|F1M4W7_RAT Protein Cstf3 OS=Rattus norvegicus GN=Cstf3 PE=1 SV=3	tr|F1M4W7|F1M4W7_RAT	0.000035
tr|B2RZ12|B2RZ12_RAT IMP3, U3 small nucleolar ribonucleoprotein, homolog (Yeast) OS=Rattus norvegicus GN=Imp3 PE=1 SV=1	tr|B2RZ12|B2RZ12_RAT	0.000035

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|D3ZJB8|D3ZJB8_RAT Ariadne homolog 2 (Drosophila) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Arih2 PE=1 SV=1	tr|D3ZJB8|D3ZJB8_RAT	0.000035
tr|A5HKJ3|A5HKJ3_RAT Proteasome maturation protein OS=Rattus norvegicus GN=Pomp PE=1 SV=1	tr|A5HKJ3|A5HKJ3_RAT	0.000035
tr|Q32Q54|Q32Q54_RAT Protein Uqcc1 OS=Rattus norvegicus GN=Uqcc1 PE=1 SV=1	tr|Q32Q54|Q32Q54_RAT	0.000035
sp|Q6VEU1|NOB1_RAT RNA-binding protein NOB1 OS=Rattus norvegicus GN=Nob1 PE=2 SV=1	sp|Q6VEU1|NOB1_RAT	0.00007
tr|G3V7K5|G3V7K5_RAT Protein Npc1 OS=Rattus norvegicus GN=Npc1 PE=1 SV=1	tr|G3V7K5|G3V7K5_RAT	0.0001
sp|Q6AXQ9|IFT46_RAT Intraflagellar transport protein 46 homolog OS=Rattus norvegicus GN=Ift46 PE=1 SV=2	sp|Q6AXQ9|IFT46_RAT	0.000035
sp|P52632|STA5B_RAT Signal transducer and activator of transcription 5B OS=Rattus norvegicus GN=Stat5b PE=1 SV=1	sp|P52632|STA5B_RAT (+2)	0.00007
sp|P54287|CACB3_RAT Voltage-dependent L-type calcium channel subunit beta-3 OS=Rattus norvegicus GN=Cacnb3 PE=1 SV=1	sp|P54287|CACB3_RAT	0.000035
tr|A0A0G2K012|A0A0G2K012_RAT Protein Ubxn6 OS=Rattus norvegicus GN=Ubxn6 PE=1 SV=1	tr|A0A0G2K012|A0A0G2K012_RAT (+1)	0.00007
tr|A0A0G2K8Q8|A0A0G2K8Q8_RAT Protein Uqcr10 OS=Rattus norvegicus GN=Uqcr10 PE=1 SV=1	tr|A0A0G2K8Q8|A0A0G2K8Q8_RAT	0.00007
tr|D3ZSA9|D3ZSA9_RAT Protein Nomo1 OS=Rattus norvegicus GN=Nomo1 PE=1 SV=1	tr|D3ZSA9|D3ZSA9_RAT	0.00007
tr|D3ZT51|D3ZT51_RAT Protein Exosc3 OS=Rattus norvegicus GN=Exosc3 PE=1 SV=2	tr|D3ZT51|D3ZT51_RAT	0.000035
tr|D3ZY46|D3ZY46_RAT Engulfment and cell motility 1, ced-12 homolog (C. elegans) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Elmo1 PE=1 SV=1	tr|D3ZY46|D3ZY46_RAT (+1)	0.000035
tr|Q0ZFS4|Q0ZFS4_RAT Mitochondrial ribosomal protein S33 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrps33 PE=1 SV=1	tr|Q0ZFS4|Q0ZFS4_RAT	0.00007
tr|A0A0G2K1E5|A0A0G2K1E5_RAT Protein Sympk OS=Rattus norvegicus GN=Sympk PE=1 SV=1	tr|A0A0G2K1E5|A0A0G2K1E5_RAT (+1)	0.00007
tr|D4A7X1|D4A7X1_RAT Protein Mrps16 OS=Rattus norvegicus GN=Mrps16 PE=1 SV=1	tr|D4A7X1|D4A7X1_RAT	0.000035
sp|P97834|CSN1_RAT COP9 signalosome complex subunit 1 OS=Rattus norvegicus GN=Gps1 PE=1 SV=1	sp|P97834|CSN1_RAT (+2)	0.00007
sp|O70436|SMAD2_RAT Mothers against decapentaplegic homolog 2 OS=Rattus norvegicus GN=Smad2 PE=1 SV=1	sp|O70436|SMAD2_RAT	0.00007
tr|B5DEG7|B5DEG7_RAT Protein Champ1 OS=Rattus norvegicus GN=Champ1 PE=1 SV=1	tr|B5DEG7|B5DEG7_RAT	0.00007
sp|P12749|RL26_RAT 60S ribosomal protein L26 OS=Rattus norvegicus GN=Rpl26 PE=1 SV=1	sp|P12749|RL26_RAT (+2)	0.000035
tr|Q5XHY0|Q5XHY0_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 OS=Rattus norvegicus GN=Ddx18 PE=1 SV=1	tr|Q5XHY0|Q5XHY0_RAT	0.000035
sp|P97710|SHPS1_RAT Tyrosine-protein phosphatase non-receptor type substrate 1 OS=Rattus norvegicus GN=Sirpa PE=1 SV=1	sp|P97710|SHPS1_RAT (+1)	0.000035
sp|P0C606|SGF29_RAT SAGA-associated factor 29 OS=Rattus norvegicus GN=Sgf29 PE=1 SV=1	sp|P0C606|SGF29_RAT (+1)	0.000035
tr|Q5FVC4|Q5FVC4_RAT DnaJ (Hsp40) homolog, subfamily B, member 12 OS=Rattus norvegicus GN=Dnajb12 PE=1 SV=1	tr|Q5FVC4|Q5FVC4_RAT	0.00007
tr|A0A0G2K6N9|A0A0G2K6N9_RAT COMM domain containing 4 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Commd4 PE=1 SV=1	tr|A0A0G2K6N9|A0A0G2K6N9_RAT (+1)	0.000035
sp|O08679|MARK2_RAT Serine/threonine-protein kinase MARK2 OS=Rattus norvegicus GN=Mark2 PE=1 SV=1	sp|O08679|MARK2_RAT (+1)	0.000035
tr|Q66H48|Q66H48_RAT Protein Zfp219 OS=Rattus norvegicus GN=Zfp219 PE=1 SV=1	tr|Q66H48|Q66H48_RAT	0.00007
sp|B2RZ37|REEP5_RAT Receptor expression-enhancing protein 5 OS=Rattus norvegicus GN=Reep5 PE=1 SV=1	sp|B2RZ37|REEP5_RAT	0.000035
sp|P15146-2|MTAP2_RAT Isoform 2 of Microtubule-associated protein 2 OS=Rattus norvegicus GN=Map2	sp|P15146-2|MTAP2_RAT (+4)	0.000035
sp|P21818|STMN2_RAT Stathmin-2 OS=Rattus norvegicus GN=Stmn2 PE=1 SV=2	sp|P21818|STMN2_RAT	0.00007
sp|P11250|RL34_RAT 60S ribosomal protein L34 OS=Rattus norvegicus GN=Rpl34 PE=1 SV=3	sp|P11250|RL34_RAT (+3)	0.000035
tr|A0A0G2K5X3|A0A0G2K5X3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K5X3|A0A0G2K5X3_RAT (+1)	0
tr|D3ZWJ9|D3ZWJ9_RAT Protein Fam234b OS=Rattus norvegicus GN=Fam234b PE=1 SV=1	tr|D3ZWJ9|D3ZWJ9_RAT	0.00007
tr|Q568Y6|Q568Y6_RAT DNA methyltransferase 1-associated protein 1 OS=Rattus norvegicus GN=Dmap1 PE=1 SV=1	tr|Q568Y6|Q568Y6_RAT	0.000035
sp|Q5M834|DTBP1_RAT Dysbindin OS=Rattus norvegicus GN=Dtnbp1 PE=1 SV=1	sp|Q5M834|DTBP1_RAT (+1)	0.00007
tr|Q5U3Z5|Q5U3Z5_RAT Bri3 binding protein OS=Rattus norvegicus GN=Bri3bp PE=1 SV=1	tr|Q5U3Z5|Q5U3Z5_RAT	0.00007
sp|B0BN85|SGT1_RAT Protein SGT1 homolog OS=Rattus norvegicus GN=Sugt1 PE=2 SV=1	sp|B0BN85|SGT1_RAT	0.000035
tr|D4A0A1|D4A0A1_RAT Protein Soga3 OS=Rattus norvegicus GN=Soga3 PE=1 SV=1	tr|D4A0A1|D4A0A1_RAT	0.00007
sp|P18163|ACSL1_RAT Long-chain-fatty-acid--CoA ligase 1 OS=Rattus norvegicus GN=Acsl1 PE=1 SV=1	sp|P18163|ACSL1_RAT	0.000035
Cluster of tr|F1M2K6|F1M2K6_RAT Protein Pkp4 OS=Rattus norvegicus GN=Pkp4 PE=1 SV=2 (tr|F1M2K6|F1M2K6_RAT)	tr|F1M2K6|F1M2K6_RAT	0.000035
tr|F1M2K6|F1M2K6_RAT Protein Pkp4 OS=Rattus norvegicus GN=Pkp4 PE=1 SV=2	tr|F1M2K6|F1M2K6_RAT	0.000035
sp|P61459|PHS_RAT Pterin-4-alpha-carbinolamine dehydratase OS=Rattus norvegicus GN=Pcbd1 PE=1 SV=2	sp|P61459|PHS_RAT	0
tr|A0A0G2K7W5|A0A0G2K7W5_RAT Protein Ahsa2 OS=Rattus norvegicus GN=Ahsa2 PE=1 SV=1	tr|A0A0G2K7W5|A0A0G2K7W5_RAT	0
sp|Q5XIB4|UFSP2_RAT Ufm1-specific protease 2 OS=Rattus norvegicus GN=Ufsp2 PE=2 SV=1	sp|Q5XIB4|UFSP2_RAT	0
sp|B0K035|MTFR2_RAT Mitochondrial fission regulator 2 OS=Rattus norvegicus GN=Mtfr2 PE=2 SV=1	sp|B0K035|MTFR2_RAT (+1)	0
sp|O08836|IGBP1_RAT Immunoglobulin-binding protein 1 OS=Rattus norvegicus GN=Igbp1 PE=2 SV=2	sp|O08836|IGBP1_RAT	0
sp|P04906|GSTP1_RAT Glutathione S-transferase P OS=Rattus norvegicus GN=Gstp1 PE=1 SV=2	sp|P04906|GSTP1_RAT	0.00007
sp|P35433|PUR1_RAT Amidophosphoribosyltransferase OS=Rattus norvegicus GN=Ppat PE=1 SV=1	sp|P35433|PUR1_RAT	0.00007
sp|P62882|GBB5_RAT Guanine nucleotide-binding protein subunit beta-5 OS=Rattus norvegicus GN=Gnb5 PE=2 SV=1	sp|P62882|GBB5_RAT (+2)	0.00007
sp|Q1HAQ0|PCAT1_RAT Lysophosphatidylcholine acyltransferase 1 OS=Rattus norvegicus GN=Lpcat1 PE=2 SV=2	sp|Q1HAQ0|PCAT1_RAT	0
sp|Q56A20|P3IP1_RAT Phosphoinositide-3-kinase-interacting protein 1 OS=Rattus norvegicus GN=Pik3ip1 PE=2 SV=1	sp|Q56A20|P3IP1_RAT (+2)	0
sp|Q5FVC2|ARHG2_RAT Rho guanine nucleotide exchange factor 2 OS=Rattus norvegicus GN=Arhgef2 PE=1 SV=1	sp|Q5FVC2|ARHG2_RAT (+1)	0.00007
sp|Q62639|RHEB_RAT GTP-binding protein Rheb OS=Rattus norvegicus GN=Rheb PE=1 SV=1	sp|Q62639|RHEB_RAT	0
sp|Q62655-2|ITF2_RAT Isoform 2 of Transcription factor 4 OS=Rattus norvegicus GN=Tcf4	sp|Q62655-2|ITF2_RAT (+4)	0
sp|Q6JE36|NDRG1_RAT Protein NDRG1 OS=Rattus norvegicus GN=Ndrg1 PE=1 SV=1	sp|Q6JE36|NDRG1_RAT	0
sp|Q8K3Y6|ZCCHV_RAT Zinc finger CCCH-type antiviral protein 1 OS=Rattus norvegicus GN=Zc3hav1 PE=1 SV=1	sp|Q8K3Y6|ZCCHV_RAT (+1)	0.00007
sp|Q8VHK7|HDGF_RAT Hepatoma-derived growth factor OS=Rattus norvegicus GN=Hdgf PE=1 SV=2	sp|Q8VHK7|HDGF_RAT	0.000035
sp|Q99MB4|CBWD1_RAT COBW domain-containing protein 1 OS=Rattus norvegicus GN=Cbwd1 PE=2 SV=2	sp|Q99MB4|CBWD1_RAT	0
sp|Q9QYL8|LYPA2_RAT Acyl-protein thioesterase 2 OS=Rattus norvegicus GN=Lypla2 PE=1 SV=1	sp|Q9QYL8|LYPA2_RAT	0
sp|Q9QYU1|PEX19_RAT Peroxisomal biogenesis factor 19 OS=Rattus norvegicus GN=Pex19 PE=1 SV=1	sp|Q9QYU1|PEX19_RAT (+2)	0
sp|Q9QZP1|GEMI2_RAT Gem-associated protein 2 OS=Rattus norvegicus GN=Gemin2 PE=2 SV=1	sp|Q9QZP1|GEMI2_RAT	0
sp|Q9R0T3|DNJC3_RAT DnaJ homolog subfamily C member 3 OS=Rattus norvegicus GN=Dnajc3 PE=1 SV=3	sp|Q9R0T3|DNJC3_RAT	0
tr|A0A096MKE2|A0A096MKE2_RAT Protein Snx12 OS=Rattus norvegicus GN=Snx12 PE=1 SV=1	tr|A0A096MKE2|A0A096MKE2_RAT (+1)	0
tr|A0A0G2JUT1|A0A0G2JUT1_RAT Protein Cadm1 OS=Rattus norvegicus GN=Cadm1 PE=1 SV=1	tr|A0A0G2JUT1|A0A0G2JUT1_RAT (+1)	0
tr|A0A0G2JXZ3|A0A0G2JXZ3_RAT Transcriptional regulator ATRX OS=Rattus norvegicus GN=Atrx PE=1 SV=1	tr|A0A0G2JXZ3|A0A0G2JXZ3_RAT	0
tr|A0A0G2K1A0|A0A0G2K1A0_RAT Protein LOC102553099 OS=Rattus norvegicus GN=LOC102553099 PE=4 SV=1	tr|A0A0G2K1A0|A0A0G2K1A0_RAT (+3)	0
tr|A0A0G2K1Q9|A0A0G2K1Q9_RAT Erythrocyte protein band 4.1-like 3, isoform CRA_e OS=Rattus norvegicus GN=Epb41l3 PE=1 SV=1	tr|A0A0G2K1Q9|A0A0G2K1Q9_RAT (+2)	0.00007
tr|A0A0G2K466|A0A0G2K466_RAT Oxidoreductase NAD-binding domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Oxnad1 PE=1 SV=	tr|A0A0G2K466|A0A0G2K466_RAT (+1)	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|A0A0G2K7K2|A0A0G2K7K2_RAT Apoptosis-inducing factor 1, mitochondrial OS=Rattus norvegicus GN=Aifm1 PE=1 SV=1	tr|A0A0G2K7K2|A0A0G2K7K2_RAT	0
tr|A0A0G2QC22|A0A0G2QC22_RAT Protein RGD1306215 OS=Rattus norvegicus GN=RGD1306215 PE=1 SV=1	tr|A0A0G2QC22|A0A0G2QC22_RAT	0
tr|B0BNJ0|B0BNJ0_RAT Protein Sin3b OS=Rattus norvegicus GN=Sin3b PE=2 SV=1	tr|B0BNJ0|B0BNJ0_RAT	0
tr|B1WC75|B1WC75_RAT Dlgap5 protein OS=Rattus norvegicus GN=Dlgap5 PE=1 SV=1	tr|B1WC75|B1WC75_RAT	0
tr|B5DF65|B5DF65_RAT Biliverdin reductase B (Flavin reductase (NADPH)) OS=Rattus norvegicus GN=Blvrb PE=1 SV=1	tr|B5DF65|B5DF65_RAT	0
tr|D3Z937|D3Z937_RAT High mobility group 20A (Predicted) OS=Rattus norvegicus GN=Hmg20a PE=1 SV=1	tr|D3Z937|D3Z937_RAT	0
tr|D3ZER1|D3ZER1_RAT Protein Hmbox1 OS=Rattus norvegicus GN=Hmbox1 PE=4 SV=1	tr|D3ZER1|D3ZER1_RAT	0
tr|D3ZGW2|D3ZGW2_RAT Protein Ap1g2 OS=Rattus norvegicus GN=Ap1g2 PE=1 SV=1	tr|D3ZGW2|D3ZGW2_RAT	0.00007
tr|D3ZL50|D3ZL50_RAT Protein Ttc37 OS=Rattus norvegicus GN=Ttc37 PE=1 SV=3	tr|D3ZL50|D3ZL50_RAT	0.00007
tr|D3ZN27|D3ZN27_RAT Protein Dnajc13 OS=Rattus norvegicus GN=Dnajc13 PE=1 SV=2	tr|D3ZN27|D3ZN27_RAT	0.00007
tr|D3ZPN3|D3ZPN3_RAT Myeloid leukemia factor 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mlf2 PE=1 SV=1	tr|D3ZPN3|D3ZPN3_RAT	0
tr|D3ZU52|D3ZU52_RAT COP9 (Constitutive photomorphogenic) homolog, subunit 7b (Arabidopsis thaliana) (Predicted), isoform CRA_b OS=Rattus norvegicus	tr|D3ZU52|D3ZU52_RAT	0
tr|D3ZU55|D3ZU55_RAT Protein Foxk1 OS=Rattus norvegicus GN=Foxk1 PE=1 SV=2	tr|D3ZU55|D3ZU55_RAT	0
tr|D3ZUJ8|D3ZUJ8_RAT Protein Tmtc3 OS=Rattus norvegicus GN=Tmtc3 PE=1 SV=1	tr|D3ZUJ8|D3ZUJ8_RAT	0.00007
tr|D3ZW58|D3ZW58_RAT Protein Casc4 OS=Rattus norvegicus GN=Casc4 PE=4 SV=3	tr|D3ZW58|D3ZW58_RAT	0
tr|D3ZWP8|D3ZWP8_RAT Protein Lrrc58 OS=Rattus norvegicus GN=Lrrc58 PE=4 SV=3	tr|D3ZWP8|D3ZWP8_RAT	0
tr|D3ZZQ5|D3ZZQ5_RAT Protein Naa40 OS=Rattus norvegicus GN=Naa40 PE=1 SV=1	tr|D3ZZQ5|D3ZZQ5_RAT	0
tr|D3ZZY2|D3ZZY2_RAT Protein Utp14a OS=Rattus norvegicus GN=Utp14a PE=1 SV=3	tr|D3ZZY2|D3ZZY2_RAT	0.00007
tr|D4A1K4|D4A1K4_RAT Hypothetical LOC304650 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=RGD1310262 PE=1 SV=1	tr|D4A1K4|D4A1K4_RAT	0
tr|D4A3P1|D4A3P1_RAT Protein Ubqln4 OS=Rattus norvegicus GN=Ubqln4 PE=1 SV=1	tr|D4A3P1|D4A3P1_RAT	0
tr|D4A582|D4A582_RAT Protein Zdbf2 OS=Rattus norvegicus GN=Zdbf2 PE=4 SV=3	tr|D4A582|D4A582_RAT	0
tr|D4A8C8|D4A8C8_RAT Protein Paxbp1 OS=Rattus norvegicus GN=Paxbp1 PE=1 SV=1	tr|D4A8C8|D4A8C8_RAT	0
tr|D4ADF5|D4ADF5_RAT Protein LOC100912106 OS=Rattus norvegicus GN=Pdcd5 PE=1 SV=1	tr|D4ADF5|D4ADF5_RAT	0
tr|G3V7V3|G3V7V3_RAT Protein Slc27a4 OS=Rattus norvegicus GN=Slc27a4 PE=1 SV=1	tr|G3V7V3|G3V7V3_RAT	0.00007
tr|M0RE00|M0RE00_RAT RCG44419, isoform CRA_a OS=Rattus norvegicus GN=Tbca PE=1 SV=2	tr|M0RE00|M0RE00_RAT	0
tr|Q5U2Q5|Q5U2Q5_RAT Ribonucleoside-diphosphate reductase OS=Rattus norvegicus GN=Rrm1 PE=1 SV=1	tr|Q5U2Q5|Q5U2Q5_RAT	0
tr|Q68FS9|Q68FS9_RAT COMM domain containing 10 OS=Rattus norvegicus GN=Commd10 PE=1 SV=1	tr|Q68FS9|Q68FS9_RAT	0
tr|Q6MG75|Q6MG75_RAT Protein Nelfe OS=Rattus norvegicus GN=Nelfe PE=1 SV=1	tr|Q6MG75|Q6MG75_RAT	0
tr|D3ZYQ9|D3ZYQ9_RAT Protein Rnf20 OS=Rattus norvegicus GN=Rnf20 PE=1 SV=1	tr|D3ZYQ9|D3ZYQ9_RAT	0.00007
sp|P83941|ELOC_RAT Transcription elongation factor B polypeptide 1 OS=Rattus norvegicus GN=Tceb1 PE=1 SV=1	sp|P83941|ELOC_RAT (+1)	0
tr|D3Z9L0|D3Z9L0_RAT Protein Agk OS=Rattus norvegicus GN=Agk PE=1 SV=2	tr|D3Z9L0|D3Z9L0_RAT	0
tr|B4F786|B4F786_RAT CD2 antigen (Cytoplasmic tail) binding protein 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Cd2bp2 PE=1 SV=1	tr|B4F786|B4F786_RAT	0
tr|D3ZTR4|D3ZTR4_RAT Protein Sumf2 OS=Rattus norvegicus GN=Sumf2 PE=1 SV=2	tr|D3ZTR4|D3ZTR4_RAT	0
sp|P12369|KAP3_RAT cAMP-dependent protein kinase type II-beta regulatory subunit OS=Rattus norvegicus GN=Prkar2b PE=1 SV=3	sp|P12369|KAP3_RAT (+2)	0
sp|Q66H19|SRFB1_RAT Serum response factor-binding protein 1 OS=Rattus norvegicus GN=Srfbp1 PE=1 SV=1	sp|Q66H19|SRFB1_RAT	0
tr|D3ZUN5|D3ZUN5_RAT Protein O-fucosyltransferase 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Pofut2 PE=1 SV=1	tr|D3ZUN5|D3ZUN5_RAT	0
sp|A2RUW1|TOLIP_RAT Toll-interacting protein OS=Rattus norvegicus GN=Tollip PE=1 SV=1	sp|A2RUW1|TOLIP_RAT	0.00007
tr|D4A3V3|D4A3V3_RAT Poly (ADP-ribose) polymerase family, member 12 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Parp12 PE=1 SV=2	tr|D4A3V3|D4A3V3_RAT	0
sp|Q63028-2|ADDA_RAT Isoform 2 of Alpha-adducin OS=Rattus norvegicus GN=Add1	sp|Q63028-2|ADDA_RAT (+3)	0.00007
sp|Q5U2V8|EMC3_RAT ER membrane protein complex subunit 3 OS=Rattus norvegicus GN=Emc3 PE=2 SV=3	sp|Q5U2V8|EMC3_RAT	0.00007
tr|B3DM97|B3DM97_RAT Protein Slbp OS=Rattus norvegicus GN=Slbp PE=2 SV=1	tr|B3DM97|B3DM97_RAT	0
tr|D4A565|D4A565_RAT NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 5 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ndufb5 PE=1 SV=1	tr|D4A565|D4A565_RAT	0
tr|Q3B7U1|Q3B7U1_RAT Melanoma antigen, family D, 2 OS=Rattus norvegicus GN=Maged2 PE=1 SV=1	tr|Q3B7U1|Q3B7U1_RAT	0
tr|D3ZLN7|D3ZLN7_RAT COMM domain containing 2 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Commd2 PE=1 SV=1	tr|D3ZLN7|D3ZLN7_RAT	0
tr|A0A0G2K7Y7|A0A0G2K7Y7_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif23 PE=3 SV=1	tr|A0A0G2K7Y7|A0A0G2K7Y7_RAT (+1)	0.00007
tr|D4A962|D4A962_RAT Heterogeneous nuclear ribonucleoprotein U-like 1 (Predicted) OS=Rattus norvegicus GN=Hnrnpul1 PE=1 SV=1	tr|D4A962|D4A962_RAT	0.00007
sp|Q5BJQ6|CSTF1_RAT Cleavage stimulation factor subunit 1 OS=Rattus norvegicus GN=Cstf1 PE=2 SV=1	sp|Q5BJQ6|CSTF1_RAT	0.00007
tr|F1LRJ6|F1LRJ6_RAT DNA polymerase OS=Rattus norvegicus GN=Pola1 PE=1 SV=3	tr|F1LRJ6|F1LRJ6_RAT	0.00007
sp|Q5PQL7|ITM2C_RAT Integral membrane protein 2C OS=Rattus norvegicus GN=Itm2c PE=1 SV=1	sp|Q5PQL7|ITM2C_RAT	0.00007
tr|D3ZJY1|D3ZJY1_RAT Protein Mrpl28 OS=Rattus norvegicus GN=Mrpl28 PE=1 SV=1	tr|D3ZJY1|D3ZJY1_RAT	0
tr|A0A0G2K8B3|A0A0G2K8B3_RAT Protein Ppp1r18 (Fragment) OS=Rattus norvegicus GN=Ppp1r18 PE=1 SV=1	tr|A0A0G2K8B3|A0A0G2K8B3_RAT (+1)	0.00007
tr|G3V8E2|G3V8E2_RAT Protein Strip1 OS=Rattus norvegicus GN=Strip1 PE=1 SV=2	tr|G3V8E2|G3V8E2_RAT	0.00007
tr|Q06C60|Q06C60_RAT BolA-like 1 (E. coli) (Predicted) OS=Rattus norvegicus GN=Bola1 PE=1 SV=1	tr|Q06C60|Q06C60_RAT	0
tr|D3ZRN5|D3ZRN5_RAT Protein Trove2 OS=Rattus norvegicus GN=Trove2 PE=1 SV=1	tr|D3ZRN5|D3ZRN5_RAT	0.00007
sp|Q4G063|CREL2_RAT Cysteine-rich with EGF-like domain protein 2 OS=Rattus norvegicus GN=Creld2 PE=1 SV=1	sp|Q4G063|CREL2_RAT	0
sp|Q62896|BET1_RAT BET1 homolog OS=Rattus norvegicus GN=Bet1 PE=1 SV=1	sp|Q62896|BET1_RAT	0
tr|D4ABI7|D4ABI7_RAT Protein Hacd3 OS=Rattus norvegicus GN=Hacd3 PE=1 SV=2	tr|D4ABI7|D4ABI7_RAT	0.00007
sp|P18614|ITA1_RAT Integrin alpha-1 OS=Rattus norvegicus GN=Itga1 PE=1 SV=1	sp|P18614|ITA1_RAT	0.00007
tr|D3ZIM7|D3ZIM7_RAT Protein Fam177a1 OS=Rattus norvegicus GN=Fam177a1 PE=1 SV=1	tr|D3ZIM7|D3ZIM7_RAT	0
tr|Q5RK25|Q5RK25_RAT Phosphomannomutase OS=Rattus norvegicus GN=Pmm1 PE=1 SV=1	tr|Q5RK25|Q5RK25_RAT	0
sp|Q66H47|RM24_RAT 39S ribosomal protein L24, mitochondrial OS=Rattus norvegicus GN=Mrpl24 PE=2 SV=1	sp|Q66H47|RM24_RAT	0
tr|D3ZLS5|D3ZLS5_RAT Protein Hectd1 OS=Rattus norvegicus GN=Hectd1 PE=1 SV=3	tr|D3ZLS5|D3ZLS5_RAT	0.00007
sp|Q6PCT5|PQBP1_RAT Polyglutamine-binding protein 1 OS=Rattus norvegicus GN=Pqbp1 PE=2 SV=1	sp|Q6PCT5|PQBP1_RAT (+1)	0
tr|A0A0G2K3H5|A0A0G2K3H5_RAT Protein Sin3a OS=Rattus norvegicus GN=Sin3a PE=1 SV=1	tr|A0A0G2K3H5|A0A0G2K3H5_RAT (+1)	0.00007
sp|Q5PQJ7|TBCEL_RAT Tubulin-specific chaperone cofactor E-like protein OS=Rattus norvegicus GN=Tbcel PE=1 SV=1	sp|Q5PQJ7|TBCEL_RAT	0
tr|D4A9Z6|D4A9Z6_RAT Mitochondrial ribosomal protein S35 (Predicted) OS=Rattus norvegicus GN=Mrps35 PE=1 SV=1	tr|D4A9Z6|D4A9Z6_RAT	0.00007
sp|Q6P768|B4GT3_RAT Beta-1,4-galactosyltransferase 3 OS=Rattus norvegicus GN=B4galt3 PE=2 SV=1	sp|Q6P768|B4GT3_RAT	0.00007
tr|D3ZAS8|D3ZAS8_RAT Protein Sart3 OS=Rattus norvegicus GN=Sart3 PE=1 SV=1	tr|D3ZAS8|D3ZAS8_RAT	0.00007

Fig 1A supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells with reduced PLCβ1 expression

tr|Q7TQ74|Q7TQ74_RAT Ac1573 OS=Rattus norvegicus GN=Stt3b PE=1 SV=1	tr|Q7TQ74|Q7TQ74_RAT	0.00007
tr|A0A0G2JX62|A0A0G2JX62_RAT Protein Srpk2 OS=Rattus norvegicus GN=Srpk2 PE=1 SV=1	tr|A0A0G2JX62|A0A0G2JX62_RAT (+1)	0
tr|G3V813|G3V813_RAT Protein Etv3 OS=Rattus norvegicus GN=Etv3 PE=1 SV=1	tr|G3V813|G3V813_RAT	0
sp|O70199|UGDH_RAT UDP-glucose 6-dehydrogenase OS=Rattus norvegicus GN=Ugdh PE=1 SV=1	sp|O70199|UGDH_RAT (+1)	0.00007
sp|Q499N5|ACSF2_RAT Acyl-CoA synthetase family member 2, mitochondrial OS=Rattus norvegicus GN=Acsf2 PE=2 SV=1	sp|Q499N5|ACSF2_RAT	0.00007
sp|Q9Z2Y1|TIM_RAT Protein timeless homolog OS=Rattus norvegicus GN=Timeless PE=1 SV=1	sp|Q9Z2Y1|TIM_RAT (+1)	0.00007
sp|Q5BJS0|DHX30_RAT Putative ATP-dependent RNA helicase DHX30 OS=Rattus norvegicus GN=Dhx30 PE=1 SV=1	sp|Q5BJS0|DHX30_RAT (+1)	0.00007
sp|Q91Y53|TDIF1_RAT Deoxynucleotidyltransferase terminal-interacting protein 1 OS=Rattus norvegicus GN=Dnttip1 PE=2 SV=1	sp|Q91Y53|TDIF1_RAT (+2)	0
sp|P61078|UB2D3_RAT Ubiquitin-conjugating enzyme E2 D3 OS=Rattus norvegicus GN=Ube2d3 PE=2 SV=1	sp|P61078|UB2D3_RAT (+4)	0
sp|Q7TNK3|ZNF24_RAT Zinc finger protein 24 OS=Rattus norvegicus GN=Znf24 PE=2 SV=1	sp|Q7TNK3|ZNF24_RAT	0
tr|D3Z8Q7|D3Z8Q7_RAT Protein Fam96b OS=Rattus norvegicus GN=Fam96b PE=1 SV=1	tr|D3Z8Q7|D3Z8Q7_RAT	0
tr|D3ZQQ2|D3ZQQ2_RAT Protein Wiz OS=Rattus norvegicus GN=Wiz PE=1 SV=1	tr|D3ZQQ2|D3ZQQ2_RAT	0.00007
sp|Q6GMN2-2|BAIP2_RAT Isoform 2 of Brain-specific angiogenesis inhibitor 1-associated protein 2 OS=Rattus norvegicus GN=Baiap2	sp|Q6GMN2-2|BAIP2_RAT (+1)	0
sp|Q5XIT1|MARE3_RAT Microtubule-associated protein RP/EB family member 3 OS=Rattus norvegicus GN=Mapre3 PE=1 SV=1	sp|Q5XIT1|MARE3_RAT	0.0001
tr|D3Z840|D3Z840_RAT Protein Fanci OS=Rattus norvegicus GN=Fanci PE=1 SV=3	tr|D3Z840|D3Z840_RAT	0.00007
sp|P50398|GDIA_RAT Rab GDP dissociation inhibitor alpha OS=Rattus norvegicus GN=Gdi1 PE=1 SV=1	sp|P50398|GDIA_RAT	0.000035
tr|A0A0G2K3L7|A0A0G2K3L7_RAT Spermatid perinuclear RNA binding protein, isoform CRA_b OS=Rattus norvegicus GN=Strbp PE=1 SV=1	tr|A0A0G2K3L7|A0A0G2K3L7_RAT (+1)	0.000035
sp|Q5BJU7|WASF1_RAT Wiskott-Aldrich syndrome protein family member 1 OS=Rattus norvegicus GN=Wasf1 PE=1 SV=1	sp|Q5BJU7|WASF1_RAT	0.000035
tr|A0A0G2K9G6|A0A0G2K9G6_RAT Protein Stag1 OS=Rattus norvegicus GN=Stag1 PE=1 SV=1	tr|A0A0G2K9G6|A0A0G2K9G6_RAT	0.0001
tr|M0RCX0|M0RCX0_RAT Protein Pcbd2 OS=Rattus norvegicus GN=Pcbd2 PE=1 SV=1	tr|M0RCX0|M0RCX0_RAT	0
tr|A0A096MJY6|A0A096MJY6_RAT Protein Gbe1 (Fragment) OS=Rattus norvegicus GN=Gbe1 PE=1 SV=1	tr|A0A096MJY6|A0A096MJY6_RAT	0.00007
Cluster of tr|F1LPP2|F1LPP2_RAT Protein Tlk2 OS=Rattus norvegicus GN=Tlk2 PE=1 SV=1 (tr|F1LPP2|F1LPP2_RAT)	tr|F1LPP2|F1LPP2_RAT [2]	0.00007
tr|F1LPP2|F1LPP2_RAT Protein Tlk2 OS=Rattus norvegicus GN=Tlk2 PE=1 SV=1	tr|F1LPP2|F1LPP2_RAT	0.000035
sp|P47197|AKT2_RAT RAC-beta serine/threonine-protein kinase OS=Rattus norvegicus GN=Akt2 PE=1 SV=1	sp|P47197|AKT2_RAT	0.00007
sp|Q66HD3|NASP_RAT Nuclear autoantigenic sperm protein OS=Rattus norvegicus GN=Nasp PE=1 SV=1	sp|Q66HD3|NASP_RAT	0
sp|P70483|STRN_RAT Striatin OS=Rattus norvegicus GN=Strn PE=1 SV=1	sp|P70483|STRN_RAT (+1)	0.000035
tr|F1LW77|F1LW77_RAT Protein Rab33b OS=Rattus norvegicus GN=Rab33b PE=1 SV=2	tr|F1LW77|F1LW77_RAT	0.0001
Cluster of tr|B5DEJ1|B5DEJ1_RAT SLIT-ROBO Rho GTPase-activating protein 2 OS=Rattus norvegicus GN=Srgap2 PE=1 SV=1 (tr|B5DEJ1|B5DEJ1_RAT)	tr|B5DEJ1|B5DEJ1_RAT	0.00007
tr|B5DEJ1|B5DEJ1_RAT SLIT-ROBO Rho GTPase-activating protein 2 OS=Rattus norvegicus GN=Srgap2 PE=1 SV=1	tr|B5DEJ1|B5DEJ1_RAT	0.00007
tr|Q76IJ9|Q76IJ9_RAT ELAV-like protein OS=Rattus norvegicus GN=Elavl3 PE=2 SV=1	tr|Q76IJ9|Q76IJ9_RAT	0.00007
tr|A0A0G2JY73|A0A0G2JY73_RAT Protein Eif4g3 OS=Rattus norvegicus GN=Eif4g3 PE=1 SV=1	tr|A0A0G2JY73|A0A0G2JY73_RAT (+1)	0.00007
tr|D3ZXB7|D3ZXB7_RAT Keratin 71 OS=Rattus norvegicus GN=Krt71 PE=2 SV=2	tr|D3ZXB7|D3ZXB7_RAT	0.00007
tr|B2RYL8|B2RYL8_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 41 OS=Rattus norvegicus GN=Ddx41 PE=1 SV=1	tr|B2RYL8|B2RYL8_RAT	0.00007
sp|Q9Z118|PTBP3_RAT Polypyrimidine tract-binding protein 3 OS=Rattus norvegicus GN=Ptbp3 PE=2 SV=1	sp|Q9Z118|PTBP3_RAT (+1)	0.00014

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells

Identified Proteins (375)	Accession Number	% of Total Spectra
Cluster of sp|Q10758|K2C8_RAT Keratin, type II cytoskeletal 8 OS=Rattus norvegicus GN=Krt8 PE=1 SV=3 (sp|Q10758|K2C8_RAT)	sp|Q10758|K2C8_RAT [9]	0.0027
sp|Q10758|K2C8_RAT Keratin, type II cytoskeletal 8 OS=Rattus norvegicus GN=Krt8 PE=1 SV=3	sp|Q10758|K2C8_RAT	0.0012
sp|Q6IMF3|K2C1_RAT Keratin, type II cytoskeletal 1 OS=Rattus norvegicus GN=Krt1 PE=2 SV=1	sp|Q6IMF3|K2C1_RAT (+1)	0.00069
sp|Q6P6Q2|K2C5_RAT Keratin, type II cytoskeletal 5 OS=Rattus norvegicus GN=Krt5 PE=1 SV=1	sp|Q6P6Q2|K2C5_RAT	0.00078
sp|Q6IG02|K22E_RAT Keratin, type II cytoskeletal 2 epidermal OS=Rattus norvegicus GN=Krt2 PE=3 SV=1	sp|Q6IG02|K22E_RAT (+1)	0.00018
sp|Q4FZU2|K2C6A_RAT Keratin, type II cytoskeletal 6A OS=Rattus norvegicus GN=Krt6a PE=1 SV=1	sp|Q4FZU2|K2C6A_RAT	0.00055
tr|A0A0H2UHH5|A0A0H2UHH5_RAT Keratin, type II cytoskeletal 75 OS=Rattus norvegicus GN=Krt75 PE=1 SV=1	tr|A0A0H2UHH5|A0A0H2UHH5_RAT	0.0005
tr|G3V712|G3V712_RAT Keratin complex 2, basic, gene 7, isoform CRA_a OS=Rattus norvegicus GN=Krt7 PE=1 SV=1	tr|G3V712|G3V712_RAT	0.00018
tr|M0R9X8|M0R9X8_RAT Cytoplasmic dynein 1 heavy chain 1 OS=Rattus norvegicus GN=Dync1h1 PE=1 SV=2	tr|M0R9X8|M0R9X8_RAT	0.0019
Cluster of tr|A0A0G2K4Y7|A0A0G2K4Y7_RAT Unconventional myosin-Va OS=Rattus norvegicus GN=Myo5a PE=1 SV=1 (tr|A0A0G2K4Y7|A0A0G2K4Y7_RAT)	tr|A0A0G2K4Y7|A0A0G2K4Y7_RAT [2]	0.00073
tr|A0A0G2K4Y7|A0A0G2K4Y7_RAT Unconventional myosin-Va OS=Rattus norvegicus GN=Myo5a PE=1 SV=1	tr|A0A0G2K4Y7|A0A0G2K4Y7_RAT	0.00073
sp|Q9QYF3|MYO5A_RAT Unconventional myosin-Va OS=Rattus norvegicus GN=Myo5a PE=1 SV=1	sp|Q9QYF3|MYO5A_RAT	0.00064
Cluster of sp|P69897|TBB5_RAT Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1 (sp|P69897|TBB5_RAT)	sp|P69897|TBB5_RAT [3]	0.0011
sp|P69897|TBB5_RAT Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1	sp|P69897|TBB5_RAT	0.00092
tr|G3V7C6|G3V7C6_RAT Tubulin beta-4B chain OS=Rattus norvegicus GN=Tubb4b PE=1 SV=2	tr|G3V7C6|G3V7C6_RAT	0.00073
sp|P85108|TBB2A_RAT Tubulin beta-2A chain OS=Rattus norvegicus GN=Tubb2a PE=1 SV=1	sp|P85108|TBB2A_RAT	0.00078
Cluster of sp|P63018|HSP7C_RAT Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1 (sp|P63018|HSP7C_RAT)	sp|P63018|HSP7C_RAT	0.00083
sp|P63018|HSP7C_RAT Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1	sp|P63018|HSP7C_RAT	0.00083
tr|F1M779|F1M779_RAT Clathrin heavy chain OS=Rattus norvegicus GN=Cltc PE=1 SV=1	tr|F1M779|F1M779_RAT	0.0012
Cluster of sp|Q6IFW6|K1C10_RAT Keratin, type I cytoskeletal 10 OS=Rattus norvegicus GN=Krt10 PE=3 SV=1 (sp|Q6IFW6|K1C10_RAT)	sp|Q6IFW6|K1C10_RAT [5]	0.0012
sp|Q6IFW6|K1C10_RAT Keratin, type I cytoskeletal 10 OS=Rattus norvegicus GN=Krt10 PE=3 SV=1	sp|Q6IFW6|K1C10_RAT (+1)	0.00083
tr|Q6IFU9|Q6IFU9_RAT Protein Krt16 OS=Rattus norvegicus GN=Krt16 PE=1 SV=1	tr|Q6IFU9|Q6IFU9_RAT	0.00018
sp|Q6IFU7|K1C42_RAT Keratin, type I cytoskeletal 42 OS=Rattus norvegicus GN=Krt42 PE=3 SV=1	sp|Q6IFU7|K1C42_RAT	0.00032
tr|A0A0G2K9Q9|A0A0G2K9Q9_RAT Keratin, type I cytoskeletal 17 OS=Rattus norvegicus GN=Krt17 PE=1 SV=1	tr|A0A0G2K9Q9|A0A0G2K9Q9_RAT	0.00018
Cluster of sp|Q9EPH8|PABP1_RAT Polyadenylate-binding protein 1 OS=Rattus norvegicus GN=Pabpc1 PE=1 SV=1 (sp|Q9EPH8|PABP1_RAT)	sp|Q9EPH8|PABP1_RAT [2]	0.00041
sp|Q9EPH8|PABP1_RAT Polyadenylate-binding protein 1 OS=Rattus norvegicus GN=Pabpc1 PE=1 SV=1	sp|Q9EPH8|PABP1_RAT	0.00041
tr|G3V9N0|G3V9N0_RAT Polyadenylate-binding protein OS=Rattus norvegicus GN=Pabpc4 PE=1 SV=2	tr|G3V9N0|G3V9N0_RAT	0.000092
Cluster of sp|P34058|HS90B_RAT Heat shock protein HSP 90-beta OS=Rattus norvegicus GN=Hsp90ab1 PE=1 SV=4 (sp|P34058|HS90B_RAT)	sp|P34058|HS90B_RAT [2]	0.00087
sp|P34058|HS90B_RAT Heat shock protein HSP 90-beta OS=Rattus norvegicus GN=Hsp90ab1 PE=1 SV=4	sp|P34058|HS90B_RAT	0.00069
sp|P82995|HS90A_RAT Heat shock protein HSP 90-alpha OS=Rattus norvegicus GN=Hsp90aa1 PE=1 SV=3	sp|P82995|HS90A_RAT	0.0005
Cluster of sp|P30427|PLEC_RAT Plectin OS=Rattus norvegicus GN=Plec PE=1 SV=2 (sp|P30427|PLEC_RAT)	sp|P30427|PLEC_RAT [2]	0.0013
sp|P30427|PLEC_RAT Plectin OS=Rattus norvegicus GN=Plec PE=1 SV=2	sp|P30427|PLEC_RAT	0.0013
tr|Q6S3A5|Q6S3A5_RAT Plectin OS=Rattus norvegicus GN=Plec PE=1 SV=1	tr|Q6S3A5|Q6S3A5_RAT	0.0013
Cluster of sp|P68370|TBA1A_RAT Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1 (sp|P68370|TBA1A_RAT)	sp|P68370|TBA1A_RAT [4]	0.00087
sp|P68370|TBA1A_RAT Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1	sp|P68370|TBA1A_RAT	0.00069
sp|Q5XIF6|TBA4A_RAT Tubulin alpha-4A chain OS=Rattus norvegicus GN=Tuba4a PE=1 SV=1	sp|Q5XIF6|TBA4A_RAT	0.0005
sp|Q6AYZ1|TBA1C_RAT Tubulin alpha-1C chain OS=Rattus norvegicus GN=Tuba1c PE=1 SV=1	sp|Q6AYZ1|TBA1C_RAT (+1)	0.00064
Cluster of sp|P60711|ACTB_RAT Actin, cytoplasmic 1 OS=Rattus norvegicus GN=Actb PE=1 SV=1 (sp|P60711|ACTB_RAT)	sp|P60711|ACTB_RAT [5]	0.00069
sp|P60711|ACTB_RAT Actin, cytoplasmic 1 OS=Rattus norvegicus GN=Actb PE=1 SV=1	sp|P60711|ACTB_RAT (+2)	0.0006
sp|P68035|ACTC_RAT Actin, alpha cardiac muscle 1 OS=Rattus norvegicus GN=Actc1 PE=2 SV=1	sp|P68035|ACTC_RAT (+1)	0.00046
tr|A0A0G2JSH6|A0A0G2JSH6_RAT Transient receptor potential cation channel subfamily V member 2 OS=Rattus norvegicus GN=Trpv2 PE=1 SV=1	tr|A0A0G2JSH6|A0A0G2JSH6_RAT	0.00037
Cluster of tr|G3V6P7|G3V6P7_RAT Myosin, heavy polypeptide 9, non-muscle OS=Rattus norvegicus GN=Myh9 PE=1 SV=1 (tr|G3V6P7|G3V6P7_RAT)	tr|G3V6P7|G3V6P7_RAT	0.00073
tr|G3V6P7|G3V6P7_RAT Myosin, heavy polypeptide 9, non-muscle OS=Rattus norvegicus GN=Myh9 PE=1 SV=1	tr|G3V6P7|G3V6P7_RAT	0.00069
sp|P06761|GRP78_RAT 78 kDa glucose-regulated protein OS=Rattus norvegicus GN=Hspa5 PE=1 SV=1	sp|P06761|GRP78_RAT	0.00064
Cluster of sp|Q05962|ADT1_RAT ADP/ATP translocase 1 OS=Rattus norvegicus GN=Slc25a4 PE=1 SV=3 (sp|Q05962|ADT1_RAT)	sp|Q05962|ADT1_RAT [4]	0.00078
sp|Q05962|ADT1_RAT ADP/ATP translocase 1 OS=Rattus norvegicus GN=Slc25a4 PE=1 SV=3	sp|Q05962|ADT1_RAT (+1)	0.0006
sp|Q09073|ADT2_RAT ADP/ATP translocase 2 OS=Rattus norvegicus GN=Slc25a5 PE=1 SV=3	sp|Q09073|ADT2_RAT	0.00046
tr|D3ZB81|D3ZB81_RAT Protein Slc25a31 OS=Rattus norvegicus GN=Slc25a31 PE=3 SV=3	tr|D3ZB81|D3ZB81_RAT	0.00018
Cluster of sp|P62630|EF1A1_RAT Elongation factor 1-alpha 1 OS=Rattus norvegicus GN=Eef1a1 PE=2 SV=1 (sp|P62630|EF1A1_RAT)	sp|P62630|EF1A1_RAT	0.00064
sp|P62630|EF1A1_RAT Elongation factor 1-alpha 1 OS=Rattus norvegicus GN=Eef1a1 PE=2 SV=1	sp|P62630|EF1A1_RAT	0.00064
Cluster of tr|M0RBF1|M0RBF1_RAT Complement C3 OS=Rattus norvegicus GN=C3 PE=1 SV=1 (tr|M0RBF1|M0RBF1_RAT)	tr|M0RBF1|M0RBF1_RAT	0.00064
tr|M0RBF1|M0RBF1_RAT Complement C3 OS=Rattus norvegicus GN=C3 PE=1 SV=1	tr|M0RBF1|M0RBF1_RAT	0.00064
Cluster of tr|A0A0A0MXX0|A0A0A0MXX0_RAT CD2-associated protein OS=Rattus norvegicus GN=Cd2ap PE=1 SV=2 (tr|A0A0A0MXX0|A0A0A0MXX0_RAT)	tr|A0A0A0MXX0|A0A0A0MXX0_RAT	0.0012
tr|A0A0A0MXX0|A0A0A0MXX0_RAT CD2-associated protein OS=Rattus norvegicus GN=Cd2ap PE=1 SV=2	tr|A0A0A0MXX0|A0A0A0MXX0_RAT	0.0012
tr|A0A0U1RS25|A0A0U1RS25_RAT Protein Upf1 OS=Rattus norvegicus GN=Upf1 PE=4 SV=1	tr|A0A0U1RS25|A0A0U1RS25_RAT (+1)	0.00055
tr|F1LRL9|F1LRL9_RAT Microtubule-associated protein 1B OS=Rattus norvegicus GN=Map1b PE=1 SV=1	tr|F1LRL9|F1LRL9_RAT	0.00055
tr|A0A0G2JSH5|A0A0G2JSH5_RAT Serum albumin OS=Rattus norvegicus GN=Alb PE=1 SV=1	tr|A0A0G2JSH5|A0A0G2JSH5_RAT	0.00055
sp|P13383|NUCL_RAT Nucleolin OS=Rattus norvegicus GN=Ncl PE=1 SV=3	sp|P13383|NUCL_RAT (+1)	0.00055
Cluster of tr|A0A0G2K719|A0A0G2K719_RAT Protein Ddx3x OS=Rattus norvegicus GN=Ddx3x PE=1 SV=1 (tr|A0A0G2K719|A0A0G2K719_RAT)	tr|A0A0G2K719|A0A0G2K719_RAT	0.00046
tr|A0A0G2K719|A0A0G2K719_RAT Protein Ddx3x OS=Rattus norvegicus GN=Ddx3x PE=1 SV=1	tr|A0A0G2K719|A0A0G2K719_RAT	0.00046
tr|Q6P3V9|Q6P3V9_RAT 60S ribosomal protein L4 OS=Rattus norvegicus GN=Rpl4 PE=1 SV=1	tr|Q6P3V9|Q6P3V9_RAT	0.00046
Cluster of sp|P06685|AT1A1_RAT Sodium/potassium-transporting ATPase subunit alpha-1 OS=Rattus norvegicus GN=Atp1a1 PE=1 SV=1 (sp|P06685|AT1A1_RAT)	sp|P06685|AT1A1_RAT	0.00046
sp|P06685|AT1A1_RAT Sodium/potassium-transporting ATPase subunit alpha-1 OS=Rattus norvegicus GN=Atp1a1 PE=1 SV=1	sp|P06685|AT1A1_RAT	0.00046
tr|A0A0G2JU96|A0A0G2JU96_RAT Protein Ahnak OS=Rattus norvegicus GN=Ahnak PE=1 SV=1	tr|A0A0G2JU96|A0A0G2JU96_RAT (+1)	0.00046
Cluster of tr|D4AD15|D4AD15_RAT Protein Eif4g1 OS=Rattus norvegicus GN=Eif4g1 PE=1 SV=2 (tr|D4AD15|D4AD15_RAT)	tr|D4AD15|D4AD15_RAT	0.0005
tr|D4AD15|D4AD15_RAT Protein Eif4g1 OS=Rattus norvegicus GN=Eif4g1 PE=1 SV=2	tr|D4AD15|D4AD15_RAT	0.0005

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells

tr|F1M953|F1M953_RAT Stress-70 protein, mitochondrial OS=Rattus norvegicus GN=Hspa9 PE=1 SV=1	tr|F1M953|F1M953_RAT	0.00032
tr|G3V9Y1|G3V9Y1_RAT Myosin, heavy polypeptide 10, non-muscle, isoform CRA_b OS=Rattus norvegicus GN=Myh10 PE=1 SV=1	tr|G3V9Y1|G3V9Y1_RAT	0.00055
sp|P46462|TERA_RAT Transitional endoplasmic reticulum ATPase OS=Rattus norvegicus GN=Vcp PE=1 SV=3	sp|P46462|TERA_RAT	0.00046
sp|P52873|PYC_RAT Pyruvate carboxylase, mitochondrial OS=Rattus norvegicus GN=Pc PE=1 SV=2	sp|P52873|PYC_RAT (+1)	0.00041
Cluster of sp|Q63357|MYO1D_RAT Unconventional myosin-Id OS=Rattus norvegicus GN=Myo1d PE=1 SV=3 (sp|Q63357|MYO1D_RAT)	sp|Q63357|MYO1D_RAT	0.000092
sp|Q63357|MYO1D_RAT Unconventional myosin-Id OS=Rattus norvegicus GN=Myo1d PE=1 SV=3	sp|Q63357|MYO1D_RAT	0.000092
tr|A0A0G2JZI2|A0A0G2JZI2_RAT Protein Eprs OS=Rattus norvegicus GN=Eprs PE=1 SV=1	tr|A0A0G2JZI2|A0A0G2JZI2_RAT	0.00037
sp|P04177|TY3H_RAT Tyrosine 3-monooxygenase OS=Rattus norvegicus GN=Th PE=1 SV=3	sp|P04177|TY3H_RAT	0.00014
sp|P11980-2|KPYM_RAT Isoform M2 of Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm	sp|P11980-2|KPYM_RAT (+1)	0.00023
Cluster of tr|F1LRP7|F1LRP7_RAT Protein argonaute-2 OS=Rattus norvegicus GN=Ago2 PE=1 SV=2 (tr|F1LRP7|F1LRP7_RAT)	tr|F1LRP7|F1LRP7_RAT	0.000046
tr|F1LRP7|F1LRP7_RAT Protein argonaute-2 OS=Rattus norvegicus GN=Ago2 PE=1 SV=2	tr|F1LRP7|F1LRP7_RAT	0.000046
Cluster of sp|P05197|EF2_RAT Elongation factor 2 OS=Rattus norvegicus GN=Eef2 PE=1 SV=4 (sp|P05197|EF2_RAT)	sp|P05197|EF2_RAT	0.00032
sp|P05197|EF2_RAT Elongation factor 2 OS=Rattus norvegicus GN=Eef2 PE=1 SV=4	sp|P05197|EF2_RAT	0.00032
tr|G3V7M0|G3V7M0_RAT Protein Cnot1 OS=Rattus norvegicus GN=Cnot1 PE=1 SV=1	tr|G3V7M0|G3V7M0_RAT	0.000092
sp|O88600|HSP74_RAT Heat shock 70 kDa protein 4 OS=Rattus norvegicus GN=Hspa4 PE=1 SV=1	sp|O88600|HSP74_RAT (+1)	0.00046
tr|A0A0G2JZ52|A0A0G2JZ52_RAT Protein Hnrnpu OS=Rattus norvegicus GN=Hnrnpu PE=1 SV=1	tr|A0A0G2JZ52|A0A0G2JZ52_RAT (+1)	0.0006
sp|Q4G017|NISCH_RAT Nischarin OS=Rattus norvegicus GN=Nisch PE=2 SV=2	sp|Q4G017|NISCH_RAT	0.00032
sp|P62909|RS3_RAT 40S ribosomal protein S3 OS=Rattus norvegicus GN=Rps3 PE=1 SV=1	sp|P62909|RS3_RAT	0.00037
tr|A0A096MIX2|A0A096MIX2_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, isoform CRA_a OS=Rattus norvegicus GN=Ddx17 PE=1 SV=1	tr|A0A096MIX2|A0A096MIX2_RAT (+1)	0.00046
tr|A0A0G2K2C7|A0A0G2K2C7_RAT Protein Usp9x OS=Rattus norvegicus GN=Usp9x PE=1 SV=1	tr|A0A0G2K2C7|A0A0G2K2C7_RAT (+1)	0.00046
sp|B5DFC8|EIF3C_RAT Eukaryotic translation initiation factor 3 subunit C OS=Rattus norvegicus GN=Eif3c PE=1 SV=1	sp|B5DFC8|EIF3C_RAT	0.00023
sp|Q5BJY9|K1C18_RAT Keratin, type I cytoskeletal 18 OS=Rattus norvegicus GN=Krt18 PE=1 SV=3	sp|Q5BJY9|K1C18_RAT	0.00041
sp|P15999|ATPA_RAT ATP synthase subunit alpha, mitochondrial OS=Rattus norvegicus GN=Atp5a1 PE=1 SV=2	sp|P15999|ATPA_RAT (+1)	0.00014
tr|A0A0G2K8K0|A0A0G2K8K0_RAT Protein Sfpq OS=Rattus norvegicus GN=Sfpq PE=1 SV=1	tr|A0A0G2K8K0|A0A0G2K8K0_RAT	0.00023
sp|Q1JU68|EIF3A_RAT Eukaryotic translation initiation factor 3 subunit A OS=Rattus norvegicus GN=Eif3a PE=2 SV=2	sp|Q1JU68|EIF3A_RAT	0.00023
sp|Q66HD0|ENPL_RAT Endoplasmin OS=Rattus norvegicus GN=Hsp90b1 PE=1 SV=2	sp|Q66HD0|ENPL_RAT (+1)	0.00037
tr|A0A0G2K6I4|A0A0G2K6I4_RAT Protein Enah OS=Rattus norvegicus GN=Enah PE=1 SV=1	tr|A0A0G2K6I4|A0A0G2K6I4_RAT (+1)	0.000046
tr|D3ZFH5|D3ZFH5_RAT Protein Itih2 OS=Rattus norvegicus GN=Itih2 PE=1 SV=3	tr|D3ZFH5|D3ZFH5_RAT	0.00023
sp|P04937-2|FINC_RAT Isoform 2 of Fibronectin OS=Rattus norvegicus GN=Fn1	sp|P04937-2|FINC_RAT (+5)	0.00023
sp|Q5M9G3|CAPR1_RAT Caprin-1 OS=Rattus norvegicus GN=Caprin1 PE=1 SV=2	sp|Q5M9G3|CAPR1_RAT (+1)	0.00023
sp|Q641Y8|DDX1_RAT ATP-dependent RNA helicase DDX1 OS=Rattus norvegicus GN=Ddx1 PE=1 SV=1	sp|Q641Y8|DDX1_RAT	0.00023
tr|A0A096MJP9|A0A096MJP9_RAT Protein Ddi2 OS=Rattus norvegicus GN=Ddi2 PE=1 SV=1	tr|A0A096MJP9|A0A096MJP9_RAT	0
tr|A0A0U1RRP9|A0A0U1RRP9_RAT Protein C2 OS=Rattus norvegicus GN=C2 PE=4 SV=1	tr|A0A0U1RRP9|A0A0U1RRP9_RAT (+1)	0.00041
tr|B1H2A6|B1H2A6_RAT Fxr2 protein OS=Rattus norvegicus GN=Fxr2 PE=1 SV=1	tr|B1H2A6|B1H2A6_RAT	0.00018
tr|D4A2D3|D4A2D3_RAT Protein Mycbp2 OS=Rattus norvegicus GN=Mycbp2 PE=1 SV=3	tr|D4A2D3|D4A2D3_RAT	0.00018
tr|D4A4J0|D4A4J0_RAT Protein Supt16h OS=Rattus norvegicus GN=Supt16h PE=1 SV=1	tr|D4A4J0|D4A4J0_RAT	0.00023
tr|Q6AYI1|Q6AYI1_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 OS=Rattus norvegicus GN=Ddx5 PE=1 SV=1	tr|Q6AYI1|Q6AYI1_RAT	0.00028
sp|P27008|PARP1_RAT Poly [ADP-ribose] polymerase 1 OS=Rattus norvegicus GN=Parp1 PE=1 SV=4	sp|P27008|PARP1_RAT	0.00018
sp|P62703|RS4X_RAT 40S ribosomal protein S4, X isoform OS=Rattus norvegicus GN=Rps4x PE=2 SV=2	sp|P62703|RS4X_RAT (+1)	0.00032
sp|Q04462|SYVC_RAT Valine--tRNA ligase OS=Rattus norvegicus GN=Vars PE=2 SV=2	sp|Q04462|SYVC_RAT	0.00023
sp|Q06000|LIPL_RAT Lipoprotein lipase OS=Rattus norvegicus GN=Lpl PE=1 SV=1	sp|Q06000|LIPL_RAT	0.00032
sp|Q3KR86|MIC60_RAT MICOS complex subunit Mic60 (Fragment) OS=Rattus norvegicus GN=Immt PE=1 SV=1	sp|Q3KR86|MIC60_RAT (+1)	0.00014
sp|Q63355|MYO1C_RAT Unconventional myosin-Ic OS=Rattus norvegicus GN=Myo1c PE=1 SV=2	sp|Q63355|MYO1C_RAT	0.000046
tr|D4AB03|D4AB03_RAT Protein Fam120a OS=Rattus norvegicus GN=Fam120a PE=1 SV=2	tr|D4AB03|D4AB03_RAT	0.00018
tr|F1LX07|F1LX07_RAT Protein Slc25a12 OS=Rattus norvegicus GN=Slc25a12 PE=1 SV=3	tr|F1LX07|F1LX07_RAT	0.00037
tr|M0R735|M0R735_RAT Heterogeneous nuclear ribonucleoprotein Q OS=Rattus norvegicus GN=Syncrip PE=1 SV=2	tr|M0R735|M0R735_RAT	0.000092
tr|Q5M7T5|Q5M7T5_RAT Protein Serpinc1 OS=Rattus norvegicus GN=Serpinc1 PE=1 SV=1	tr|Q5M7T5|Q5M7T5_RAT	0.00028
sp|Q4G061|EIF3B_RAT Eukaryotic translation initiation factor 3 subunit B OS=Rattus norvegicus GN=Eif3b PE=1 SV=1	sp|Q4G061|EIF3B_RAT	0.00018
sp|Q5BJS0|DHX30_RAT Putative ATP-dependent RNA helicase DHX30 OS=Rattus norvegicus GN=Dhx30 PE=1 SV=1	sp|Q5BJS0|DHX30_RAT (+1)	0.00028
sp|Q6PDV7|RL10_RAT 60S ribosomal protein L10 OS=Rattus norvegicus GN=Rpl10 PE=1 SV=3	sp|Q6PDV7|RL10_RAT	0.00018
tr|A0A0G2JYE0|A0A0G2JYE0_RAT Protein Atxn2l OS=Rattus norvegicus GN=Atxn2l PE=1 SV=1	tr|A0A0G2JYE0|A0A0G2JYE0_RAT (+1)	0.00014
tr|A0A0G2JZY6|A0A0G2JZY6_RAT Protein Sptbn1 OS=Rattus norvegicus GN=Sptbn1 PE=1 SV=1	tr|A0A0G2JZY6|A0A0G2JZY6_RAT (+2)	0.000092
tr|D3ZFJ3|D3ZFJ3_RAT Protein Sh3bp1 OS=Rattus norvegicus GN=Sh3bp1 PE=1 SV=1	tr|D3ZFJ3|D3ZFJ3_RAT	0.00055
tr|F1LNF0|F1LNF0_RAT Protein Myh14 OS=Rattus norvegicus GN=Myh14 PE=1 SV=1	tr|F1LNF0|F1LNF0_RAT	0.00018
Cluster of sp|Q2PQA9|KINH_RAT Kinesin-1 heavy chain OS=Rattus norvegicus GN=Kif5b PE=1 SV=1 (sp|Q2PQA9|KINH_RAT)	sp|Q2PQA9|KINH_RAT [2]	0.00014
sp|Q2PQA9|KINH_RAT Kinesin-1 heavy chain OS=Rattus norvegicus GN=Kif5b PE=1 SV=1	sp|Q2PQA9|KINH_RAT	0.00014
tr|G3V6L4|G3V6L4_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif5c PE=1 SV=3	tr|G3V6L4|G3V6L4_RAT	0.000046
sp|P06238|A2MG_RAT Alpha-2-macroglobulin OS=Rattus norvegicus GN=A2m PE=2 SV=2	sp|P06238|A2MG_RAT	0.00014
sp|P10719|ATPB_RAT ATP synthase subunit beta, mitochondrial OS=Rattus norvegicus GN=Atp5b PE=1 SV=2	sp|P10719|ATPB_RAT (+1)	0.000046
sp|P29314|RS9_RAT 40S ribosomal protein S9 OS=Rattus norvegicus GN=Rps9 PE=1 SV=4	sp|P29314|RS9_RAT	0.00018
sp|Q5XI81|FXR1_RAT Fragile X mental retardation syndrome-related protein 1 OS=Rattus norvegicus GN=Fxr1 PE=1 SV=1	sp|Q5XI81|FXR1_RAT (+1)	0.00014
sp|Q68FR6|EF1G_RAT Elongation factor 1-gamma OS=Rattus norvegicus GN=Eef1g PE=2 SV=3	sp|Q68FR6|EF1G_RAT	0.000092
tr|D3ZPL1|D3ZPL1_RAT Cleavage and polyadenylation specific factor 6, 68kDa (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Cpsf6 PE=1 SV=2	tr|D3ZPL1|D3ZPL1_RAT	0.00037
tr|F1LV13|F1LV13_RAT Heterogeneous nuclear ribonucleoprotein M OS=Rattus norvegicus GN=Hnrnpm PE=1 SV=1	tr|F1LV13|F1LV13_RAT (+1)	0.00018
Cluster of sp|Q9Z1X1|ESYT1_RAT Extended synaptotagmin-1 OS=Rattus norvegicus GN=Esyt1 PE=1 SV=1 (sp|Q9Z1X1|ESYT1_RAT)	sp|Q9Z1X1|ESYT1_RAT [2]	0.00018
sp|Q9Z1X1|ESYT1_RAT Extended synaptotagmin-1 OS=Rattus norvegicus GN=Esyt1 PE=1 SV=1	sp|Q9Z1X1|ESYT1_RAT	0.00014
tr|A0A0G2JXJ7|A0A0G2JXJ7_RAT Extended synaptotagmin-1 OS=Rattus norvegicus GN=Esyt1 PE=1 SV=1	tr|A0A0G2JXJ7|A0A0G2JXJ7_RAT	0.000092

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells

Cluster of tr|Q6MG90|Q6MG90_RAT Complement component 4, gene 2 OS=Rattus norvegicus GN=C4b PE=1 SV=1 (tr|Q6MG90|Q6MG90_RAT)	tr|Q6MG90|Q6MG90_RAT	0.00018
tr|Q6MG90|Q6MG90_RAT Complement component 4, gene 2 OS=Rattus norvegicus GN=C4b PE=1 SV=1	tr|Q6MG90|Q6MG90_RAT	0.00018
sp|P62828|RAN_RAT GTP-binding nuclear protein Ran OS=Rattus norvegicus GN=Ran PE=1 SV=3	sp|P62828|RAN_RAT	0.00028
Cluster of tr|C0JPT7|C0JPT7_RAT Filamin alpha OS=Rattus norvegicus GN=Flna PE=1 SV=1 (tr|C0JPT7|C0JPT7_RAT)	tr|C0JPT7|C0JPT7_RAT	0.000046
tr|C0JPT7|C0JPT7_RAT Filamin alpha OS=Rattus norvegicus GN=Flna PE=1 SV=1	tr|C0JPT7|C0JPT7_RAT	0.000046
tr|A0A0G2K5X3|A0A0G2K5X3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K5X3|A0A0G2K5X3_RAT	0.00032
Cluster of tr|F1M4A4|F1M4A4_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif1a PE=1 SV=3 (tr|F1M4A4|F1M4A4_RAT)	tr|F1M4A4|F1M4A4_RAT	0.000046
tr|F1M4A4|F1M4A4_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif1a PE=1 SV=3	tr|F1M4A4|F1M4A4_RAT	0.000046
Cluster of sp|P63102|1433Z_RAT 14-3-3 protein zeta/delta OS=Rattus norvegicus GN=Ywhaz PE=1 SV=1 (sp|P63102|1433Z_RAT)	sp|P63102|1433Z_RAT [3]	0.00023
sp|P63102|1433Z_RAT 14-3-3 protein zeta/delta OS=Rattus norvegicus GN=Ywhaz PE=1 SV=1	sp|P63102|1433Z_RAT (+1)	0.00014
sp|P68255|1433T_RAT 14-3-3 protein theta OS=Rattus norvegicus GN=Ywhaq PE=1 SV=1	sp|P68255|1433T_RAT	0.00014
sp|Q4VSI4|UBP7_RAT Ubiquitin carboxyl-terminal hydrolase 7 OS=Rattus norvegicus GN=Usp7 PE=1 SV=1	sp|Q4VSI4|UBP7_RAT (+1)	0.000046
sp|Q5SGE0|LPPRC_RAT Leucine-rich PPR motif-containing protein, mitochondrial OS=Rattus norvegicus GN=Lrpprc PE=1 SV=1	sp|Q5SGE0|LPPRC_RAT (+1)	0.00023
sp|Q5XI32|CAPZB_RAT F-actin-capping protein subunit beta OS=Rattus norvegicus GN=Capzb PE=1 SV=1	sp|Q5XI32|CAPZB_RAT	0.00037
sp|Q6AYT3|RTCB_RAT tRNA-splicing ligase RtcB homolog OS=Rattus norvegicus GN=Rtcb PE=2 SV=1	sp|Q6AYT3|RTCB_RAT	0
sp|Q9QZA2|PDC6I_RAT Programmed cell death 6-interacting protein OS=Rattus norvegicus GN=Pdcd6ip PE=1 SV=2	sp|Q9QZA2|PDC6I_RAT	0.00018
tr|A0A0G2JUU7|A0A0G2JUU7_RAT Protein Tubgcp3 OS=Rattus norvegicus GN=Tubgcp3 PE=1 SV=1	tr|A0A0G2JUU7|A0A0G2JUU7_RAT	0.00023
tr|A0A0G2JVL8|A0A0G2JVL8_RAT Protein Iars OS=Rattus norvegicus GN=Iars PE=1 SV=1	tr|A0A0G2JVL8|A0A0G2JVL8_RAT (+1)	0.000092
tr|A0A0G2JW88|A0A0G2JW88_RAT Microtubule-associated protein OS=Rattus norvegicus GN=Map4 PE=1 SV=1	tr|A0A0G2JW88|A0A0G2JW88_RAT	0.00018
tr|A0A0G2K2M9|A0A0G2K2M9_RAT Protein Srrm2 OS=Rattus norvegicus GN=Srrm2 PE=1 SV=1	tr|A0A0G2K2M9|A0A0G2K2M9_RAT	0.00018
Cluster of tr|E9PU01|E9PU01_RAT Protein Chd4 OS=Rattus norvegicus GN=Chd4 PE=1 SV=3 (tr|E9PU01|E9PU01_RAT)	tr|E9PU01|E9PU01_RAT	0.000092
tr|E9PU01|E9PU01_RAT Protein Chd4 OS=Rattus norvegicus GN=Chd4 PE=1 SV=3	tr|E9PU01|E9PU01_RAT	0.000092
sp|P16086|SPTN1_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=2	sp|P16086|SPTN1_RAT (+3)	0.00023
sp|P16638|ACLY_RAT ATP-citrate synthase OS=Rattus norvegicus GN=Acly PE=1 SV=1	sp|P16638|ACLY_RAT (+2)	0.00018
sp|P24049|RL17_RAT 60S ribosomal protein L17 OS=Rattus norvegicus GN=Rpl17 PE=2 SV=3	sp|P24049|RL17_RAT (+2)	0.00018
sp|P40329|SYRC_RAT Arginine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Rars PE=1 SV=2	sp|P40329|SYRC_RAT	0
sp|P61980|HNRPK_RAT Heterogeneous nuclear ribonucleoprotein K OS=Rattus norvegicus GN=Hnrnpk PE=1 SV=1	sp|P61980|HNRPK_RAT (+1)	0
sp|Q62940|NEDD4_RAT E3 ubiquitin-protein ligase NEDD4 OS=Rattus norvegicus GN=Nedd4 PE=1 SV=1	sp|Q62940|NEDD4_RAT	0.00014
tr|B2RYP8|B2RYP8_RAT A disintegrin and metalloprotease domain 8 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Tubgcp2 PE=1 SV=1	tr|B2RYP8|B2RYP8_RAT	0.00023
tr|D4A4Z9|D4A4Z9_RAT Protein Ktn1 OS=Rattus norvegicus GN=Ktn1 PE=1 SV=2	tr|D4A4Z9|D4A4Z9_RAT	0.00018
tr|D4A9D6|D4A9D6_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 9 (Predicted) OS=Rattus norvegicus GN=Dhx9 PE=1 SV=1	tr|D4A9D6|D4A9D6_RAT	0.00018
tr|G3V874|G3V874_RAT Erythrocyte protein band 4.1-like 3, isoform CRA_b OS=Rattus norvegicus GN=Epb41l3 PE=1 SV=1	tr|G3V874|G3V874_RAT	0.000092
Cluster of tr|M0R7B4|M0R7B4_RAT Protein LOC684828 OS=Rattus norvegicus GN=LOC684828 PE=1 SV=2 (tr|M0R7B4|M0R7B4_RAT)	tr|M0R7B4|M0R7B4_RAT [2]	0.00023
tr|M0R7B4|M0R7B4_RAT Protein LOC684828 OS=Rattus norvegicus GN=LOC684828 PE=1 SV=2	tr|M0R7B4|M0R7B4_RAT	0.00018
sp|P15865|H14_RAT Histone H1.4 OS=Rattus norvegicus GN=Hist1h1e PE=1 SV=3	sp|P15865|H14_RAT	0.00018
Cluster of tr|D3ZB30|D3ZB30_RAT Polypyrimidine tract binding protein 1, isoform CRA_c OS=Rattus norvegicus GN=Ptbp1 PE=1 SV=1 (tr|D3ZB30|D3ZB30_RAT)	tr|D3ZB30|D3ZB30_RAT [2]	0.00014
tr|D3ZB30|D3ZB30_RAT Polypyrimidine tract binding protein 1, isoform CRA_c OS=Rattus norvegicus GN=Ptbp1 PE=1 SV=1	tr|D3ZB30|D3ZB30_RAT (+1)	0.00014
Cluster of tr|F1LQS3|F1LQS3_RAT 60S ribosomal protein L6 OS=Rattus norvegicus GN=Rpl6-ps1 PE=3 SV=1 (tr|F1LQS3|F1LQS3_RAT)	tr|F1LQS3|F1LQS3_RAT [2]	0.00014
tr|F1LQS3|F1LQS3_RAT 60S ribosomal protein L6 OS=Rattus norvegicus GN=Rpl6-ps1 PE=3 SV=1	tr|F1LQS3|F1LQS3_RAT (+1)	0.00014
Cluster of tr|F1LUE2|F1LUE2_RAT Calcium/calmodulin-dependent protein kinase II, beta, isoform CRA_c OS=Rattus norvegicus GN=Camk2b PE=1 SV=2 (tr|F1LUE2|F	tr|F1LUE2|F1LUE2_RAT [4]	0.000092
tr|F1LUE2|F1LUE2_RAT Calcium/calmodulin-dependent protein kinase II, beta, isoform CRA_c OS=Rattus norvegicus GN=Camk2b PE=1 SV=2	tr|F1LUE2|F1LUE2_RAT (+1)	0.000092
sp|P15791-2|KCC2D_RAT Isoform Delta 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta OS=Rattus norvegicus GN=Camk2d	sp|P15791-2|KCC2D_RAT (+1)	0
tr|Q3KR94|Q3KR94_RAT Protein Vtn OS=Rattus norvegicus GN=Vtn PE=1 SV=1	tr|Q3KR94|Q3KR94_RAT (+1)	0.00014
tr|A3KNA0|A3KNA0_RAT Aqr protein OS=Rattus norvegicus GN=Aqr PE=1 SV=1	tr|A3KNA0|A3KNA0_RAT	0.00014
Cluster of tr|E9PSX6|E9PSX6_RAT Calcium-transporting ATPase OS=Rattus norvegicus GN=Atp2a2 PE=1 SV=3 (tr|E9PSX6|E9PSX6_RAT)	tr|E9PSX6|E9PSX6_RAT	0.000092
tr|E9PSX6|E9PSX6_RAT Calcium-transporting ATPase OS=Rattus norvegicus GN=Atp2a2 PE=1 SV=3	tr|E9PSX6|E9PSX6_RAT	0.000092
Cluster of tr|A0A0G2JTG7|A0A0G2JTG7_RAT Heterogeneous nuclear ribonucleoprotein H OS=Rattus norvegicus GN=Hnrnph1 PE=1 SV=1 (tr|A0A0G2JTG7|A0A0G2JT	tr|A0A0G2JTG7|A0A0G2JTG7_RAT [2]	0.000092
tr|A0A0G2JTG7|A0A0G2JTG7_RAT Heterogeneous nuclear ribonucleoprotein H OS=Rattus norvegicus GN=Hnrnph1 PE=1 SV=1	tr|A0A0G2JTG7|A0A0G2JTG7_RAT (+1)	0.000092
sp|P08461|ODP2_RAT Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial OS=Rattus norvegicus GN=Dlat P	sp|P08461|ODP2_RAT	0
sp|P18292|THRB_RAT Prothrombin OS=Rattus norvegicus GN=F2 PE=1 SV=1	sp|P18292|THRB_RAT (+1)	0.000092
sp|Q3B8Q1|DDX21_RAT Nucleolar RNA helicase 2 OS=Rattus norvegicus GN=Ddx21 PE=2 SV=1	sp|Q3B8Q1|DDX21_RAT	0.000092
sp|Q80WE1-2|FMR1_RAT Isoform 2 of Fragile X mental retardation protein 1 homolog OS=Rattus norvegicus GN=Fmr1	sp|Q80WE1-2|FMR1_RAT (+2)	0.00014
tr|A0A0G2K5C6|A0A0G2K5C6_RAT Microtubule-associated protein 1A OS=Rattus norvegicus GN=Map1a PE=1 SV=1	tr|A0A0G2K5C6|A0A0G2K5C6_RAT	0.000092
tr|B2RYM3|B2RYM3_RAT Inter-alpha trypsin inhibitor, heavy chain 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Itih1 PE=1 SV=1	tr|B2RYM3|B2RYM3_RAT	0.00014
tr|D3ZC82|D3ZC82_RAT Protein Nufip2 OS=Rattus norvegicus GN=Nufip2 PE=1 SV=2	tr|D3ZC82|D3ZC82_RAT	0.000092
tr|D3ZH41|D3ZH41_RAT Cytoskeleton-associated protein 4 (Predicted) OS=Rattus norvegicus GN=Ckap4 PE=1 SV=2	tr|D3ZH41|D3ZH41_RAT	0.00014
tr|D3ZYS7|D3ZYS7_RAT Protein G3bp1 OS=Rattus norvegicus GN=G3bp1 PE=1 SV=1	tr|D3ZYS7|D3ZYS7_RAT	0
tr|F1LR10|F1LR10_RAT Epithelial protein lost in neoplasm OS=Rattus norvegicus GN=Lima1 PE=1 SV=2	tr|F1LR10|F1LR10_RAT	0
tr|Q5PPJ6|Q5PPJ6_RAT Leucyl-tRNA synthetase OS=Rattus norvegicus GN=Lars PE=1 SV=1	tr|Q5PPJ6|Q5PPJ6_RAT	0.00028
sp|P62250|RS16_RAT 40S ribosomal protein S16 OS=Rattus norvegicus GN=Rps16 PE=1 SV=2	sp|P62250|RS16_RAT	0.00023
sp|P62832|RL23_RAT 60S ribosomal protein L23 OS=Rattus norvegicus GN=Rpl23 PE=2 SV=1	sp|P62832|RL23_RAT	0.00018
Cluster of tr|A0A0G2JT63|A0A0G2JT63_RAT Protein Cyfip2 OS=Rattus norvegicus GN=Cyfip2 PE=1 SV=1 (tr|A0A0G2JT63|A0A0G2JT63_RAT)	tr|A0A0G2JT63|A0A0G2JT63_RAT [2]	0.00014
tr|A0A0G2JT63|A0A0G2JT63_RAT Protein Cyfip2 OS=Rattus norvegicus GN=Cyfip2 PE=1 SV=1	tr|A0A0G2JT63|A0A0G2JT63_RAT	0.000092
tr|D4A8H8|D4A8H8_RAT Cytoplasmic FMR1 interacting protein 1 (Predicted) OS=Rattus norvegicus GN=Cyfip1 PE=1 SV=1	tr|D4A8H8|D4A8H8_RAT	0.00014
sp|P41123|RL13_RAT 60S ribosomal protein L13 OS=Rattus norvegicus GN=Rpl13 PE=1 SV=2	sp|P41123|RL13_RAT (+2)	0.000092
Cluster of sp|P21575-5|DYN1_RAT Isoform 5 of Dynamin-1 OS=Rattus norvegicus GN=Dnm1 (sp|P21575-5|DYN1_RAT)	sp|P21575-5|DYN1_RAT [4]	0.000092
sp|P21575-5|DYN1_RAT Isoform 5 of Dynamin-1 OS=Rattus norvegicus GN=Dnm1	sp|P21575-5|DYN1_RAT (+3)	0.000092

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells

Cluster of tr|F1M7P4|F1M7P4_RAT Peripherin OS=Rattus norvegicus GN=Prph PE=1 SV=1 (tr|F1M7P4|F1M7P4_RAT)	tr|F1M7P4|F1M7P4_RAT	0.00023
tr|F1M7P4|F1M7P4_RAT Peripherin OS=Rattus norvegicus GN=Prph PE=1 SV=1	tr|F1M7P4|F1M7P4_RAT	0.00023
tr|A0A0G2JYH7|A0A0G2JYH7_RAT Protein Sh2d3c OS=Rattus norvegicus GN=Sh2d3c PE=1 SV=1	tr|A0A0G2JYH7|A0A0G2JYH7_RAT	0.000092
Cluster of sp|O35964|SH3G1_RAT Endophilin-A2 OS=Rattus norvegicus GN=Sh3gl1 PE=1 SV=1 (sp|O35964|SH3G1_RAT)	sp|O35964|SH3G1_RAT	0.00028
sp|O35964|SH3G1_RAT Endophilin-A2 OS=Rattus norvegicus GN=Sh3gl1 PE=1 SV=1	sp|O35964|SH3G1_RAT	0.00028
sp|P07825|SYPH_RAT Synaptophysin OS=Rattus norvegicus GN=Syp PE=1 SV=1	sp|P07825|SYPH_RAT	0.00014
sp|P47942|DPYL2_RAT Dihydropyrimidinase-related protein 2 OS=Rattus norvegicus GN=Dpysl2 PE=1 SV=1	sp|P47942|DPYL2_RAT	0
sp|P63039|CH60_RAT 60 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspd1 PE=1 SV=1	sp|P63039|CH60_RAT	0
sp|P97536|CAND1_RAT Cullin-associated NEDD8-dissociated protein 1 OS=Rattus norvegicus GN=Cand1 PE=1 SV=1	sp|P97536|CAND1_RAT	0.000046
sp|Q01177|PLMN_RAT Plasminogen OS=Rattus norvegicus GN=Plg PE=2 SV=2	sp|Q01177|PLMN_RAT	0.000092
sp|Q04931|SSRP1_RAT FACT complex subunit SSRP1 OS=Rattus norvegicus GN=Ssrp1 PE=1 SV=2	sp|Q04931|SSRP1_RAT	0.000046
sp|Q07647|GTR3_RAT Solute carrier family 2, facilitated glucose transporter member 3 OS=Rattus norvegicus GN=Slc2a3 PE=1 SV=1	sp|Q07647|GTR3_RAT (+2)	0.00014
sp|Q6AYK8|EIF3D_RAT Eukaryotic translation initiation factor 3 subunit D OS=Rattus norvegicus GN=Eif3d PE=1 SV=1	sp|Q6AYK8|EIF3D_RAT	0
sp|Q6MG08|ABCF1_RAT ATP-binding cassette sub-family F member 1 OS=Rattus norvegicus GN=Abcf1 PE=1 SV=1	sp|Q6MG08|ABCF1_RAT	0.000046
sp|Q6P502|TCPG_RAT T-complex protein 1 subunit gamma OS=Rattus norvegicus GN=Cct3 PE=1 SV=1	sp|Q6P502|TCPG_RAT	0.000046
sp|Q7TPB1|TCPD_RAT T-complex protein 1 subunit delta OS=Rattus norvegicus GN=Cct4 PE=1 SV=3	sp|Q7TPB1|TCPD_RAT	0.000046
sp|Q8CG07|WRIP1_RAT ATPase WRNIP1 OS=Rattus norvegicus GN=Wrnip1 PE=1 SV=1	sp|Q8CG07|WRIP1_RAT	0.000092
sp|Q9Z1P2|ACTN1_RAT Alpha-actinin-1 OS=Rattus norvegicus GN=Actn1 PE=1 SV=1	sp|Q9Z1P2|ACTN1_RAT (+2)	0.000092
tr|A0A0G2K5A4|A0A0G2K5A4_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K5A4|A0A0G2K5A4_RAT (+1)	0.000046
tr|A0A0G2K9T1|A0A0G2K9T1_RAT E3 ubiquitin-protein ligase OS=Rattus norvegicus GN=Itch PE=1 SV=1	tr|A0A0G2K9T1|A0A0G2K9T1_RAT	0.00023
tr|D3Z941|D3Z941_RAT Protein Mars OS=Rattus norvegicus GN=Mars PE=1 SV=1	tr|D3Z941|D3Z941_RAT	0.00023
tr|D3ZFD0|D3ZFD0_RAT Protein Myo18a OS=Rattus norvegicus GN=Myo18a PE=1 SV=2	tr|D3ZFD0|D3ZFD0_RAT	0
tr|F1LML2|F1LML2_RAT Polyubiquitin-C OS=Rattus norvegicus GN=Ubc PE=4 SV=1	tr|F1LML2|F1LML2_RAT	0.00014
tr|F1M062|F1M062_RAT Protein Larp1 OS=Rattus norvegicus GN=Larp1 PE=1 SV=3	tr|F1M062|F1M062_RAT	0.00018
Cluster of sp|P18445|RL27A_RAT 60S ribosomal protein L27a OS=Rattus norvegicus GN=Rpl27a PE=1 SV=3 (sp|P18445|RL27A_RAT)	sp|P18445|RL27A_RAT [2]	0.00014
sp|P18445|RL27A_RAT 60S ribosomal protein L27a OS=Rattus norvegicus GN=Rpl27a PE=1 SV=3	sp|P18445|RL27A_RAT (+1)	0.00014
sp|Q62910-3|SYNJ1_RAT Isoform 3 of Synaptojanin-1 OS=Rattus norvegicus GN=Synj1	sp|Q62910-3|SYNJ1_RAT (+3)	0.00014
tr|D3ZD97|D3ZD97_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 15 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Dhx15 PE=1 SV=1	tr|D3ZD97|D3ZD97_RAT	0.00014
tr|F1LRI5|F1LRI5_RAT Protein Gcn1l1 OS=Rattus norvegicus GN=Gcn1l1 PE=1 SV=3	tr|F1LRI5|F1LRI5_RAT	0.000046
tr|D3ZC56|D3ZC56_RAT Protein Dst OS=Rattus norvegicus GN=Dst PE=1 SV=3	tr|D3ZC56|D3ZC56_RAT	0
tr|A0A0G2K2P5|A0A0G2K2P5_RAT Protein Tjp1 OS=Rattus norvegicus GN=Tjp1 PE=1 SV=1	tr|A0A0G2K2P5|A0A0G2K2P5_RAT (+1)	0.00014
Cluster of sp|Q5XI78|ODO1_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdh PE=1 SV=1 (sp|Q5XI78|ODO1_RAT)	sp|Q5XI78|ODO1_RAT	0.00014
sp|Q5XI78|ODO1_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdh PE=1 SV=1	sp|Q5XI78|ODO1_RAT	0.00014
tr|D3ZYD7|D3ZYD7_RAT Protein Ccdc88a OS=Rattus norvegicus GN=Ccdc88a PE=1 SV=3	tr|D3ZYD7|D3ZYD7_RAT	0.000092
Cluster of sp|P62853|RS25_RAT 40S ribosomal protein S25 OS=Rattus norvegicus GN=Rps25 PE=2 SV=1 (sp|P62853|RS25_RAT)	sp|P62853|RS25_RAT [3]	0.000092
sp|P62853|RS25_RAT 40S ribosomal protein S25 OS=Rattus norvegicus GN=Rps25 PE=2 SV=1	sp|P62853|RS25_RAT (+2)	0.000092
tr|F1LMV6|F1LMV6_RAT Protein Dsp OS=Rattus norvegicus GN=Dsp PE=1 SV=1	tr|F1LMV6|F1LMV6_RAT	0.000046
tr|A0A0G2JUC9|A0A0G2JUC9_RAT Protein Herc2 OS=Rattus norvegicus GN=Herc2 PE=1 SV=1	tr|A0A0G2JUC9|A0A0G2JUC9_RAT (+1)	0.000092
tr|A0A0G2K8K3|A0A0G2K8K3_RAT Heparin cofactor 2 OS=Rattus norvegicus GN=Serpind1 PE=1 SV=1	tr|A0A0G2K8K3|A0A0G2K8K3_RAT	0.00014
Cluster of sp|Q4AEF8|COPG1_RAT Coatomer subunit gamma-1 OS=Rattus norvegicus GN=Copg1 PE=2 SV=1 (sp|Q4AEF8|COPG1_RAT)	sp|Q4AEF8|COPG1_RAT [2]	0.000046
sp|Q4AEF8|COPG1_RAT Coatomer subunit gamma-1 OS=Rattus norvegicus GN=Copg1 PE=2 SV=1	sp|Q4AEF8|COPG1_RAT (+1)	0.000046
tr|F1LNR1|F1LNR1_RAT Protein Clasp1 OS=Rattus norvegicus GN=Clasp1 PE=1 SV=3	tr|F1LNR1|F1LNR1_RAT	0.000092
Cluster of sp|Q9JKS6-2|PCLO_RAT Isoform 2 of Protein piccolo OS=Rattus norvegicus GN=Pclo (sp|Q9JKS6-2|PCLO_RAT)	sp|Q9JKS6-2|PCLO_RAT [3]	0.000092
sp|Q9JKS6-2|PCLO_RAT Isoform 2 of Protein piccolo OS=Rattus norvegicus GN=Pclo	sp|Q9JKS6-2|PCLO_RAT (+2)	0.000092
Cluster of tr|Q68G39|Q68G39_RAT Cyclin-dependent kinase 16 OS=Rattus norvegicus GN=Cdk16 PE=1 SV=1 (tr|Q68G39|Q68G39_RAT)	tr|Q68G39|Q68G39_RAT	0.00014
tr|Q68G39|Q68G39_RAT Cyclin-dependent kinase 16 OS=Rattus norvegicus GN=Cdk16 PE=1 SV=1	tr|Q68G39|Q68G39_RAT	0.00014
sp|P07153|RPN1_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 OS=Rattus norvegicus GN=Rpn1 PE=2 SV=1	sp|P07153|RPN1_RAT (+1)	0.000046
sp|P85834|EFTU_RAT Elongation factor Tu, mitochondrial OS=Rattus norvegicus GN=Tufm PE=1 SV=1	sp|P85834|EFTU_RAT	0.000092
sp|Q5FWT1|FA98A_RAT Protein FAM98A OS=Rattus norvegicus GN=Fam98a PE=2 SV=1	sp|Q5FWT1|FA98A_RAT	0.000046
sp|Q99JD4|CLAP2_RAT CLIP-associating protein 2 OS=Rattus norvegicus GN=Clasp2 PE=1 SV=1	sp|Q99JD4|CLAP2_RAT	0.000046
sp|Q9WUL0|TOP1_RAT DNA topoisomerase 1 OS=Rattus norvegicus GN=Top1 PE=1 SV=1	sp|Q9WUL0|TOP1_RAT	0.000092
tr|A0A0G2K9I6|A0A0G2K9I6_RAT Ceruloplasmin OS=Rattus norvegicus GN=Cp PE=1 SV=1	tr|A0A0G2K9I6|A0A0G2K9I6_RAT	0.000092
tr|D3ZRK0|D3ZRK0_RAT Protein Fam83h OS=Rattus norvegicus GN=Fam83h PE=1 SV=1	tr|D3ZRK0|D3ZRK0_RAT	0.00023
tr|G3V918|G3V918_RAT Phosphoribosylglycinamide formyltransferase, isoform CRA_a OS=Rattus norvegicus GN=Gart PE=1 SV=1	tr|G3V918|G3V918_RAT	0.00018
sp|P10687|PLCB1_RAT 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1 OS=Rattus norvegicus GN=Plcb1 PE=1 SV=1	sp|P10687|PLCB1_RAT (+2)	0.00014
sp|Q68FP1-2|GELS_RAT Isoform 2 of Gelsolin OS=Rattus norvegicus GN=Gsn	sp|Q68FP1-2|GELS_RAT (+1)	0.00014
sp|Q9JJ31|CUL5_RAT Cullin-5 OS=Rattus norvegicus GN=Cul5 PE=1 SV=3	sp|Q9JJ31|CUL5_RAT (+1)	0
tr|D4A8A0|D4A8A0_RAT DNA fragmentation factor subunit beta OS=Rattus norvegicus GN=Cad PE=1 SV=2	tr|D4A8A0|D4A8A0_RAT	0.000092
tr|G3V8T4|G3V8T4_RAT DNA damage-binding protein 1 OS=Rattus norvegicus GN=Ddb1 PE=1 SV=1	tr|G3V8T4|G3V8T4_RAT	0.00014
tr|A0A0G2K428|A0A0G2K428_RAT Dynactin subunit 1 OS=Rattus norvegicus GN=Dctn1 PE=1 SV=1	tr|A0A0G2K428|A0A0G2K428_RAT	0.000092
tr|A0A0G2JWD6|A0A0G2JWD6_RAT AP-3 complex subunit beta OS=Rattus norvegicus GN=Ap3b1 PE=1 SV=1	tr|A0A0G2JWD6|A0A0G2JWD6_RAT	0.000046
tr|B0BN81|B0BN81_RAT 40S ribosomal protein S5 OS=Rattus norvegicus GN=Rps5 PE=1 SV=1	tr|B0BN81|B0BN81_RAT	0.000092
sp|Q5U2Y1-2|GTF2I_RAT Isoform 2 of General transcription factor II-I OS=Rattus norvegicus GN=Gtf2i	sp|Q5U2Y1-2|GTF2I_RAT (+2)	0.000092
tr|B1WC16|B1WC16_RAT BCL2-associated transcription factor 1, isoform CRA_a OS=Rattus norvegicus GN=Bclaf1 PE=1 SV=1	tr|B1WC16|B1WC16_RAT	0.000092
Cluster of tr|A0A0G2K625|A0A0G2K625_RAT Protein LOC297568 OS=Rattus norvegicus GN=Mug1 PE=1 SV=1 (tr|A0A0G2K625|A0A0G2K625_RAT)	tr|A0A0G2K625|A0A0G2K625_RAT [2]	0.00014
tr|A0A0G2K625|A0A0G2K625_RAT Protein LOC297568 OS=Rattus norvegicus GN=Mug1 PE=1 SV=1	tr|A0A0G2K625|A0A0G2K625_RAT	0.000092
tr|G3V9J1|G3V9J1_RAT Protein LOC297568 OS=Rattus norvegicus GN=LOC297568 PE=1 SV=3	tr|G3V9J1|G3V9J1_RAT	0.000092

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells

Cluster of sp|O55043|ARHG7_RAT Rho guanine nucleotide exchange factor 7 OS=Rattus norvegicus GN=Arhgef7 PE=1 SV=1 (sp|O55043|ARHG7_RAT)	sp|O55043|ARHG7_RAT	0.000046
sp|O55043|ARHG7_RAT Rho guanine nucleotide exchange factor 7 OS=Rattus norvegicus GN=Arhgef7 PE=1 SV=1	sp|O55043|ARHG7_RAT	0.000046
Cluster of sp|P21531|RL3_RAT 60S ribosomal protein L3 OS=Rattus norvegicus GN=Rpl3 PE=1 SV=3 (sp|P21531|RL3_RAT)	sp|P21531|RL3_RAT	0.000046
sp|P21531|RL3_RAT 60S ribosomal protein L3 OS=Rattus norvegicus GN=Rpl3 PE=1 SV=3	sp|P21531|RL3_RAT	0.000046
sp|Q9Z327-2|SYNPO_RAT Isoform 2 of Synaptopodin OS=Rattus norvegicus GN=Synpo	sp|Q9Z327-2|SYNPO_RAT	0.00018
Cluster of tr|F1M1R4|F1M1R4_RAT Protein Rbm27 OS=Rattus norvegicus GN=Rbm27 PE=1 SV=2 (tr|F1M1R4|F1M1R4_RAT)	tr|F1M1R4|F1M1R4_RAT	0
tr|D3ZRG7|D3ZRG7_RAT Protein Rbm26 OS=Rattus norvegicus GN=Rbm26 PE=1 SV=2	tr|D3ZRG7|D3ZRG7_RAT	0
sp|Q64428|ECHA_RAT Trifunctional enzyme subunit alpha, mitochondrial OS=Rattus norvegicus GN=Hadha PE=1 SV=2	sp|Q64428|ECHA_RAT	0
sp|Q9Z272|GIT1_RAT ARF GTPase-activating protein GIT1 OS=Rattus norvegicus GN=Git1 PE=1 SV=1	sp|Q9Z272|GIT1_RAT (+1)	0.000046
tr|A0A0H2UHS7|A0A0H2UHS7_RAT 60S ribosomal protein L18 OS=Rattus norvegicus GN=Rpl18 PE=1 SV=1	tr|A0A0H2UHS7|A0A0H2UHS7_RAT	0.00014
tr|B2RYR8|B2RYR8_RAT 40S ribosomal protein S8 OS=Rattus norvegicus GN=Rps8 PE=2 SV=1	tr|B2RYR8|B2RYR8_RAT (+1)	0.000046
tr|F1LPS8|F1LPS8_RAT Transcriptional activator protein Pur-alpha OS=Rattus norvegicus GN=Pura PE=1 SV=3	tr|F1LPS8|F1LPS8_RAT	0.000046
tr|G3V7G9|G3V7G9_RAT Eukaryotic translation initiation factor 3, subunit 6 interacting protein OS=Rattus norvegicus GN=Eif3l PE=1 SV=2	tr|G3V7G9|G3V7G9_RAT	0
tr|Q5BJP4|Q5BJP4_RAT Protein LOC100910882 OS=Rattus norvegicus GN=Rbm39 PE=1 SV=1	tr|Q5BJP4|Q5BJP4_RAT	0.000092
sp|P62804|H4_RAT Histone H4 OS=Rattus norvegicus GN=Hist1h4b PE=1 SV=2	sp|P62804|H4_RAT	0.00014
sp|P62961|YBOX1_RAT Nuclease-sensitive element-binding protein 1 OS=Rattus norvegicus GN=Ybx1 PE=2 SV=3	sp|P62961|YBOX1_RAT (+1)	0
sp|Q6Q0N3|NT5D2_RAT 5'-nucleotidase domain-containing protein 2 OS=Rattus norvegicus GN=Nt5dc2 PE=2 SV=2	sp|Q6Q0N3|NT5D2_RAT	0.000092
sp|G3V6S8|SRSF6_RAT Serine/arginine-rich splicing factor 6 OS=Rattus norvegicus GN=Srsf6 PE=1 SV=1	sp|G3V6S8|SRSF6_RAT	0.000046
sp|Q62780|DDX46_RAT Probable ATP-dependent RNA helicase DDX46 OS=Rattus norvegicus GN=Ddx46 PE=1 SV=1	sp|Q62780|DDX46_RAT	0.00014
tr|A9CMB7|A9CMB7_RAT Aspartate--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Dars PE=1 SV=1	tr|A9CMB7|A9CMB7_RAT	0
sp|P52296|IMB1_RAT Importin subunit beta-1 OS=Rattus norvegicus GN=Kpnb1 PE=1 SV=1	sp|P52296|IMB1_RAT (+1)	0.000046
tr|G3V9N1|G3V9N1_RAT RCG21137 OS=Rattus norvegicus GN=Pgam5 PE=1 SV=1	tr|G3V9N1|G3V9N1_RAT	0.00018
sp|P12785|FAS_RAT Fatty acid synthase OS=Rattus norvegicus GN=Fasn PE=1 SV=3	sp|P12785|FAS_RAT	0.000092
sp|Q63041|A1M_RAT Alpha-1-macroglobulin OS=Rattus norvegicus GN=A1m PE=1 SV=1	sp|Q63041|A1M_RAT	0.000092
sp|Q9ESV6|G3PT_RAT Glyceraldehyde-3-phosphate dehydrogenase, testis-specific OS=Rattus norvegicus GN=Gapdhs PE=1 SV=1	sp|Q9ESV6|G3PT_RAT (+1)	0.000092
sp|Q9QUL6|NSF_RAT Vesicle-fusing ATPase OS=Rattus norvegicus GN=Nsf PE=1 SV=1	sp|Q9QUL6|NSF_RAT (+2)	0.000092
tr|E9PU11|E9PU11_RAT Protein Ythdf2 OS=Rattus norvegicus GN=Ythdf2 PE=1 SV=3	tr|E9PU11|E9PU11_RAT	0
sp|Q925G1-2|HDGR2_RAT Isoform 2 of Hepatoma-derived growth factor-related protein 2 OS=Rattus norvegicus GN=Hdgfrp2	sp|Q925G1-2|HDGR2_RAT (+2)	0.000092
sp|Q9JIL3|ILF3_RAT Interleukin enhancer-binding factor 3 OS=Rattus norvegicus GN=Ilf3 PE=1 SV=2	sp|Q9JIL3|ILF3_RAT (+2)	0.000092
sp|P23514|COPB_RAT Coatomer subunit beta OS=Rattus norvegicus GN=Copb1 PE=1 SV=1	sp|P23514|COPB_RAT	0.000092
tr|D3ZIE9|D3ZIE9_RAT Protein Aldh18a1 OS=Rattus norvegicus GN=Aldh18a1 PE=3 SV=1	tr|D3ZIE9|D3ZIE9_RAT	0.000092
tr|G3V6T1|G3V6T1_RAT Coatomer subunit alpha OS=Rattus norvegicus GN=Copa PE=1 SV=1	tr|G3V6T1|G3V6T1_RAT	0.000092
tr|F1LRS2|F1LRS2_RAT Protein Dock7 OS=Rattus norvegicus GN=Dock7 PE=1 SV=2	tr|F1LRS2|F1LRS2_RAT	0.000046
sp|Q5FVM4|NONO_RAT Non-POU domain-containing octamer-binding protein OS=Rattus norvegicus GN=Nono PE=1 SV=3	sp|Q5FVM4|NONO_RAT	0
tr|B2GUZ3|B2GUZ3_RAT Mthfd1l protein OS=Rattus norvegicus GN=Mthfd1l PE=1 SV=1	tr|B2GUZ3|B2GUZ3_RAT	0.000092
sp|P24051|RS27L_RAT 40S ribosomal protein S27-like OS=Rattus norvegicus GN=Rps27l PE=1 SV=3	sp|P24051|RS27L_RAT	0.000046
sp|Q3KRE0|ATAD3_RAT ATPase family AAA domain-containing protein 3 OS=Rattus norvegicus GN=Atad3 PE=1 SV=1	sp|Q3KRE0|ATAD3_RAT	0.000092
tr|D3ZBT9|D3ZBT9_RAT Protein Ppp6r3 OS=Rattus norvegicus GN=Ppp6r3 PE=1 SV=2	tr|D3ZBT9|D3ZBT9_RAT (+1)	0.000046
tr|A0A0G2K736|A0A0G2K736_RAT Protein Kdm1a OS=Rattus norvegicus GN=Kdm1a PE=1 SV=1	tr|A0A0G2K736|A0A0G2K736_RAT	0.000046
tr|B1WBU2|B1WBU2_RAT LOC682033 protein OS=Rattus norvegicus GN=Ppp2r3b PE=2 SV=1	tr|B1WBU2|B1WBU2_RAT	0.00014
tr|D4ADC2|D4ADC2_RAT Protein Helz2 OS=Rattus norvegicus GN=Helz2 PE=1 SV=2	tr|D4ADC2|D4ADC2_RAT	0.000092
tr|A0A0G2JXD6|A0A0G2JXD6_RAT Protein Hydin OS=Rattus norvegicus GN=Hydin PE=1 SV=1	tr|A0A0G2JXD6|A0A0G2JXD6_RAT	0.000092
sp|Q9HB97|PARVA_RAT Alpha-parvin OS=Rattus norvegicus GN=Parva PE=1 SV=2	sp|Q9HB97|PARVA_RAT (+1)	0.000092
sp|O35821|MBB1A_RAT Myb-binding protein 1A OS=Rattus norvegicus GN=Mybbp1a PE=1 SV=2	sp|O35821|MBB1A_RAT	0
sp|P32089|TXTP_RAT Tricarboxylate transport protein, mitochondrial OS=Rattus norvegicus GN=Slc25a1 PE=1 SV=1	sp|P32089|TXTP_RAT	0.000046
sp|Q5XIM9|TCPB_RAT T-complex protein 1 subunit beta OS=Rattus norvegicus GN=Cct2 PE=1 SV=3	sp|Q5XIM9|TCPB_RAT	0
tr|D4A9N5|D4A9N5_RAT Protein Trim25 OS=Rattus norvegicus GN=Trim25 PE=1 SV=3	tr|D4A9N5|D4A9N5_RAT	0
tr|D4ACB8|D4ACB8_RAT Chaperonin subunit 8 (Theta) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Cct8 PE=1 SV=1	tr|D4ACB8|D4ACB8_RAT	0
tr|M0R7E6|M0R7E6_RAT Protein Srrt OS=Rattus norvegicus GN=Srrt PE=1 SV=2	tr|M0R7E6|M0R7E6_RAT	0.00018
tr|Q66H61|Q66H61_RAT Glutaminyl-tRNA synthetase OS=Rattus norvegicus GN=Qars PE=1 SV=1	tr|Q66H61|Q66H61_RAT	0
tr|B4F772|B4F772_RAT Heat shock 70 kDa protein 4L OS=Rattus norvegicus GN=Hspa4l PE=1 SV=1	tr|B4F772|B4F772_RAT	0.00014
tr|A0A096MK30|A0A096MK30_RAT Moesin OS=Rattus norvegicus GN=Msn PE=1 SV=1	tr|A0A096MK30|A0A096MK30_RAT	0
sp|P62282|RS11_RAT 40S ribosomal protein S11 OS=Rattus norvegicus GN=Rps11 PE=1 SV=3	sp|P62282|RS11_RAT	0.000046
tr|M0R5J4|M0R5J4_RAT Uncharacterized protein OS=Rattus norvegicus PE=3 SV=1	tr|M0R5J4|M0R5J4_RAT (+1)	0
sp|Q60587|ECHB_RAT Trifunctional enzyme subunit beta, mitochondrial OS=Rattus norvegicus GN=Hadhb PE=1 SV=1	sp|Q60587|ECHB_RAT (+1)	0
sp|P28480|TCPA_RAT T-complex protein 1 subunit alpha OS=Rattus norvegicus GN=Tcp1 PE=1 SV=1	sp|P28480|TCPA_RAT	0.000046
sp|P18395|CSDE1_RAT Cold shock domain-containing protein E1 OS=Rattus norvegicus GN=Csde1 PE=2 SV=1	sp|P18395|CSDE1_RAT	0.000046
sp|B2GUV7|IF2P_RAT Eukaryotic translation initiation factor 5B OS=Rattus norvegicus GN=Eif5b PE=1 SV=1	sp|B2GUV7|IF2P_RAT (+2)	0.000092
sp|O08629|TIF1B_RAT Transcription intermediary factor 1-beta OS=Rattus norvegicus GN=Trim28 PE=1 SV=2	sp|O08629|TIF1B_RAT	0.000092
sp|P62755|RS6_RAT 40S ribosomal protein S6 OS=Rattus norvegicus GN=Rps6 PE=1 SV=1	sp|P62755|RS6_RAT (+1)	0.000046
tr|D3ZAS8|D3ZAS8_RAT Protein Sart3 OS=Rattus norvegicus GN=Sart3 PE=1 SV=1	tr|D3ZAS8|D3ZAS8_RAT	0.000046
tr|D3ZFP4|D3ZFP4_RAT DNA helicase OS=Rattus norvegicus GN=Mcm3 PE=1 SV=3	tr|D3ZFP4|D3ZFP4_RAT	0.000092
sp|Q9JMI9|TRPC3_RAT Short transient receptor potential channel 3 OS=Rattus norvegicus GN=Trpc3 PE=2 SV=3	sp|Q9JMI9|TRPC3_RAT (+2)	0.000092
tr|A0A0G2K3U1|A0A0G2K3U1_RAT AMP deaminase 2 OS=Rattus norvegicus GN=Ampd2 PE=1 SV=1	tr|A0A0G2K3U1|A0A0G2K3U1_RAT	0
tr|D4A857|D4A857_RAT Importin 9 (Predicted) OS=Rattus norvegicus GN=Ipo9 PE=1 SV=2	tr|D4A857|D4A857_RAT	0.00014
sp|Q63416|ITIH3_RAT Inter-alpha-trypsin inhibitor heavy chain H3 OS=Rattus norvegicus GN=Itih3 PE=2 SV=1	sp|Q63416|ITIH3_RAT (+1)	0.000092
tr|A0A096MKE9|A0A096MKE9_RAT DNA ligase OS=Rattus norvegicus GN=Lig3 PE=1 SV=1	tr|A0A096MKE9|A0A096MKE9_RAT (+1)	0.000046

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions from unsynchronized PC12 cells

tr|F7EYF1|F7EYF1_RAT E3 ubiquitin-protein ligase OS=Rattus norvegicus GN=Wwp2 PE=1 SV=1	tr|F7EYF1|F7EYF1_RAT	0.00018
tr|F1LVV4|F1LVV4_RAT Protein Rcc2 OS=Rattus norvegicus GN=Rcc2 PE=1 SV=1	tr|F1LVV4|F1LVV4_RAT	0.000046
sp|Q63014|AKAP8_RAT A-kinase anchor protein 8 OS=Rattus norvegicus GN=Akap8 PE=1 SV=1	sp|Q63014|AKAP8_RAT	0
sp|P12346|TRFE_RAT Serotransferrin OS=Rattus norvegicus GN=Tf PE=1 SV=3	sp|P12346|TRFE_RAT (+1)	0.000092
tr|D4AE06|D4AE06_RAT Peptidyl-prolyl cis-trans isomerase OS=Rattus norvegicus GN=Fkbp15 PE=1 SV=3	tr|D4AE06|D4AE06_RAT	0
sp|Q91V33|KHDR1_RAT KH domain-containing, RNA-binding, signal transduction-associated protein 1 OS=Rattus norvegicus GN=Khdrbs1 PE=1 SV=1	sp|Q91V33|KHDR1_RAT	0.000046
sp|Q9EPY0|CARD9_RAT Caspase recruitment domain-containing protein 9 OS=Rattus norvegicus GN=Card9 PE=1 SV=1	sp|Q9EPY0|CARD9_RAT	0.000092
sp|Q62839|GOGA2_RAT Golgin subfamily A member 2 OS=Rattus norvegicus GN=Golga2 PE=1 SV=4	sp|Q62839|GOGA2_RAT (+1)	0.000046
sp|P0C0S7|H2AZ_RAT Histone H2A.Z OS=Rattus norvegicus GN=H2afz PE=1 SV=2	sp|P0C0S7|H2AZ_RAT (+2)	0.000092
tr|D3ZN63|D3ZN63_RAT Protein Wdhd1 OS=Rattus norvegicus GN=Wdhd1 PE=4 SV=1	tr|D3ZN63|D3ZN63_RAT	0.000046
sp|Q53UA7|TAOK3_RAT Serine/threonine-protein kinase TAO3 OS=Rattus norvegicus GN=Taok3 PE=1 SV=1	sp|Q53UA7|TAOK3_RAT (+1)	0.000046
tr|C0M4B0|C0M4B0_RAT Matrix metalloproteinase 19 OS=Rattus norvegicus GN=Mmp19 PE=1 SV=1	tr|C0M4B0|C0M4B0_RAT	0.000046
sp|P84245|H33_RAT Histone H3.3 OS=Rattus norvegicus GN=H3f3b PE=1 SV=2	sp|P84245|H33_RAT (+5)	0.000092
tr|A0A0G2KB74|A0A0G2KB74_RAT Protein Dip2a OS=Rattus norvegicus GN=Dip2a PE=1 SV=1	tr|A0A0G2KB74|A0A0G2KB74_RAT (+1)	0.000092
tr|Q6P503|Q6P503_RAT ATPase, H+ transporting, V1 subunit D, isoform CRA_c OS=Rattus norvegicus GN=Atp6v1d PE=1 SV=1	tr|Q6P503|Q6P503_RAT	0.00014
tr|A0A0G2JZ84|A0A0G2JZ84_RAT Protein Epg5 OS=Rattus norvegicus GN=Epg5 PE=1 SV=1	tr|A0A0G2JZ84|A0A0G2JZ84_RAT	0
sp|P16303|CES1D_RAT Carboxylesterase 1D OS=Rattus norvegicus GN=Ces1d PE=1 SV=2	sp|P16303|CES1D_RAT (+3)	0.000092
sp|Q5PPL2|DCNL5_RAT DCN1-like protein 5 OS=Rattus norvegicus GN=Dcun1d5 PE=2 SV=1	sp|Q5PPL2|DCNL5_RAT	0.000046
tr|D4A879|D4A879_RAT Ferritin OS=Rattus norvegicus GN=RGD1561661 PE=3 SV=1	tr|D4A879|D4A879_RAT	0
tr|F1MAD9|F1MAD9_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc4 PE=1 SV=1	tr|F1MAD9|F1MAD9_RAT	0
tr|G3V798|G3V798_RAT Protein Srsf4 OS=Rattus norvegicus GN=Srsf4 PE=1 SV=1	tr|G3V798|G3V798_RAT	0
Cluster of sp|Q8CH84|ELAV2_RAT ELAV-like protein 2 OS=Rattus norvegicus GN=Elavl2 PE=1 SV=1 (sp|Q8CH84|ELAV2_RAT)	sp|Q8CH84|ELAV2_RAT [2]	0.000046
sp|Q8CH84|ELAV2_RAT ELAV-like protein 2 OS=Rattus norvegicus GN=Elavl2 PE=1 SV=1	sp|Q8CH84|ELAV2_RAT (+1)	0.000046
Cluster of sp|P11884|ALDH2_RAT Aldehyde dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh2 PE=1 SV=1 (sp|P11884|ALDH2_RAT)	sp|P11884|ALDH2_RAT [2]	0
sp|P11884|ALDH2_RAT Aldehyde dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh2 PE=1 SV=1	sp|P11884|ALDH2_RAT (+1)	0
tr|E9PT22|E9PT22_RAT Protein Inf2 OS=Rattus norvegicus GN=Inf2 PE=1 SV=3	tr|E9PT22|E9PT22_RAT	0.00014
tr|M0R9Q1|M0R9Q1_RAT Protein Rbm14 OS=Rattus norvegicus GN=Rbm14 PE=1 SV=1	tr|M0R9Q1|M0R9Q1_RAT	0
sp|P81795|IF2G_RAT Eukaryotic translation initiation factor 2 subunit 3 OS=Rattus norvegicus GN=Eif2s3 PE=1 SV=2	sp|P81795|IF2G_RAT	0
tr|F1LM55|F1LM55_RAT Protein Ccar2 OS=Rattus norvegicus GN=Ccar2 PE=1 SV=1	tr|F1LM55|F1LM55_RAT	0
sp|Q62950|DPYL1_RAT Dihydropyrimidinase-related protein 1 OS=Rattus norvegicus GN=Crmp1 PE=1 SV=1	sp|Q62950|DPYL1_RAT	0
sp|Q8CHN6|SGPL1_RAT Sphingosine-1-phosphate lyase 1 OS=Rattus norvegicus GN=Sgpl1 PE=2 SV=1	sp|Q8CHN6|SGPL1_RAT	0
sp|P16970|ABCD3_RAT ATP-binding cassette sub-family D member 3 OS=Rattus norvegicus GN=Abcd3 PE=1 SV=3	sp|P16970|ABCD3_RAT	0
tr|A0A0G2JYN7|A0A0G2JYN7_RAT Paraspeckle component 1 OS=Rattus norvegicus GN=Pspc1 PE=1 SV=1	tr|A0A0G2JYN7|A0A0G2JYN7_RAT	0
tr|D3ZYQ8|D3ZYQ8_RAT Uridine kinase OS=Rattus norvegicus GN=Uckl1 PE=3 SV=1	tr|D3ZYQ8|D3ZYQ8_RAT	0
tr|F1LZW6|F1LZW6_RAT Protein Slc25a13 OS=Rattus norvegicus GN=Slc25a13 PE=1 SV=2	tr|F1LZW6|F1LZW6_RAT	0.00014
tr|D4AC36|D4AC36_RAT Eukaryotic translation initiation factor 3 subunit F OS=Rattus norvegicus GN=Eif3f PE=1 SV=3	tr|D4AC36|D4AC36_RAT	0
tr|F1M5M9|F1M5M9_RAT Protein Srgap3 OS=Rattus norvegicus GN=Srgap3 PE=1 SV=2	tr|F1M5M9|F1M5M9_RAT	0.000092
sp|P35427|RL13A_RAT 60S ribosomal protein L13a OS=Rattus norvegicus GN=Rpl13a PE=1 SV=2	sp|P35427|RL13A_RAT (+1)	0.000046
sp|P63245|GBLP_RAT Guanine nucleotide-binding protein subunit beta-2-like 1 OS=Rattus norvegicus GN=Gnb2l1 PE=1 SV=3	sp|P63245|GBLP_RAT (+1)	0.000092
sp|P83732|RL24_RAT 60S ribosomal protein L24 OS=Rattus norvegicus GN=Rpl24 PE=2 SV=1	sp|P83732|RL24_RAT (+1)	0.000046
sp|Q5FVC2|ARHG2_RAT Rho guanine nucleotide exchange factor 2 OS=Rattus norvegicus GN=Arhgef2 PE=1 SV=1	sp|Q5FVC2|ARHG2_RAT (+1)	0.000046
tr|A0A0G2K0A8|A0A0G2K0A8_RAT Protein Mia3 OS=Rattus norvegicus GN=Mia3 PE=1 SV=1	tr|A0A0G2K0A8|A0A0G2K0A8_RAT	0
tr|D3ZUK4|D3ZUK4_RAT Protein Trim33 OS=Rattus norvegicus GN=Trim33 PE=1 SV=3	tr|D3ZUK4|D3ZUK4_RAT (+1)	0.000046
tr|F1LML7|F1LML7_RAT Protein Hip1r OS=Rattus norvegicus GN=Hip1r PE=1 SV=1	tr|F1LML7|F1LML7_RAT	0
sp|O08651|SERA_RAT D-3-phosphoglycerate dehydrogenase OS=Rattus norvegicus GN=Phgdh PE=1 SV=3	sp|O08651|SERA_RAT	0
sp|P62914|RL11_RAT 60S ribosomal protein L11 OS=Rattus norvegicus GN=Rpl11 PE=1 SV=2	sp|P62914|RL11_RAT (+1)	0.000046
sp|O08984|LBR_RAT Lamin-B receptor OS=Rattus norvegicus GN=Lbr PE=1 SV=1	sp|O08984|LBR_RAT	0
sp|Q68FQ0|TCPE_RAT T-complex protein 1 subunit epsilon OS=Rattus norvegicus GN=Cct5 PE=1 SV=1	sp|Q68FQ0|TCPE_RAT	0
tr|D4AC23|D4AC23_RAT Protein Cct7 OS=Rattus norvegicus GN=Cct7 PE=1 SV=1	tr|D4AC23|D4AC23_RAT	0
tr|A0A0G2JXZ3|A0A0G2JXZ3_RAT Transcriptional regulator ATRX OS=Rattus norvegicus GN=Atrx PE=1 SV=1	tr|A0A0G2JXZ3|A0A0G2JXZ3_RAT	0.000046
tr|G3V679|G3V679_RAT Transferrin receptor protein 1 OS=Rattus norvegicus GN=Tfrc PE=1 SV=1	tr|G3V679|G3V679_RAT	0.000092
tr|G3V8G5|G3V8G5_RAT Golgi apparatus protein 1 OS=Rattus norvegicus GN=Glg1 PE=1 SV=1	tr|G3V8G5|G3V8G5_RAT	0
tr|D3ZUV3|D3ZUV3_RAT Eukaryotic translation initiation factor 2 subunit 1 OS=Rattus norvegicus GN=Eif2a PE=1 SV=3	tr|D3ZUV3|D3ZUV3_RAT	0
sp|Q6P0K8|PLAK_RAT Junction plakoglobin OS=Rattus norvegicus GN=Jup PE=1 SV=1	sp|Q6P0K8|PLAK_RAT	0.000092
sp|Q68FQ7|RPAP3_RAT RNA polymerase II-associated protein 3 OS=Rattus norvegicus GN=Rpap3 PE=1 SV=1	sp|Q68FQ7|RPAP3_RAT	0.000046
tr|A0A0G2K2J0|A0A0G2K2J0_RAT Protein Shcbp1 OS=Rattus norvegicus GN=Shcbp1 PE=4 SV=1	tr|A0A0G2K2J0|A0A0G2K2J0_RAT	0
tr|D3ZUL9|D3ZUL9_RAT Protein Iqce OS=Rattus norvegicus GN=Iqce PE=4 SV=3	tr|D3ZUL9|D3ZUL9_RAT (+1)	0
sp|Q5M7V8|TR150_RAT Thyroid hormone receptor-associated protein 3 OS=Rattus norvegicus GN=Thrap3 PE=1 SV=1	sp|Q5M7V8|TR150_RAT	0.000092
tr|D3ZJX5|D3ZJX5_RAT Protein Timm50 OS=Rattus norvegicus GN=Timm50 PE=1 SV=2	tr|D3ZJX5|D3ZJX5_RAT	0.000092
sp|Q5XHZ0|TRAP1_RAT Heat shock protein 75 kDa, mitochondrial OS=Rattus norvegicus GN=Trap1 PE=1 SV=1	sp|Q5XHZ0|TRAP1_RAT	0.000046
tr|D4AEG2|D4AEG2_RAT Protein Rab32 OS=Rattus norvegicus GN=Rab32 PE=1 SV=1	tr|D4AEG2|D4AEG2_RAT	0.000092
tr|D3Z8R4|D3Z8R4_RAT Protein Rbm25l1 OS=Rattus norvegicus GN=Rbm25l1 PE=1 SV=3	tr|D3Z8R4|D3Z8R4_RAT	0.000092
tr|M0R4L9|M0R4L9_RAT Protein BC068281 OS=Rattus norvegicus GN=BC068281 PE=4 SV=2	tr|M0R4L9|M0R4L9_RAT	0.000092
sp|Q9EQV9|CBPB2_RAT Carboxypeptidase B2 OS=Rattus norvegicus GN=Cpb2 PE=2 SV=1	sp|Q9EQV9|CBPB2_RAT	0.000046
sp|Q5BK61|SNX20_RAT Sorting nexin-20 OS=Rattus norvegicus GN=Snx20 PE=1 SV=1	sp|Q5BK61|SNX20_RAT	0.00014
tr|F1M6V0|F1M6V0_RAT Protein Nbeal1 OS=Rattus norvegicus GN=Nbeal1 PE=1 SV=3	tr|F1M6V0|F1M6V0_RAT	0.000092
tr|D4A507|D4A507_RAT Protein Clip3 OS=Rattus norvegicus GN=Clip3 PE=1 SV=1	tr|D4A507|D4A507_RAT	0.000092

Fig 1B supplemental

PLCβ1 associated proteins from cytosolic fractions
from unsynchronized PC12 cells

sp|O35142|COPB2_RAT Coatomer subunit beta' OS=Rattus norvegicus GN=Copb2 PE=1 SV=3	sp|O35142|COPB2_RAT	0.000046
Cluster of tr|Q9QX80|Q9QX80_RAT CArG-binding factor A OS=Rattus norvegicus GN=Hnrnpab PE=1 SV=1 (tr|Q9QX80|Q9QX80_RAT)	tr|Q9QX80|Q9QX80_RAT [2]	0
tr|Q9QX80|Q9QX80_RAT CArG-binding factor A OS=Rattus norvegicus GN=Hnrnpab PE=1 SV=1	tr|Q9QX80|Q9QX80_RAT (+1)	0
sp|Q03555-3|GEPH_RAT Isoform 2 of Gephyrin OS=Rattus norvegicus GN=Gphn	sp|Q03555-3|GEPH_RAT (+4)	0
sp|Q3KR59|UBP10_RAT Ubiquitin carboxyl-terminal hydrolase 10 OS=Rattus norvegicus GN=Usp10 PE=1 SV=1	sp|Q3KR59|UBP10_RAT	0
tr|A0A0G2JVC2|A0A0G2JVC2_RAT Protein Scyl2 OS=Rattus norvegicus GN=Scyl2 PE=1 SV=1	tr|A0A0G2JVC2|A0A0G2JVC2_RAT (+1)	0
tr|B2GV15|B2GV15_RAT Dihydrolipoamide branched chain transacylase E2 OS=Rattus norvegicus GN=Dbt PE=1 SV=1	tr|B2GV15|B2GV15_RAT	0
tr|G3V8T7|G3V8T7_RAT Protein Tdrkh OS=Rattus norvegicus GN=Tdrkh PE=1 SV=1	tr|G3V8T7|G3V8T7_RAT	0
tr|Q6P685|Q6P685_RAT Eukaryotic translation initiation factor 2, subunit 2 (Beta) OS=Rattus norvegicus GN=Eif2s2 PE=1 SV=1	tr|Q6P685|Q6P685_RAT	0
tr|Q80ZA3|Q80ZA3_RAT Alpha-2 antiplasmin OS=Rattus norvegicus GN=Serpinf1 PE=1 SV=1	tr|Q80ZA3|Q80ZA3_RAT	0.000092
sp|Q63716|PRDX1_RAT Peroxiredoxin-1 OS=Rattus norvegicus GN=Prdx1 PE=1 SV=1	sp|Q63716|PRDX1_RAT (+1)	0
sp|Q71UF4|RBBP7_RAT Histone-binding protein RBBP7 OS=Rattus norvegicus GN=Rbbp7 PE=2 SV=1	sp|Q71UF4|RBBP7_RAT (+2)	0
tr|F1LQP9|F1LQP9_RAT Protein Tnpo1 OS=Rattus norvegicus GN=Tnpo1 PE=1 SV=3	tr|F1LQP9|F1LQP9_RAT	0
tr|F2Z3T9|F2Z3T9_RAT Protein U2af2 OS=Rattus norvegicus GN=U2af2 PE=1 SV=1	tr|F2Z3T9|F2Z3T9_RAT	0
tr|F1M9V7|F1M9V7_RAT Protein Npepps OS=Rattus norvegicus GN=Npepps PE=1 SV=1	tr|F1M9V7|F1M9V7_RAT	0
tr|F1M7Q7|F1M7Q7_RAT Protein Otud4 OS=Rattus norvegicus GN=Otud4 PE=1 SV=2	tr|F1M7Q7|F1M7Q7_RAT	0
tr|D3ZJT4|D3ZJT4_RAT 60S acidic ribosomal protein P0 OS=Rattus norvegicus GN=RGD1564469 PE=3 SV=3	tr|D3ZJT4|D3ZJT4_RAT	0
tr|Q5U2S7|Q5U2S7_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 3 OS=Rattus norvegicus GN=Psmd3 PE=1 SV=1	tr|Q5U2S7|Q5U2S7_RAT	0
tr|D3Z9L5|D3Z9L5_RAT Protein Wdr11 OS=Rattus norvegicus GN=Wdr11 PE=1 SV=2	tr|D3Z9L5|D3Z9L5_RAT	0.000092
tr|A0A0G2K7K9|A0A0G2K7K9_RAT Protein Camsap2 OS=Rattus norvegicus GN=Camsap2 PE=1 SV=1	tr|A0A0G2K7K9|A0A0G2K7K9_RAT (+1)	0
tr|A0A0G2K8M3|A0A0G2K8M3_RAT Protein Tjp3 OS=Rattus norvegicus GN=Tjp3 PE=1 SV=1	tr|A0A0G2K8M3|A0A0G2K8M3_RAT (+1)	0
sp|Q66H86|OLFL1_RAT Olfactomedin-like protein 1 OS=Rattus norvegicus GN=Olfml1 PE=2 SV=1	sp|Q66H86|OLFL1_RAT	0.000092
tr|A0A0H2UHZ4|A0A0H2UHZ4_RAT Zinc finger Ran-binding domain-containing protein 2 OS=Rattus norvegicus GN=Zranb2 PE=1 SV=1	tr|A0A0H2UHZ4|A0A0H2UHZ4_RAT	0
sp|P11598|PDIA3_RAT Protein disulfide-isomerase A3 OS=Rattus norvegicus GN=Pdia3 PE=1 SV=2	sp|P11598|PDIA3_RAT (+1)	0
tr|A0A0G2K8Z9|A0A0G2K8Z9_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif13b PE=1 SV=1	tr|A0A0G2K8Z9|A0A0G2K8Z9_RAT (+1)	0

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

Identified Proteins (2362)	Accession Number	% of Total Spectra
tr|M0R9X8|M0R9X8_RAT Cytoplasmic dynein 1 heavy chain 1 OS=Rattus norvegicus GN=Dync1h1 PE=1 SV=2	tr|M0R9X8|M0R9X8_RAT	0.0045
Cluster of tr|G3V9Y1|G3V9Y1_RAT Myosin, heavy polypeptide 10, non-muscle, isoform CRA_b OS=Rattus norvegicus GN=Myh10 PE=1 SV=1 (tr|G3V9Y1|G3V9Y1_RAT	tr|G3V9Y1|G3V9Y1_RAT [3]	0.0046
tr|G3V9Y1|G3V9Y1_RAT Myosin, heavy polypeptide 10, non-muscle, isoform CRA_b OS=Rattus norvegicus GN=Myh10 PE=1 SV=1	tr|G3V9Y1|G3V9Y1_RAT	0.0028
tr|G3V6P7|G3V6P7_RAT Myosin, heavy polypeptide 9, non-muscle OS=Rattus norvegicus GN=Myh9 PE=1 SV=1	tr|G3V6P7|G3V6P7_RAT	0.002
tr|F1LNF0|F1LNF0_RAT Protein Myh14 OS=Rattus norvegicus GN=Myh14 PE=1 SV=1	tr|F1LNF0|F1LNF0_RAT	0.00052
sp|P10719|ATPB_RAT ATP synthase subunit beta, mitochondrial OS=Rattus norvegicus GN=Atp5b PE=1 SV=2	sp|P10719|ATPB_RAT (+1)	0.0039
Cluster of sp|P68136|ACTS_RAT Actin, alpha skeletal muscle OS=Rattus norvegicus GN=Acta1 PE=1 SV=1 (sp|P68136|ACTS_RAT)	sp|P68136|ACTS_RAT [3]	0.0036
sp|P68136|ACTS_RAT Actin, alpha skeletal muscle OS=Rattus norvegicus GN=Acta1 PE=1 SV=1	sp|P68136|ACTS_RAT	0.0012
sp|P60711|ACTB_RAT Actin, cytoplasmic 1 OS=Rattus norvegicus GN=Actb PE=1 SV=1	sp|P60711|ACTB_RAT	0.0031
tr|V9GZ85|V9GZ85_RAT Actin, cytoplasmic 2 OS=Rattus norvegicus GN=Actg1 PE=3 SV=2	tr|V9GZ85|V9GZ85_RAT	0.0031
sp|P05197|EF2_RAT Elongation factor 2 OS=Rattus norvegicus GN=Eef2 PE=1 SV=4	sp|P05197|EF2_RAT	0.0034
Cluster of tr|A0A0G2JZ69|A0A0G2JZ69_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=1 (tr|A0A0G2JZ69|A0A0G2JZ69_RAT)	tr|A0A0G2JZ69|A0A0G2JZ69_RAT [2]	0.0035
tr|A0A0G2JZ69|A0A0G2JZ69_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=1	tr|A0A0G2JZ69|A0A0G2JZ69_RAT	0.0034
tr|Q6IRK8|Q6IRK8_RAT Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=1	tr|Q6IRK8|Q6IRK8_RAT	0.0033
tr|F1M779|F1M779_RAT Clathrin heavy chain OS=Rattus norvegicus GN=Cltc PE=1 SV=1	tr|F1M779|F1M779_RAT	0.0031
sp|P15999|ATPA_RAT ATP synthase subunit alpha, mitochondrial OS=Rattus norvegicus GN=Atp5a1 PE=1 SV=2	sp|P15999|ATPA_RAT	0.0029
Cluster of sp|P11980-2|KPYM_RAT Isoform M2 of Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm (sp|P11980-2|KPYM_RAT)	sp|P11980-2|KPYM_RAT [2]	0.0027
sp|P11980-2|KPYM_RAT Isoform M2 of Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm	sp|P11980-2|KPYM_RAT	0.0027
sp|P11980|KPYM_RAT Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm PE=1 SV=3	sp|P11980|KPYM_RAT	0.0025
Cluster of sp|P04797|G3P_RAT Glyceraldehyde-3-phosphate dehydrogenase OS=Rattus norvegicus GN=Gapdh PE=1 SV=3 (sp|P04797|G3P_RAT)	sp|P04797|G3P_RAT [2]	0.0022
sp|P04797|G3P_RAT Glyceraldehyde-3-phosphate dehydrogenase OS=Rattus norvegicus GN=Gapdh PE=1 SV=3	sp|P04797|G3P_RAT	0.0022
tr|E9PTN6|E9PTN6_RAT Glyceraldehyde-3-phosphate dehydrogenase OS=Rattus norvegicus PE=3 SV=1	tr|E9PTN6|E9PTN6_RAT	0.00095
Cluster of sp|P69897|TBB5_RAT Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1 (sp|P69897|TBB5_RAT)	sp|P69897|TBB5_RAT [6]	0.0022
sp|P69897|TBB5_RAT Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1	sp|P69897|TBB5_RAT	0.0016
tr|Q4QQV0|Q4QQV0_RAT Protein Tubb6 OS=Rattus norvegicus GN=Tubb6 PE=1 SV=1	tr|Q4QQV0|Q4QQV0_RAT	0.0009
sp|Q4QRB4|TBB3_RAT Tubulin beta-3 chain OS=Rattus norvegicus GN=Tubb3 PE=1 SV=1	sp|Q4QRB4|TBB3_RAT	0.0012
tr|B4F7C2|B4F7C2_RAT Protein Tubb4a OS=Rattus norvegicus GN=Tubb4a PE=1 SV=1	tr|B4F7C2|B4F7C2_RAT	0.0013
sp|P85108|TBB2A_RAT Tubulin beta-2A chain OS=Rattus norvegicus GN=Tubb2a PE=1 SV=1	sp|P85108|TBB2A_RAT	0.0014
tr|G3V7C6|G3V7C6_RAT Tubulin beta-4B chain OS=Rattus norvegicus GN=Tubb4b PE=1 SV=2	tr|G3V7C6|G3V7C6_RAT	0.0016
Cluster of tr|A0A0G2K8W9|A0A0G2K8W9_RAT Protein Sptbn1 OS=Rattus norvegicus GN=Sptbn1 PE=1 SV=1 (tr|A0A0G2K8W9|A0A0G2K8W9_RAT)	tr|A0A0G2K8W9|A0A0G2K8W9_RAT [2]	0.0023
tr|A0A0G2K8W9|A0A0G2K8W9_RAT Protein Sptbn1 OS=Rattus norvegicus GN=Sptbn1 PE=1 SV=1	tr|A0A0G2K8W9|A0A0G2K8W9_RAT (+1)	0.0023
sp|Q10758|K2C8_RAT Keratin, type II cytoskeletal 8 OS=Rattus norvegicus GN=Krt8 PE=1 SV=3	sp|Q10758|K2C8_RAT	0.0024
Cluster of sp|P06685|AT1A1_RAT Sodium/potassium-transporting ATPase subunit alpha-1 OS=Rattus norvegicus GN=Atp1a1 PE=1 SV=1 (sp|P06685|AT1A1_RAT)	sp|P06685|AT1A1_RAT [2]	0.0019
sp|P06685|AT1A1_RAT Sodium/potassium-transporting ATPase subunit alpha-1 OS=Rattus norvegicus GN=Atp1a1 PE=1 SV=1	sp|P06685|AT1A1_RAT	0.0018
sp|P06687|AT1A3_RAT Sodium/potassium-transporting ATPase subunit alpha-3 OS=Rattus norvegicus GN=Atp1a3 PE=1 SV=2	sp|P06687|AT1A3_RAT	0.00097
sp|P63039|CH60_RAT 60 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspd1 PE=1 SV=1	sp|P63039|CH60_RAT	0.0019
sp|P04177|TY3H_RAT Tyrosine 3-monooxygenase OS=Rattus norvegicus GN=Th PE=1 SV=3	sp|P04177|TY3H_RAT	0.0018
sp|P34058|HS90B_RAT Heat shock protein HSP 90-beta OS=Rattus norvegicus GN=Hsp90ab1 PE=1 SV=4	sp|P34058|HS90B_RAT	0.0032
sp|P52873|PYC_RAT Pyruvate carboxylase, mitochondrial OS=Rattus norvegicus GN=Pc PE=1 SV=2	sp|P52873|PYC_RAT (+1)	0.0016
Cluster of sp|Q9Z1P2|ACTN1_RAT Alpha-actinin-1 OS=Rattus norvegicus GN=Actn1 PE=1 SV=1 (sp|Q9Z1P2|ACTN1_RAT)	sp|Q9Z1P2|ACTN1_RAT [4]	0.0018
sp|Q9Z1P2|ACTN1_RAT Alpha-actinin-1 OS=Rattus norvegicus GN=Actn1 PE=1 SV=1	sp|Q9Z1P2|ACTN1_RAT (+1)	0.0014
sp|Q9QXQ0|ACTN4_RAT Alpha-actinin-4 OS=Rattus norvegicus GN=Actn4 PE=1 SV=2	sp|Q9QXQ0|ACTN4_RAT (+1)	0.00092
Cluster of sp|P68370|TBA1A_RAT Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1 (sp|P68370|TBA1A_RAT)	sp|P68370|TBA1A_RAT [5]	0.0014
sp|P68370|TBA1A_RAT Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1	sp|P68370|TBA1A_RAT	0.0011
sp|Q5XIF6|TBA4A_RAT Tubulin alpha-4A chain OS=Rattus norvegicus GN=Tuba4a PE=1 SV=1	sp|Q5XIF6|TBA4A_RAT	0.001
tr|F1LUM5|F1LUM5_RAT Protein Tubal3 OS=Rattus norvegicus GN=Tubal3 PE=1 SV=2	tr|F1LUM5|F1LUM5_RAT	0.00017
sp|Q6AYZ1|TBA1C_RAT Tubulin alpha-1C chain OS=Rattus norvegicus GN=Tuba1c PE=1 SV=1	sp|Q6AYZ1|TBA1C_RAT (+1)	0.001
sp|P46462|TERA_RAT Transitional endoplasmic reticulum ATPase OS=Rattus norvegicus GN=Vcp PE=1 SV=3	sp|P46462|TERA_RAT	0.0014
sp|Q5BJY9|K1C18_RAT Keratin, type I cytoskeletal 18 OS=Rattus norvegicus GN=Krt18 PE=1 SV=3	sp|Q5BJY9|K1C18_RAT	0.0015
Cluster of sp|P63018|HSP7C_RAT Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1 (sp|P63018|HSP7C_RAT)	sp|P63018|HSP7C_RAT	0.0013
sp|P63018|HSP7C_RAT Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1	sp|P63018|HSP7C_RAT	0.0013
tr|F1LRI5|F1LRI5_RAT Protein Gcn1l1 OS=Rattus norvegicus GN=Gcn1l1 PE=1 SV=3	tr|F1LRI5|F1LRI5_RAT	0.0015
Cluster of tr|G3V7Q7|G3V7Q7_RAT IQ motif containing GTPase activating protein 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Iqgap1 PE=1 SV=1 (tr|G3V7	tr|G3V7Q7|G3V7Q7_RAT	0.0013
tr|G3V7Q7|G3V7Q7_RAT IQ motif containing GTPase activating protein 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Iqgap1 PE=1 SV=1	tr|G3V7Q7|G3V7Q7_RAT	0.0013
Cluster of sp|Q05962|ADT1_RAT ADP/ATP translocase 1 OS=Rattus norvegicus GN=Slc25a4 PE=1 SV=3 (sp|Q05962|ADT1_RAT)	sp|Q05962|ADT1_RAT [3]	0.0013
sp|Q05962|ADT1_RAT ADP/ATP translocase 1 OS=Rattus norvegicus GN=Slc25a4 PE=1 SV=3	sp|Q05962|ADT1_RAT (+1)	0.00095
sp|Q09073|ADT2_RAT ADP/ATP translocase 2 OS=Rattus norvegicus GN=Slc25a5 PE=1 SV=3	sp|Q09073|ADT2_RAT	0.00087
sp|Q9Z1X1|ESYT1_RAT Extended synaptotagmin-1 OS=Rattus norvegicus GN=Esyt1 PE=1 SV=1	sp|Q9Z1X1|ESYT1_RAT	0.0014
Cluster of tr|B0BMW0|B0BMW0_RAT RAB14, member RAS oncogene family OS=Rattus norvegicus GN=Rab14 PE=1 SV=1 (tr|B0BMW0|B0BMW0_RAT)	tr|B0BMW0|B0BMW0_RAT [11]	0.0014
tr|B0BMW0|B0BMW0_RAT RAB14, member RAS oncogene family OS=Rattus norvegicus GN=Rab14 PE=1 SV=1	tr|B0BMW0|B0BMW0_RAT	0.00047
tr|Q5RKJ9|Q5RKJ9_RAT RAB10, member RAS oncogene family OS=Rattus norvegicus GN=Rab10 PE=1 SV=1	tr|Q5RKJ9|Q5RKJ9_RAT	0.00032
sp|Q6NYB7|RAB1A_RAT Ras-related protein Rab-1A OS=Rattus norvegicus GN=Rab1A PE=1 SV=3	sp|Q6NYB7|RAB1A_RAT	0.00037
sp|P62824|RAB3C_RAT Ras-related protein Rab-3C OS=Rattus norvegicus GN=Rab3c PE=1 SV=1	sp|P62824|RAB3C_RAT	0.00032
sp|P10536|RAB1B_RAT Ras-related protein Rab-1B OS=Rattus norvegicus GN=Rab1b PE=1 SV=1	sp|P10536|RAB1B_RAT (+1)	0.00035

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|P63012|RAB3A_RAT Ras-related protein Rab-3A OS=Rattus norvegicus GN=Rab3a PE=1 SV=1	sp|P63012|RAB3A_RAT	0.00027
tr|F8V328|F8V328_RAT RAB8 OS=Rattus norvegicus GN=Rab8a PE=1 SV=1	tr|F8V328|F8V328_RAT	0.00025
sp|Q63942|RAB3D_RAT GTP-binding protein Rab-3D OS=Rattus norvegicus GN=Rab3d PE=1 SV=2	sp|Q63942|RAB3D_RAT	0.0003
tr|D4ADS8|D4ADS8_RAT Ras-related protein Rab-4A OS=Rattus norvegicus GN=Rab4a PE=1 SV=2	tr|D4ADS8|D4ADS8_RAT	0.00012
sp|P51146|RAB4B_RAT Ras-related protein Rab-4B OS=Rattus norvegicus GN=Rab4b PE=2 SV=1	sp|P51146|RAB4B_RAT	0.0001
Cluster of tr|A0A0G2JXE0|A0A0G2JXE0_RAT Histone H2B OS=Rattus norvegicus GN=LOC102549061 PE=3 SV=1 (tr|A0A0G2JXE0|A0A0G2JXE0_RAT)	tr|A0A0G2JXE0|A0A0G2JXE0_RAT [8]	0.0011
tr|A0A0G2JXE0|A0A0G2JXE0_RAT Histone H2B OS=Rattus norvegicus GN=LOC102549061 PE=3 SV=1	tr|A0A0G2JXE0|A0A0G2JXE0_RAT (+6)	0.0011
tr|D4A817|D4A817_RAT Histone H2B OS=Rattus norvegicus GN=Hist2h2be PE=3 SV=3	tr|D4A817|D4A817_RAT	0.0011
sp|P06761|GRP78_RAT 78 kDa glucose-regulated protein OS=Rattus norvegicus GN=Hspa5 PE=1 SV=1	sp|P06761|GRP78_RAT	0.0013
tr|F1LM33|F1LM33_RAT Leucine-rich PPR motif-containing protein, mitochondrial OS=Rattus norvegicus GN=Lrpprc PE=1 SV=2	tr|F1LM33|F1LM33_RAT	0.0012
tr|F1M953|F1M953_RAT Stress-70 protein, mitochondrial OS=Rattus norvegicus GN=Hspa9 PE=1 SV=1	tr|F1M953|F1M953_RAT	0.0012
tr|C0JPT7|C0JPT7_RAT Filamin alpha OS=Rattus norvegicus GN=Flna PE=1 SV=1	tr|C0JPT7|C0JPT7_RAT	0.0012
sp|P00388|NCPR_RAT NADPH--cytochrome P450 reductase OS=Rattus norvegicus GN=Por PE=1 SV=3	sp|P00388|NCPR_RAT	0.0013
Cluster of sp|Q66X93|SND1_RAT Staphylococcal nuclease domain-containing protein 1 OS=Rattus norvegicus GN=Snd1 PE=1 SV=1 (sp|Q66X93|SND1_RAT)	sp|Q66X93|SND1_RAT	0.0012
sp|Q66X93|SND1_RAT Staphylococcal nuclease domain-containing protein 1 OS=Rattus norvegicus GN=Snd1 PE=1 SV=1	sp|Q66X93|SND1_RAT	0.0012
sp|P82995|HS90A_RAT Heat shock protein HSP 90-alpha OS=Rattus norvegicus GN=Hsp90aa1 PE=1 SV=3	sp|P82995|HS90A_RAT	0.0025
sp|Q5XIM9|TCPB_RAT T-complex protein 1 subunit beta OS=Rattus norvegicus GN=Cct2 PE=1 SV=3	sp|Q5XIM9|TCPB_RAT	0.0011
sp|Q66HD0|ENPL_RAT Endoplasmin OS=Rattus norvegicus GN=Hsp90b1 PE=1 SV=2	sp|Q66HD0|ENPL_RAT (+1)	0.0014
Cluster of tr|Q6P3V8|Q6P3V8_RAT Eukaryotic translation initiation factor 4A1 OS=Rattus norvegicus GN=Eif4a1 PE=1 SV=1 (tr|Q6P3V8|Q6P3V8_RAT)	tr|Q6P3V8|Q6P3V8_RAT [2]	0.001
tr|Q6P3V8|Q6P3V8_RAT Eukaryotic translation initiation factor 4A1 OS=Rattus norvegicus GN=Eif4a1 PE=1 SV=1	tr|Q6P3V8|Q6P3V8_RAT	0.00092
sp|Q5RKI1|IF4A2_RAT Eukaryotic initiation factor 4A-II OS=Rattus norvegicus GN=Eif4a2 PE=1 SV=1	sp|Q5RKI1|IF4A2_RAT	0.00055
sp|Q9JLA3|UGGG1_RAT UDP-glucose:glycoprotein glucosyltransferase 1 OS=Rattus norvegicus GN=Uggt1 PE=1 SV=2	sp|Q9JLA3|UGGG1_RAT	0.0012
sp|Q9Z2L0|VDAC1_RAT Voltage-dependent anion-selective channel protein 1 OS=Rattus norvegicus GN=Vdac1 PE=1 SV=4	sp|Q9Z2L0|VDAC1_RAT	0.001
tr|G3V6T1|G3V6T1_RAT Coatomer subunit alpha OS=Rattus norvegicus GN=Copa PE=1 SV=1	tr|G3V6T1|G3V6T1_RAT	0.001
sp|P11598|PDIA3_RAT Protein disulfide-isomerase A3 OS=Rattus norvegicus GN=Pdia3 PE=1 SV=2	sp|P11598|PDIA3_RAT (+1)	0.001
sp|Q9ER34|ACON_RAT Aconitate hydratase, mitochondrial OS=Rattus norvegicus GN=Aco2 PE=1 SV=2	sp|Q9ER34|ACON_RAT	0.001
sp|P62630|EF1A1_RAT Elongation factor 1-alpha 1 OS=Rattus norvegicus GN=Eef1a1 PE=2 SV=1	sp|P62630|EF1A1_RAT	0.0015
sp|P35565|CALX_RAT Calnexin OS=Rattus norvegicus GN=Canx PE=1 SV=1	sp|P35565|CALX_RAT	0.0009
tr|A0A0G2K5E7|A0A0G2K5E7_RAT ATP-citrate synthase OS=Rattus norvegicus GN=Acly PE=1 SV=1	tr|A0A0G2K5E7|A0A0G2K5E7_RAT (+1)	0.0011
tr|D4AC23|D4AC23_RAT Protein Cct7 OS=Rattus norvegicus GN=Cct7 PE=1 SV=1	tr|D4AC23|D4AC23_RAT	0.001
sp|P25235|RPN2_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 OS=Rattus norvegicus GN=Rpn2 PE=2 SV=2	sp|P25235|RPN2_RAT (+1)	0.001
sp|Q1JU68|EIF3A_RAT Eukaryotic translation initiation factor 3 subunit A OS=Rattus norvegicus GN=Eif3a PE=2 SV=2	sp|Q1JU68|EIF3A_RAT	0.00097
sp|Q64428|ECHA_RAT Trifunctional enzyme subunit alpha, mitochondrial OS=Rattus norvegicus GN=Hadha PE=1 SV=2	sp|Q64428|ECHA_RAT	0.00097
tr|D4ACB8|D4ACB8_RAT Chaperonin subunit 8 (Theta) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Cct8 PE=1 SV=1	tr|D4ACB8|D4ACB8_RAT	0.001
sp|P04636|MDHM_RAT Malate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Mdh2 PE=1 SV=2	sp|P04636|MDHM_RAT	0.001
sp|Q68FQ0|TCPE_RAT T-complex protein 1 subunit epsilon OS=Rattus norvegicus GN=Cct5 PE=1 SV=1	sp|Q68FQ0|TCPE_RAT	0.0011
tr|Q6S3A0|Q6S3A0_RAT Plectin OS=Rattus norvegicus GN=Plec PE=1 SV=1	tr|Q6S3A0|Q6S3A0_RAT	0.00087
Cluster of tr|Q3MHS9|Q3MHS9_RAT Chaperonin containing Tcp1, subunit 6A (Zeta 1) OS=Rattus norvegicus GN=Cct6a PE=1 SV=1 (tr|Q3MHS9|Q3MHS9_RAT)	tr|Q3MHS9|Q3MHS9_RAT	0.00097
tr|Q3MHS9|Q3MHS9_RAT Chaperonin containing Tcp1, subunit 6A (Zeta 1) OS=Rattus norvegicus GN=Cct6a PE=1 SV=1	tr|Q3MHS9|Q3MHS9_RAT	0.00097
sp|P62804|H4_RAT Histone H4 OS=Rattus norvegicus GN=Hist1h4b PE=1 SV=2	sp|P62804|H4_RAT	0.0008
Cluster of sp|Q07936|ANXA2_RAT Annexin A2 OS=Rattus norvegicus GN=Anxa2 PE=1 SV=2 (sp|Q07936|ANXA2_RAT)	sp|Q07936|ANXA2_RAT	0.0009
sp|Q07936|ANXA2_RAT Annexin A2 OS=Rattus norvegicus GN=Anxa2 PE=1 SV=2	sp|Q07936|ANXA2_RAT	0.0009
Cluster of sp|Q2PQA9|KINH_RAT Kinesin-1 heavy chain OS=Rattus norvegicus GN=Kif5b PE=1 SV=1 (sp|Q2PQA9|KINH_RAT)	sp|Q2PQA9|KINH_RAT [2]	0.00082
sp|Q2PQA9|KINH_RAT Kinesin-1 heavy chain OS=Rattus norvegicus GN=Kif5b PE=1 SV=1	sp|Q2PQA9|KINH_RAT	0.00052
tr|G3V6L4|G3V6L4_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif5c PE=1 SV=3	tr|G3V6L4|G3V6L4_RAT	0.0004
tr|D4A133|D4A133_RAT Protein Atp6v1a OS=Rattus norvegicus GN=Atp6v1a PE=1 SV=1	tr|D4A133|D4A133_RAT	0.0009
Cluster of sp|P04642|LDHA_RAT L-lactate dehydrogenase A chain OS=Rattus norvegicus GN=Ldha PE=1 SV=1 (sp|P04642|LDHA_RAT)	sp|P04642|LDHA_RAT	0.00075
sp|P04642|LDHA_RAT L-lactate dehydrogenase A chain OS=Rattus norvegicus GN=Ldha PE=1 SV=1	sp|P04642|LDHA_RAT	0.00075
sp|P62909|RS3_RAT 40S ribosomal protein S3 OS=Rattus norvegicus GN=Rps3 PE=1 SV=1	sp|P62909|RS3_RAT	0.00095
sp|Q3MIE4|VAT1_RAT Synaptic vesicle membrane protein VAT-1 homolog OS=Rattus norvegicus GN=Vat1 PE=1 SV=1	sp|Q3MIE4|VAT1_RAT	0.00072
sp|Q63617|HYOU1_RAT Hypoxia up-regulated protein 1 OS=Rattus norvegicus GN=Hyou1 PE=1 SV=1	sp|Q63617|HYOU1_RAT (+1)	0.00077
Cluster of tr|G3V6Y6|G3V6Y6_RAT Alpha-1,4 glucan phosphorylase OS=Rattus norvegicus GN=Pygb PE=1 SV=2 (tr|G3V6Y6|G3V6Y6_RAT)	tr|G3V6Y6|G3V6Y6_RAT	0.00082
tr|G3V6Y6|G3V6Y6_RAT Alpha-1,4 glucan phosphorylase OS=Rattus norvegicus GN=Pygb PE=1 SV=2	tr|G3V6Y6|G3V6Y6_RAT	0.0008
sp|P00507|AATM_RAT Aspartate aminotransferase, mitochondrial OS=Rattus norvegicus GN=Got2 PE=1 SV=2	sp|P00507|AATM_RAT	0.0008
tr|F1LX07|F1LX07_RAT Protein Slc25a12 OS=Rattus norvegicus GN=Slc25a12 PE=1 SV=3	tr|F1LX07|F1LX07_RAT	0.00087
sp|P28480|TCPA_RAT T-complex protein 1 subunit alpha OS=Rattus norvegicus GN=Tcp1 PE=1 SV=1	sp|P28480|TCPA_RAT	0.00075
sp|Q5U300|UBA1_RAT Ubiquitin-like modifier-activating enzyme 1 OS=Rattus norvegicus GN=Uba1 PE=1 SV=1	sp|Q5U300|UBA1_RAT	0.00082
sp|Q6P502|TCPG_RAT T-complex protein 1 subunit gamma OS=Rattus norvegicus GN=Cct3 PE=1 SV=1	sp|Q6P502|TCPG_RAT	0.0007
Cluster of sp|P04897|GNAI2_RAT Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Rattus norvegicus GN=Gnai2 PE=1 SV=3 (sp|P04897|GNAI2_RAT)	sp|P04897|GNAI2_RAT [5]	0.00082
sp|P04897|GNAI2_RAT Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Rattus norvegicus GN=Gnai2 PE=1 SV=3	sp|P04897|GNAI2_RAT	0.00032
sp|P59215|GNAO_RAT Guanine nucleotide-binding protein G(o) subunit alpha OS=Rattus norvegicus GN=Gnao1 PE=1 SV=2	sp|P59215|GNAO_RAT	0.00032
sp|P08753|GNAI3_RAT Guanine nucleotide-binding protein G(k) subunit alpha OS=Rattus norvegicus GN=Gnai3 PE=1 SV=3	sp|P08753|GNAI3_RAT	0.00022
sp|Q63803|GNAS1_RAT Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas OS=Rattus norvegicus GN=Gnas PE=1 SV=3	sp|Q63803|GNAS1_RAT	0.00015
sp|P63095|GNAS2_RAT Guanine nucleotide-binding protein G(s) subunit alpha isoforms short OS=Rattus norvegicus GN=Gnas PE=1 SV=1	sp|P63095|GNAS2_RAT	0.00012
sp|P10860|DHE3_RAT Glutamate dehydrogenase 1, mitochondrial OS=Rattus norvegicus GN=Glud1 PE=1 SV=2	sp|P10860|DHE3_RAT	0.0008

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

Cluster of sp|P11507|AT2A2_RAT Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 OS=Rattus norvegicus GN=Atp2a2 PE=1 SV=1 (sp|P11507|AT2A2_RAT)	sp|P11507|AT2A2_RAT [2]	0.00077
sp|P11507|AT2A2_RAT Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 OS=Rattus norvegicus GN=Atp2a2 PE=1 SV=1	sp|P11507|AT2A2_RAT (+1)	0.00077
sp|P30835|PFKAL_RAT ATP-dependent 6-phosphofructokinase, liver type OS=Rattus norvegicus GN=Pfkl PE=1 SV=3	sp|P30835|PFKAL_RAT	0.00092
sp|P97536|CAND1_RAT Cullin-associated NEDD8-dissociated protein 1 OS=Rattus norvegicus GN=Cand1 PE=1 SV=1	sp|P97536|CAND1_RAT	0.00082
tr|G3V9Z3|G3V9Z3_RAT Amine oxidase [flavin-containing] OS=Rattus norvegicus GN=Maoa PE=1 SV=1	tr|G3V9Z3|G3V9Z3_RAT	0.00077
Cluster of sp|O35832|CKD18_RAT Cyclin-dependent kinase 18 OS=Rattus norvegicus GN=Cdk18 PE=1 SV=1 (sp|O35832|CKD18_RAT)	sp|O35832|CKD18_RAT [6]	0.00087
sp|O35832|CKD18_RAT Cyclin-dependent kinase 18 OS=Rattus norvegicus GN=Cdk18 PE=1 SV=1	sp|O35832|CKD18_RAT (+1)	0.00055
sp|P39951|CDK1_RAT Cyclin-dependent kinase 1 OS=Rattus norvegicus GN=Cdk1 PE=1 SV=1	sp|P39951|CDK1_RAT	0.0003
sp|Q63699|CDK2_RAT Cyclin-dependent kinase 2 OS=Rattus norvegicus GN=Cdk2 PE=1 SV=1	sp|Q63699|CDK2_RAT (+1)	0.0001
tr|F1MA87|F1MA87_RAT Cyclin-dependent kinase 6 OS=Rattus norvegicus GN=Cdk6 PE=1 SV=2	tr|F1MA87|F1MA87_RAT	0.000075
tr|A0A0G2JVH4|A0A0G2JVH4_RAT MICOS complex subunit MIC60 OS=Rattus norvegicus GN=Immt PE=1 SV=1	tr|A0A0G2JVH4|A0A0G2JVH4_RAT	0.0008
tr|A0A0G2JXT8|A0A0G2JXT8_RAT Protein Flnb OS=Rattus norvegicus GN=Flnb PE=1 SV=1	tr|A0A0G2JXT8|A0A0G2JXT8_RAT (+1)	0.0009
sp|P63245|GBLP_RAT Guanine nucleotide-binding protein subunit beta-2-like 1 OS=Rattus norvegicus GN=Gnb2l1 PE=1 SV=3	sp|P63245|GBLP_RAT	0.0008
sp|Q66HF1|NDUS1_RAT NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial OS=Rattus norvegicus GN=Ndufs1 PE=1 SV=1	sp|Q66HF1|NDUS1_RAT	0.00075
tr|D3ZIE9|D3ZIE9_RAT Protein Aldh18a1 OS=Rattus norvegicus GN=Aldh18a1 PE=3 SV=1	tr|D3ZIE9|D3ZIE9_RAT	0.00085
tr|G3V8A5|G3V8A5_RAT Protein Vps35 OS=Rattus norvegicus GN=Vps35 PE=1 SV=1	tr|G3V8A5|G3V8A5_RAT	0.0008
Cluster of sp|P09330|PRPS2_RAT Ribose-phosphate pyrophosphokinase 2 OS=Rattus norvegicus GN=Prps2 PE=1 SV=3 (sp|P09330|PRPS2_RAT)	sp|P09330|PRPS2_RAT [3]	0.00072
sp|P09330|PRPS2_RAT Ribose-phosphate pyrophosphokinase 2 OS=Rattus norvegicus GN=Prps2 PE=1 SV=3	sp|P09330|PRPS2_RAT	0.00067
sp|P60892|PRPS1_RAT Ribose-phosphate pyrophosphokinase 1 OS=Rattus norvegicus GN=Prps1 PE=1 SV=2	sp|P60892|PRPS1_RAT (+1)	0.00052
sp|Q7TPB1|TCPD_RAT T-complex protein 1 subunit delta OS=Rattus norvegicus GN=Cct4 PE=1 SV=3	sp|Q7TPB1|TCPD_RAT	0.00092
tr|Q6P3V9|Q6P3V9_RAT 60S ribosomal protein L4 OS=Rattus norvegicus GN=Rpl4 PE=1 SV=1	tr|Q6P3V9|Q6P3V9_RAT	0.0008
sp|P62815|VATB2_RAT V-type proton ATPase subunit B, brain isoform OS=Rattus norvegicus GN=Atp6v1b2 PE=1 SV=1	sp|P62815|VATB2_RAT	0.00075
sp|P23514|COPB_RAT Coatomer subunit beta OS=Rattus norvegicus GN=Copb1 PE=1 SV=1	sp|P23514|COPB_RAT	0.0008
sp|Q4AEF8|COPG1_RAT Coatomer subunit gamma-1 OS=Rattus norvegicus GN=Copg1 PE=2 SV=1	sp|Q4AEF8|COPG1_RAT	0.0008
sp|Q5XI78|ODO1_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdh PE=1 SV=1	sp|Q5XI78|ODO1_RAT	0.0008
tr|G3V826|G3V826_RAT Transketolase OS=Rattus norvegicus GN=Tkt PE=1 SV=1	tr|G3V826|G3V826_RAT	0.00075
Cluster of sp|O35303-2|DNM1L_RAT Isoform 2 of Dynamin-1-like protein OS=Rattus norvegicus GN=Dnm1l (sp|O35303-2|DNM1L_RAT)	sp|O35303-2|DNM1L_RAT	0.0007
sp|O35303-2|DNM1L_RAT Isoform 2 of Dynamin-1-like protein OS=Rattus norvegicus GN=Dnm1l	sp|O35303-2|DNM1L_RAT	0.0007
sp|P14408-2|FUMH_RAT Isoform Cytoplasmic of Fumarate hydratase, mitochondrial OS=Rattus norvegicus GN=Fh	sp|P14408-2|FUMH_RAT (+1)	0.0007
sp|P49242|RS3A_RAT 40S ribosomal protein S3a OS=Rattus norvegicus GN=Rps3a PE=1 SV=2	sp|P49242|RS3A_RAT	0.00067
sp|P05426|RL7_RAT 60S ribosomal protein L7 OS=Rattus norvegicus GN=Rpl7 PE=1 SV=2	sp|P05426|RL7_RAT (+1)	0.00062
Cluster of sp|P11505-3|AT2B1_RAT Isoform B of Plasma membrane calcium-transporting ATPase 1 OS=Rattus norvegicus GN=Atp2b1 (sp|P11505-3|AT2B1_RAT)	sp|P11505-3|AT2B1_RAT [8]	0.00067
sp|P11505-3|AT2B1_RAT Isoform B of Plasma membrane calcium-transporting ATPase 1 OS=Rattus norvegicus GN=Atp2b1	sp|P11505-3|AT2B1_RAT (+3)	0.00047
sp|Q64542-2|AT2B4_RAT Isoform XA of Plasma membrane calcium-transporting ATPase 4 OS=Rattus norvegicus GN=Atp2b4	sp|Q64542-2|AT2B4_RAT (+3)	0.00045
Cluster of tr|A0A0G2K719|A0A0G2K719_RAT Protein Ddx3x OS=Rattus norvegicus GN=Ddx3x PE=1 SV=1 (tr|A0A0G2K719|A0A0G2K719_RAT)	tr|A0A0G2K719|A0A0G2K719_RAT [2]	0.00077
tr|A0A0G2K719|A0A0G2K719_RAT Protein Ddx3x OS=Rattus norvegicus GN=Ddx3x PE=1 SV=1	tr|A0A0G2K719|A0A0G2K719_RAT	0.0007
tr|A0A0G2K9N3|A0A0G2K9N3_RAT Protein Ddx3 OS=Rattus norvegicus GN=Ddx3 PE=1 SV=1	tr|A0A0G2K9N3|A0A0G2K9N3_RAT	0.00052
tr|Q6P7A7|Q6P7A7_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 OS=Rattus norvegicus GN=Rpn1 PE=1 SV=1	tr|Q6P7A7|Q6P7A7_RAT	0.00075
Cluster of sp|P05708|HXK1_RAT Hexokinase-1 OS=Rattus norvegicus GN=Hk1 PE=1 SV=4 (sp|P05708|HXK1_RAT)	sp|P05708|HXK1_RAT [2]	0.00075
sp|P05708|HXK1_RAT Hexokinase-1 OS=Rattus norvegicus GN=Hk1 PE=1 SV=4	sp|P05708|HXK1_RAT	0.00075
tr|M0RAQ6|M0RAQ6_RAT Hexokinase OS=Rattus norvegicus GN=Hk1 PE=1 SV=2	tr|M0RAQ6|M0RAQ6_RAT	0.00057
sp|P18418|CALR_RAT Calreticulin OS=Rattus norvegicus GN=Calr PE=1 SV=1	sp|P18418|CALR_RAT	0.0006
Cluster of sp|P62425|RL7A_RAT 60S ribosomal protein L7a OS=Rattus norvegicus GN=Rpl7a PE=1 SV=2 (sp|P62425|RL7A_RAT)	sp|P62425|RL7A_RAT [2]	0.0006
sp|P62425|RL7A_RAT 60S ribosomal protein L7a OS=Rattus norvegicus GN=Rpl7a PE=1 SV=2	sp|P62425|RL7A_RAT (+1)	0.0006
tr|A0A0G2JU96|A0A0G2JU96_RAT Protein Ahnak OS=Rattus norvegicus GN=Ahnak PE=1 SV=1	tr|A0A0G2JU96|A0A0G2JU96_RAT (+1)	0.00057
tr|D4AEH9|D4AEH9_RAT Amylo-1, 6-glucosidase, 4-alpha-glucanotransferase (Glycogen debranching enzyme, glycogen storage disease type III) (Predicted), isoform C	tr|D4AEH9|D4AEH9_RAT	0.0006
tr|Q6IMZ3|Q6IMZ3_RAT Annexin OS=Rattus norvegicus GN=Anxa6 PE=1 SV=1	tr|Q6IMZ3|Q6IMZ3_RAT	0.00065
sp|P04785|PDIA1_RAT Protein disulfide-isomerase OS=Rattus norvegicus GN=P4hb PE=1 SV=2	sp|P04785|PDIA1_RAT	0.0007
sp|P62703|RS4X_RAT 40S ribosomal protein S4, X isoform OS=Rattus norvegicus GN=Rps4x PE=2 SV=2	sp|P62703|RS4X_RAT (+2)	0.0007
sp|Q920L2|SDHA_RAT Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial OS=Rattus norvegicus GN=Sdha PE=1 SV=1	sp|Q920L2|SDHA_RAT	0.00065
tr|A0A0G2K502|A0A0G2K502_RAT Malic enzyme OS=Rattus norvegicus GN=Me2 PE=1 SV=1	tr|A0A0G2K502|A0A0G2K502_RAT (+1)	0.00065
tr|D3ZPR0|D3ZPR0_RAT Chromosome segregation 1-like (S. cerevisiae) (Predicted) OS=Rattus norvegicus GN=Cse1l PE=1 SV=1	tr|D3ZPR0|D3ZPR0_RAT	0.00072
Cluster of tr|G3V874|G3V874_RAT Erythrocyte protein band 4.1-like 3, isoform CRA_b OS=Rattus norvegicus GN=Epb41l3 PE=1 SV=1 (tr|G3V874|G3V874_RAT)	tr|G3V874|G3V874_RAT [6]	0.00062
tr|G3V874|G3V874_RAT Erythrocyte protein band 4.1-like 3, isoform CRA_b OS=Rattus norvegicus GN=Epb41l3 PE=1 SV=1	tr|G3V874|G3V874_RAT	0.0005
tr|D3ZDT1|D3ZDT1_RAT Protein Epb41l2 OS=Rattus norvegicus GN=Epb41l2 PE=1 SV=3	tr|D3ZDT1|D3ZDT1_RAT (+1)	0.00017
sp|Q9WTP0-2|E41L1_RAT Isoform L of Band 4.1-like protein 1 OS=Rattus norvegicus GN=Epb41l1	sp|Q9WTP0-2|E41L1_RAT (+2)	0.000025
sp|O70351|HCD2_RAT 3-hydroxyacyl-CoA dehydrogenase type-2 OS=Rattus norvegicus GN=Hsd17b10 PE=1 SV=3	sp|O70351|HCD2_RAT (+1)	0.00065
sp|P13383|NUCL_RAT Nucleolin OS=Rattus norvegicus GN=Ncl PE=1 SV=3	sp|P13383|NUCL_RAT (+1)	0.00065
sp|Q6P6V0|G6PI_RAT Glucose-6-phosphate isomerase OS=Rattus norvegicus GN=Gpi PE=1 SV=1	sp|Q6P6V0|G6PI_RAT	0.00062
tr|Q2I6B2|Q2I6B2_RAT V-type proton ATPase subunit a OS=Rattus norvegicus GN=Atp6v0a1 PE=1 SV=1	tr|Q2I6B2|Q2I6B2_RAT (+1)	0.00057
Cluster of sp|P61980|HNRPK_RAT Heterogeneous nuclear ribonucleoprotein K OS=Rattus norvegicus GN=Hnrnpk PE=1 SV=1 (sp|P61980|HNRPK_RAT)	sp|P61980|HNRPK_RAT [2]	0.00052
sp|P61980|HNRPK_RAT Heterogeneous nuclear ribonucleoprotein K OS=Rattus norvegicus GN=Hnrnpk PE=1 SV=1	sp|P61980|HNRPK_RAT (+1)	0.00052
Cluster of sp|P81795|IF2G_RAT Eukaryotic translation initiation factor 2 subunit 3 OS=Rattus norvegicus GN=Eif2s3 PE=1 SV=2 (sp|P81795|IF2G_RAT)	sp|P81795|IF2G_RAT [2]	0.0006
sp|P81795|IF2G_RAT Eukaryotic translation initiation factor 2 subunit 3 OS=Rattus norvegicus GN=Eif2s3 PE=1 SV=2	sp|P81795|IF2G_RAT	0.00052
tr|A0A0G2JU42|A0A0G2JU42_RAT Protein Eif2s3y OS=Rattus norvegicus GN=Eif2s3y PE=1 SV=1	tr|A0A0G2JU42|A0A0G2JU42_RAT	0.0005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|O35567|PUR9_RAT Bifunctional purine biosynthesis protein PURH OS=Rattus norvegicus GN=Atic PE=1 SV=2	sp|O35567|PUR9_RAT	0.00065
Cluster of sp|P19804|NDKB_RAT Nucleoside diphosphate kinase B OS=Rattus norvegicus GN=Nme2 PE=1 SV=1 (sp|P19804|NDKB_RAT)	sp|P19804|NDKB_RAT [2]	0.00062
sp|P19804|NDKB_RAT Nucleoside diphosphate kinase B OS=Rattus norvegicus GN=Nme2 PE=1 SV=1	sp|P19804|NDKB_RAT	0.00052
sp|Q05982|NDKA_RAT Nucleoside diphosphate kinase A OS=Rattus norvegicus GN=Nme1 PE=1 SV=1	sp|Q05982|NDKA_RAT	0.00032
tr|D4A8U7|D4A8U7_RAT Dynactin 1, isoform CRA_a OS=Rattus norvegicus GN=Dctn1 PE=1 SV=2	tr|D4A8U7|D4A8U7_RAT	0.00065
tr|Q5M9H2|Q5M9H2_RAT Acyl-Coenzyme A dehydrogenase, very long chain OS=Rattus norvegicus GN=Acadvl PE=1 SV=1	tr|Q5M9H2|Q5M9H2_RAT	0.00065
sp|P21807|PERI_RAT Peripherin OS=Rattus norvegicus GN=Prph PE=1 SV=1	sp|P21807|PERI_RAT	0.0006
sp|Q04462|SYVC_RAT Valine--tRNA ligase OS=Rattus norvegicus GN=Vars PE=2 SV=2	sp|Q04462|SYVC_RAT	0.0006
sp|Q6PDV7|RL10_RAT 60S ribosomal protein L10 OS=Rattus norvegicus GN=Rpl10 PE=1 SV=3	sp|Q6PDV7|RL10_RAT	0.00047
tr|D3ZAN3|D3ZAN3_RAT Alpha glucosidase 2 alpha neutral subunit (Predicted) OS=Rattus norvegicus GN=Ganab PE=1 SV=1	tr|D3ZAN3|D3ZAN3_RAT	0.00062
tr|G3V8B6|G3V8B6_RAT 26S proteasome non-ATPase regulatory subunit 1 OS=Rattus norvegicus GN=Psmd1 PE=1 SV=1	tr|G3V8B6|G3V8B6_RAT	0.00047
sp|P20070-3|NB5R3_RAT Isoform 3 of NADH-cytochrome b5 reductase 3 OS=Rattus norvegicus GN=Cyb5r3	sp|P20070-3|NB5R3_RAT	0.00057
tr|A0A0G2JZI2|A0A0G2JZI2_RAT Protein Eprs OS=Rattus norvegicus GN=Eprs PE=1 SV=1	tr|A0A0G2JZI2|A0A0G2JZI2_RAT	0.0005
tr|A0A0G2KBC7|A0A0G2KBC7_RAT ATP-dependent 6-phosphofructokinase OS=Rattus norvegicus GN=Pfkm PE=1 SV=1	tr|A0A0G2KBC7|A0A0G2KBC7_RAT (+1)	0.0007
sp|P20156|VGF_RAT Neurosecretory protein VGF OS=Rattus norvegicus GN=Vgf PE=1 SV=3	sp|P20156|VGF_RAT (+1)	0.00065
sp|P32551|QCR2_RAT Cytochrome b-c1 complex subunit 2, mitochondrial OS=Rattus norvegicus GN=Uqcrc2 PE=1 SV=2	sp|P32551|QCR2_RAT	0.0005
sp|P47860|PFKAP_RAT ATP-dependent 6-phosphofructokinase, platelet type OS=Rattus norvegicus GN=Pfkp PE=1 SV=2	sp|P47860|PFKAP_RAT	0.00072
Cluster of sp|P61206|ARF3_RAT ADP-ribosylation factor 3 OS=Rattus norvegicus GN=Arf3 PE=2 SV=2 (sp|P61206|ARF3_RAT)	sp|P61206|ARF3_RAT [5]	0.00042
sp|P61206|ARF3_RAT ADP-ribosylation factor 3 OS=Rattus norvegicus GN=Arf3 PE=2 SV=2	sp|P61206|ARF3_RAT (+2)	0.00032
sp|P84083|ARF5_RAT ADP-ribosylation factor 5 OS=Rattus norvegicus GN=Arf5 PE=1 SV=2	sp|P84083|ARF5_RAT	0.00022
sp|P61751|ARF4_RAT ADP-ribosylation factor 4 OS=Rattus norvegicus GN=Arf4 PE=2 SV=2	sp|P61751|ARF4_RAT	0.0002
sp|P07825|SYPH_RAT Synaptophysin OS=Rattus norvegicus GN=Syp PE=1 SV=1	sp|P07825|SYPH_RAT	0.00047
Cluster of sp|P21531|RL3_RAT 60S ribosomal protein L3 OS=Rattus norvegicus GN=Rpl3 PE=1 SV=3 (sp|P21531|RL3_RAT)	sp|P21531|RL3_RAT	0.00057
sp|P21531|RL3_RAT 60S ribosomal protein L3 OS=Rattus norvegicus GN=Rpl3 PE=1 SV=3	sp|P21531|RL3_RAT	0.00057
sp|P62944-2|AP2B1_RAT Isoform 2 of AP-2 complex subunit beta OS=Rattus norvegicus GN=Ap2b1	sp|P62944-2|AP2B1_RAT (+1)	0.00085
sp|Q68FR6|EF1G_RAT Elongation factor 1-gamma OS=Rattus norvegicus GN=Eef1g PE=2 SV=3	sp|Q68FR6|EF1G_RAT	0.00057
tr|A0A0G2JY43|A0A0G2JY43_RAT Fatty aldehyde dehydrogenase OS=Rattus norvegicus GN=Aldh3a2 PE=1 SV=1	tr|A0A0G2JY43|A0A0G2JY43_RAT	0.0005
tr|A0A0G2K0B4|A0A0G2K0B4_RAT E3 ubiquitin-protein ligase NEDD4 OS=Rattus norvegicus GN=Nedd4 PE=1 SV=1	tr|A0A0G2K0B4|A0A0G2K0B4_RAT (+1)	0.00052
Cluster of sp|P04905|GSTM1_RAT Glutathione S-transferase Mu 1 OS=Rattus norvegicus GN=Gstm1 PE=1 SV=2 (sp|P04905|GSTM1_RAT)	sp|P04905|GSTM1_RAT [2]	0.00055
sp|P04905|GSTM1_RAT Glutathione S-transferase Mu 1 OS=Rattus norvegicus GN=Gstm1 PE=1 SV=2	sp|P04905|GSTM1_RAT	0.00052
tr|Q5BK56|Q5BK56_RAT Glutathione S-transferase mu 4 OS=Rattus norvegicus GN=Gstm4 PE=1 SV=1	tr|Q5BK56|Q5BK56_RAT	0.00012
sp|P17764|THIL_RAT Acetyl-CoA acetyltransferase, mitochondrial OS=Rattus norvegicus GN=Acat1 PE=1 SV=1	sp|P17764|THIL_RAT	0.00055
sp|P97629|LCAP_RAT Leucyl-cystinyl aminopeptidase OS=Rattus norvegicus GN=Lnpep PE=1 SV=1	sp|P97629|LCAP_RAT (+2)	0.00055
Cluster of sp|Q9EPH8|PABP1_RAT Polyadenylate-binding protein 1 OS=Rattus norvegicus GN=Pabpc1 PE=1 SV=1 (sp|Q9EPH8|PABP1_RAT)	sp|Q9EPH8|PABP1_RAT	0.00055
sp|Q9EPH8|PABP1_RAT Polyadenylate-binding protein 1 OS=Rattus norvegicus GN=Pabpc1 PE=1 SV=1	sp|Q9EPH8|PABP1_RAT	0.00055
tr|A0A0G2K459|A0A0G2K459_RAT Protein Mtch2 OS=Rattus norvegicus GN=Mtch2 PE=1 SV=1	tr|A0A0G2K459|A0A0G2K459_RAT	0.00057
tr|A0A0G2K6U1|A0A0G2K6U1_RAT Vesicle-fusing ATPase OS=Rattus norvegicus GN=Nsf PE=1 SV=1	tr|A0A0G2K6U1|A0A0G2K6U1_RAT	0.0005
tr|D3ZH41|D3ZH41_RAT Cytoskeleton-associated protein 4 (Predicted) OS=Rattus norvegicus GN=Ckap4 PE=1 SV=2	tr|D3ZH41|D3ZH41_RAT	0.00057
tr|F1LN88|F1LN88_RAT Aldehyde dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh2 PE=1 SV=2	tr|F1LN88|F1LN88_RAT	0.00057
tr|F2Z3Q8|F2Z3Q8_RAT Importin subunit beta-1 OS=Rattus norvegicus GN=Kpnb1 PE=1 SV=1	tr|F2Z3Q8|F2Z3Q8_RAT	0.00045
Cluster of tr|Q5XI34|Q5XI34_RAT Protein Ppp2r1a OS=Rattus norvegicus GN=Ppp2r1a PE=1 SV=1 (tr|Q5XI34|Q5XI34_RAT)	tr|Q5XI34|Q5XI34_RAT [2]	0.00057
tr|Q5XI34|Q5XI34_RAT Protein Ppp2r1a OS=Rattus norvegicus GN=Ppp2r1a PE=1 SV=1	tr|Q5XI34|Q5XI34_RAT	0.00055
sp|Q4QQT4|2AAB_RAT Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform OS=Rattus norvegicus GN=Ppp2r1b PE=2 SV=1	sp|Q4QQT4|2AAB_RAT	0.00022
sp|O35814|STIP1_RAT Stress-induced-phosphoprotein 1 OS=Rattus norvegicus GN=Stip1 PE=1 SV=1	sp|O35814|STIP1_RAT	0.00057
sp|P62260|1433E_RAT 14-3-3 protein epsilon OS=Rattus norvegicus GN=Ywhae PE=1 SV=1	sp|P62260|1433E_RAT	0.00067
sp|P85972|VINC_RAT Vinculin OS=Rattus norvegicus GN=Vcl PE=1 SV=1	sp|P85972|VINC_RAT (+2)	0.0005
sp|Q641Y0|OST48_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Rattus norvegicus GN=Ddost PE=2 SV=1	sp|Q641Y0|OST48_RAT	0.00052
sp|Q68FY0|QCR1_RAT Cytochrome b-c1 complex subunit 1, mitochondrial OS=Rattus norvegicus GN=Uqcrc1 PE=1 SV=1	sp|Q68FY0|QCR1_RAT	0.00057
sp|Q6AYD3|PA2G4_RAT Proliferation-associated protein 2G4 OS=Rattus norvegicus GN=Pa2g4 PE=1 SV=1	sp|Q6AYD3|PA2G4_RAT	0.00067
Cluster of sp|Q8K1Q0|NMT1_RAT Glycylpeptide N-tetradecanoyltransferase 1 OS=Rattus norvegicus GN=Nmt1 PE=1 SV=1 (sp|Q8K1Q0|NMT1_RAT)	sp|Q8K1Q0|NMT1_RAT [2]	0.00055
sp|Q8K1Q0|NMT1_RAT Glycylpeptide N-tetradecanoyltransferase 1 OS=Rattus norvegicus GN=Nmt1 PE=1 SV=1	sp|Q8K1Q0|NMT1_RAT	0.00052
tr|F1M110|F1M110_RAT Glycylpeptide N-tetradecanoyltransferase OS=Rattus norvegicus GN=Nmt2 PE=1 SV=3	tr|F1M110|F1M110_RAT	0.0002
sp|Q91Y94|COX42_RAT Cytochrome c oxidase subunit 4 isoform 2, mitochondrial OS=Rattus norvegicus GN=Cox4i2 PE=2 SV=1	sp|Q91Y94|COX42_RAT	0.00057
tr|D3ZD89|D3ZD89_RAT NMDA receptor-regulated gene 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Naa15 PE=1 SV=2	tr|D3ZD89|D3ZD89_RAT	0.00065
tr|G3V6H2|G3V6H2_RAT Pre-mRNA processing factor 8, isoform CRA_a OS=Rattus norvegicus GN=Prpf8 PE=1 SV=1	tr|G3V6H2|G3V6H2_RAT	0.00057
tr|G3V741|G3V741_RAT Phosphate carrier protein, mitochondrial OS=Rattus norvegicus GN=Slc25a3 PE=1 SV=1	tr|G3V741|G3V741_RAT	0.00052
sp|P47942|DPYL2_RAT Dihydropyrimidinase-related protein 2 OS=Rattus norvegicus GN=Dpysl2 PE=1 SV=1	sp|P47942|DPYL2_RAT	0.00062
sp|P97852|DHB4_RAT Peroxisomal multifunctional enzyme type 2 OS=Rattus norvegicus GN=Hsd17b4 PE=1 SV=3	sp|P97852|DHB4_RAT	0.00052
Cluster of sp|Q4V7C7|ARP3_RAT Actin-related protein 3 OS=Rattus norvegicus GN=Actr3 PE=1 SV=1 (sp|Q4V7C7|ARP3_RAT)	sp|Q4V7C7|ARP3_RAT [3]	0.00047
sp|Q4V7C7|ARP3_RAT Actin-related protein 3 OS=Rattus norvegicus GN=Actr3 PE=1 SV=1	sp|Q4V7C7|ARP3_RAT (+1)	0.00045
tr|F1LY09|F1LY09_RAT Protein Actr3b OS=Rattus norvegicus GN=Actr3b PE=1 SV=2	tr|F1LY09|F1LY09_RAT	0.00017
tr|G3V8L3|G3V8L3_RAT Lamin A, isoform CRA_b OS=Rattus norvegicus GN=Lmna PE=1 SV=1	tr|G3V8L3|G3V8L3_RAT	0.0005
sp|B5DFC8|EIF3C_RAT Eukaryotic translation initiation factor 3 subunit C OS=Rattus norvegicus GN=Eif3c PE=1 SV=1	sp|B5DFC8|EIF3C_RAT	0.00055
sp|P12785|FAS_RAT Fatty acid synthase OS=Rattus norvegicus GN=Fasn PE=1 SV=3	sp|P12785|FAS_RAT	0.00052
sp|P35435|ATPG_RAT ATP synthase subunit gamma, mitochondrial OS=Rattus norvegicus GN=Atp5c1 PE=1 SV=2	sp|P35435|ATPG_RAT (+1)	0.00052

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|P38983|RSSA_RAT 40S ribosomal protein SA OS=Rattus norvegicus GN=Rpsa PE=1 SV=3	sp|P38983|RSSA_RAT	0.00055
sp|P40329|SYRC_RAT Arginine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Rars PE=1 SV=2	sp|P40329|SYRC_RAT	0.00052
sp|P61765|STXB1_RAT Syntaxin-binding protein 1 OS=Rattus norvegicus GN=Stxbp1 PE=1 SV=1	sp|P61765|STXB1_RAT	0.00057
sp|Q07647|GTR3_RAT Solute carrier family 2, facilitated glucose transporter member 3 OS=Rattus norvegicus GN=Slc2a3 PE=1 SV=1	sp|Q07647|GTR3_RAT	0.0005
sp|Q4FZT9|PSMD2_RAT 26S proteasome non-ATPase regulatory subunit 2 OS=Rattus norvegicus GN=Psmd2 PE=1 SV=1	sp|Q4FZT9|PSMD2_RAT	0.0005
sp|Q5U2Q7|ERF1_RAT Eukaryotic peptide chain release factor subunit 1 OS=Rattus norvegicus GN=Etf1 PE=2 SV=3	sp|Q5U2Q7|ERF1_RAT	0.00047
Cluster of sp|Q9R1Z0-2|VDAC3_RAT Isoform 2 of Voltage-dependent anion-selective channel protein 3 OS=Rattus norvegicus GN=Vdac3 (sp|Q9R1Z0-2|VDAC3_RAT)	sp|Q9R1Z0-2|VDAC3_RAT [3]	0.00052
sp|Q9R1Z0-2|VDAC3_RAT Isoform 2 of Voltage-dependent anion-selective channel protein 3 OS=Rattus norvegicus GN=Vdac3	sp|Q9R1Z0-2|VDAC3_RAT	0.0005
sp|Q9R1Z0|VDAC3_RAT Voltage-dependent anion-selective channel protein 3 OS=Rattus norvegicus GN=Vdac3 PE=1 SV=2	sp|Q9R1Z0|VDAC3_RAT (+1)	0.0005
tr|F1LQS3|F1LQS3_RAT 60S ribosomal protein L6 OS=Rattus norvegicus GN=Rpl6-ps1 PE=3 SV=1	tr|F1LQS3|F1LQS3_RAT (+1)	0.00055
tr|Q5BJZ3|Q5BJZ3_RAT Nicotinamide nucleotide transhydrogenase OS=Rattus norvegicus GN=Nnt PE=1 SV=1	tr|Q5BJZ3|Q5BJZ3_RAT	0.00052
tr|Q5U3Z7|Q5U3Z7_RAT Serine hydroxymethyltransferase OS=Rattus norvegicus GN=Shmt2 PE=1 SV=1	tr|Q5U3Z7|Q5U3Z7_RAT	0.00055
sp|F1LMZ8|PSD11_RAT 26S proteasome non-ATPase regulatory subunit 11 OS=Rattus norvegicus GN=Psmd11 PE=1 SV=2	sp|F1LMZ8|PSD11_RAT (+1)	0.00047
Cluster of sp|P09495|TPM4_RAT Tropomyosin alpha-4 chain OS=Rattus norvegicus GN=Tpm4 PE=1 SV=3 (sp|P09495|TPM4_RAT)	sp|P09495|TPM4_RAT [7]	0.00045
sp|P09495|TPM4_RAT Tropomyosin alpha-4 chain OS=Rattus norvegicus GN=Tpm4 PE=1 SV=3	sp|P09495|TPM4_RAT	0.00025
sp|Q63610|TPM3_RAT Tropomyosin alpha-3 chain OS=Rattus norvegicus GN=Tpm3 PE=1 SV=2	sp|Q63610|TPM3_RAT	0.00022
sp|P04692-4|TPM1_RAT Isoform 4 of Tropomyosin alpha-1 chain OS=Rattus norvegicus GN=Tpm1	sp|P04692-4|TPM1_RAT (+4)	0.00005
sp|P19945|RLA0_RAT 60S acidic ribosomal protein P0 OS=Rattus norvegicus GN=Rplp0 PE=1 SV=2	sp|P19945|RLA0_RAT	0.00052
sp|P21575-5|DYN1_RAT Isoform 5 of Dynamin-1 OS=Rattus norvegicus GN=Dnm1	sp|P21575-5|DYN1_RAT (+2)	0.00087
Cluster of sp|P60881|SNP25_RAT Synaptosomal-associated protein 25 OS=Rattus norvegicus GN=Snap25 PE=1 SV=1 (sp|P60881|SNP25_RAT)	sp|P60881|SNP25_RAT [2]	0.00047
sp|P60881|SNP25_RAT Synaptosomal-associated protein 25 OS=Rattus norvegicus GN=Snap25 PE=1 SV=1	sp|P60881|SNP25_RAT	0.00042
sp|P60881-2|SNP25_RAT Isoform 2 of Synaptosomal-associated protein 25 OS=Rattus norvegicus GN=Snap25	sp|P60881-2|SNP25_RAT	0.0004
sp|Q60587|ECHB_RAT Trifunctional enzyme subunit beta, mitochondrial OS=Rattus norvegicus GN=Hadhb PE=1 SV=1	sp|Q60587|ECHB_RAT	0.0004
sp|Q6AYT3|RTCB_RAT tRNA-splicing ligase RtcB homolog OS=Rattus norvegicus GN=Rtcb PE=2 SV=1	sp|Q6AYT3|RTCB_RAT	0.00055
sp|Q6Q0N3|NT5D2_RAT 5'-nucleotidase domain-containing protein 2 OS=Rattus norvegicus GN=Nt5dc2 PE=2 SV=2	sp|Q6Q0N3|NT5D2_RAT	0.00052
tr|A0A0G2K9A2|A0A0G2K9A2_RAT Actin related protein 2/3 complex, subunit 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Arpc2 PE=1 SV=1	tr|A0A0G2K9A2|A0A0G2K9A2_RAT	0.00047
tr|B1WC61|B1WC61_RAT Acad9 protein OS=Rattus norvegicus GN=Acad9 PE=1 SV=1	tr|B1WC61|B1WC61_RAT	0.00055
tr|F1M949|F1M949_RAT Protein Ckap5 OS=Rattus norvegicus GN=Ckap5 PE=1 SV=3	tr|F1M949|F1M949_RAT	0.00055
tr|G3V936|G3V936_RAT Citrate synthase OS=Rattus norvegicus GN=Cs PE=1 SV=1	tr|G3V936|G3V936_RAT	0.00052
sp|O35314|SCG1_RAT Secretogranin-1 OS=Rattus norvegicus GN=Chgb PE=1 SV=2	sp|O35314|SCG1_RAT	0.00052
sp|P27653|C1TC_RAT C-1-tetrahydrofolate synthase, cytoplasmic OS=Rattus norvegicus GN=Mthfd1 PE=1 SV=3	sp|P27653|C1TC_RAT (+1)	0.00052
sp|P56574|IDHP_RAT Isocitrate dehydrogenase [NADP], mitochondrial OS=Rattus norvegicus GN=Idh2 PE=1 SV=2	sp|P56574|IDHP_RAT	0.00052
sp|P62632|EF1A2_RAT Elongation factor 1-alpha 2 OS=Rattus norvegicus GN=Eef1a2 PE=1 SV=1	sp|P62632|EF1A2_RAT	0.0009
sp|P97571|CAN1_RAT Calpain-1 catalytic subunit OS=Rattus norvegicus GN=Capn1 PE=1 SV=1	sp|P97571|CAN1_RAT	0.0004
Cluster of sp|Q6IFW6|K1C10_RAT Keratin, type I cytoskeletal 10 OS=Rattus norvegicus GN=Krt10 PE=3 SV=1 (sp|Q6IFW6|K1C10_RAT)	sp|Q6IFW6|K1C10_RAT [2]	0.00027
sp|Q6IFW6|K1C10_RAT Keratin, type I cytoskeletal 10 OS=Rattus norvegicus GN=Krt10 PE=3 SV=1	sp|Q6IFW6|K1C10_RAT (+1)	0.00022
sp|Q6P7D4|CP20A_RAT Cytochrome P450 20A1 OS=Rattus norvegicus GN=Cyp20a1 PE=2 SV=1	sp|Q6P7D4|CP20A_RAT (+1)	0.0005
Cluster of tr|A0A0G2K654|A0A0G2K654_RAT Protein LOC684681 OS=Rattus norvegicus GN=LOC684681 PE=1 SV=1 (tr|A0A0G2K654|A0A0G2K654_RAT)	tr|A0A0G2K654|A0A0G2K654_RAT [2]	0.00047
tr|A0A0G2K654|A0A0G2K654_RAT Protein LOC684681 OS=Rattus norvegicus GN=LOC684681 PE=1 SV=1	tr|A0A0G2K654|A0A0G2K654_RAT	0.00042
tr|M0R7B4|M0R7B4_RAT Protein LOC684828 OS=Rattus norvegicus GN=LOC684828 PE=1 SV=2	tr|M0R7B4|M0R7B4_RAT	0.00035
tr|F8WFH8|F8WFH8_RAT Tryptophan--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Wars PE=1 SV=1	tr|F8WFH8|F8WFH8_RAT	0.00045
tr|Q3KRF2|Q3KRF2_RAT High density lipoprotein binding protein (Vigilin) OS=Rattus norvegicus GN=Hdlbp PE=1 SV=1	tr|Q3KRF2|Q3KRF2_RAT	0.0006
tr|Q5U2S7|Q5U2S7_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 3 OS=Rattus norvegicus GN=Psmd3 PE=1 SV=1	tr|Q5U2S7|Q5U2S7_RAT	0.00055
sp|O35763|MOES_RAT Moesin OS=Rattus norvegicus GN=Msn PE=1 SV=3	sp|O35763|MOES_RAT (+1)	0.00075
sp|P24049|RL17_RAT 60S ribosomal protein L17 OS=Rattus norvegicus GN=Rpl17 PE=2 SV=3	sp|P24049|RL17_RAT (+2)	0.00045
sp|P27952|RS2_RAT 40S ribosomal protein S2 OS=Rattus norvegicus GN=Rps2 PE=1 SV=1	sp|P27952|RS2_RAT (+1)	0.00042
sp|P81155|VDAC2_RAT Voltage-dependent anion-selective channel protein 2 OS=Rattus norvegicus GN=Vdac2 PE=1 SV=2	sp|P81155|VDAC2_RAT	0.00055
tr|B5DFK6|B5DFK6_RAT Adaptor-related protein complex 3, delta 1 subunit, isoform CRA_b OS=Rattus norvegicus GN=Ap3d1 PE=1 SV=1	tr|B5DFK6|B5DFK6_RAT	0.0005
Cluster of sp|P04644|RS17_RAT 40S ribosomal protein S17 OS=Rattus norvegicus GN=Rps17 PE=1 SV=3 (sp|P04644|RS17_RAT)	sp|P04644|RS17_RAT [3]	0.00047
sp|P04644|RS17_RAT 40S ribosomal protein S17 OS=Rattus norvegicus GN=Rps17 PE=1 SV=3	sp|P04644|RS17_RAT (+2)	0.00047
sp|P07872-2|ACOX1_RAT Isoform 2 of Peroxisomal acyl-coenzyme A oxidase 1 OS=Rattus norvegicus GN=Acox1	sp|P07872-2|ACOX1_RAT (+2)	0.00045
Cluster of sp|P62907|RL10A_RAT 60S ribosomal protein L10a OS=Rattus norvegicus GN=Rpl10a PE=1 SV=2 (sp|P62907|RL10A_RAT)	sp|P62907|RL10A_RAT	0.00047
sp|P62907|RL10A_RAT 60S ribosomal protein L10a OS=Rattus norvegicus GN=Rpl10a PE=1 SV=2	sp|P62907|RL10A_RAT	0.00047
Cluster of sp|Q9JK11|RTN4_RAT Reticulon-4 OS=Rattus norvegicus GN=Rtn4 PE=1 SV=1 (sp|Q9JK11|RTN4_RAT)	sp|Q9JK11|RTN4_RAT [3]	0.00045
sp|Q9JK11|RTN4_RAT Reticulon-4 OS=Rattus norvegicus GN=Rtn4 PE=1 SV=1	sp|Q9JK11|RTN4_RAT (+1)	0.0004
sp|Q9JK11-2|RTN4_RAT Isoform 2 of Reticulon-4 OS=Rattus norvegicus GN=Rtn4	sp|Q9JK11-2|RTN4_RAT	0.0004
tr|Q6P6U2|Q6P6U2_RAT 26S protease regulatory subunit 6A OS=Rattus norvegicus GN=Psmc3 PE=1 SV=1	tr|Q6P6U2|Q6P6U2_RAT	0.00055
sp|E9PU28|IMDH2_RAT Inosine-5'-monophosphate dehydrogenase 2 OS=Rattus norvegicus GN=Impdh2 PE=1 SV=1	sp|E9PU28|IMDH2_RAT	0.00045
sp|P10362|SCG2_RAT Secretogranin-2 OS=Rattus norvegicus GN=Scg2 PE=1 SV=1	sp|P10362|SCG2_RAT	0.00037
sp|P31399|ATP5H_RAT ATP synthase subunit d, mitochondrial OS=Rattus norvegicus GN=Atp5h PE=1 SV=3	sp|P31399|ATP5H_RAT	0.00052
sp|P35571|GPDM_RAT Glycerol-3-phosphate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Gpd2 PE=1 SV=1	sp|P35571|GPDM_RAT	0.00052
sp|Q4G061|EIF3B_RAT Eukaryotic translation initiation factor 3 subunit B OS=Rattus norvegicus GN=Eif3b PE=1 SV=1	sp|Q4G061|EIF3B_RAT	0.00055
sp|Q6P6R2|DLDH_RAT Dihydrolipoyl dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Dld PE=1 SV=1	sp|Q6P6R2|DLDH_RAT	0.00045
tr|D3ZN27|D3ZN27_RAT Protein Dnajc13 OS=Rattus norvegicus GN=Dnajc13 PE=1 SV=2	tr|D3ZN27|D3ZN27_RAT	0.00057
tr|D3ZVQ0|D3ZVQ0_RAT Protein Usp5 OS=Rattus norvegicus GN=Usp5 PE=1 SV=1	tr|D3ZVQ0|D3ZVQ0_RAT	0.00042

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|O35821|MBB1A_RAT Myb-binding protein 1A OS=Rattus norvegicus GN=Mybbp1a PE=1 SV=2	sp|O35821|MBB1A_RAT	0.00042
sp|P05065|ALDOA_RAT Fructose-bisphosphate aldolase A OS=Rattus norvegicus GN=Aldoa PE=1 SV=2	sp|P05065|ALDOA_RAT	0.0005
Cluster of sp|P13264-2|GLSK_RAT Isoform 2 of Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls (sp|P13264-2|GLSK_RAT)	sp|P13264-2|GLSK_RAT [2]	0.0005
sp|P13264-2|GLSK_RAT Isoform 2 of Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls	sp|P13264-2|GLSK_RAT	0.00042
sp|P13264|GLSK_RAT Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls PE=1 SV=2	sp|P13264|GLSK_RAT	0.00042
Cluster of sp|P45592|COF1_RAT Cofilin-1 OS=Rattus norvegicus GN=Cfl1 PE=1 SV=3 (sp|P45592|COF1_RAT)	sp|P45592|COF1_RAT [2]	0.00047
sp|P45592|COF1_RAT Cofilin-1 OS=Rattus norvegicus GN=Cfl1 PE=1 SV=3	sp|P45592|COF1_RAT	0.00045
tr|M0RC65|M0RC65_RAT Cofilin 2, muscle (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Cfl2 PE=1 SV=1	tr|M0RC65|M0RC65_RAT	0.000075
sp|P50475|SYAC_RAT Alanine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Aars PE=1 SV=3	sp|P50475|SYAC_RAT	0.0003
sp|P62083|RS7_RAT 40S ribosomal protein S7 OS=Rattus norvegicus GN=Rps7 PE=1 SV=1	sp|P62083|RS7_RAT	0.00045
sp|Q5BK63|NDUA9_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial OS=Rattus norvegicus GN=Ndufa9 PE=1 SV=2	sp|Q5BK63|NDUA9_RAT	0.00042
tr|B1WC67|B1WC67_RAT Protein Slc25a24 OS=Rattus norvegicus GN=Slc25a24 PE=1 SV=1	tr|B1WC67|B1WC67_RAT	0.00045
tr|D3ZU13|D3ZU13_RAT Protein Eif4g1 OS=Rattus norvegicus GN=Eif4g1 PE=1 SV=1	tr|D3ZU13|D3ZU13_RAT (+1)	0.00045
tr|G3V679|G3V679_RAT Transferrin receptor protein 1 OS=Rattus norvegicus GN=Tfrc PE=1 SV=1	tr|G3V679|G3V679_RAT	0.00047
sp|Q2TA68-3|OPA1_RAT Isoform 3 of Dynamin-like 120 kDa protein, mitochondrial OS=Rattus norvegicus GN=Opa1	sp|Q2TA68-3|OPA1_RAT (+1)	0.00047
sp|Q6AYH5|DCTN2_RAT Dynactin subunit 2 OS=Rattus norvegicus GN=Dctn2 PE=1 SV=1	sp|Q6AYH5|DCTN2_RAT (+1)	0.00047
sp|Q91Y81|SEPT2_RAT Septin-2 OS=Rattus norvegicus GN=Sept2 PE=1 SV=1	sp|Q91Y81|SEPT2_RAT	0.00047
Cluster of tr|A0A0G2JTD7|A0A0G2JTD7_RAT Protein Clasp1 OS=Rattus norvegicus GN=Clasp1 PE=1 SV=1 (tr|A0A0G2JTD7|A0A0G2JTD7_RAT)	tr|A0A0G2JTD7|A0A0G2JTD7_RAT [2]	0.00042
tr|A0A0G2JTD7|A0A0G2JTD7_RAT Protein Clasp1 OS=Rattus norvegicus GN=Clasp1 PE=1 SV=1	tr|A0A0G2JTD7|A0A0G2JTD7_RAT	0.00022
sp|Q99JD4|CLAP2_RAT CLIP-associating protein 2 OS=Rattus norvegicus GN=Clasp2 PE=1 SV=1	sp|Q99JD4|CLAP2_RAT	0.0003
Cluster of tr|D3ZXP3|D3ZXP3_RAT Histone H2A OS=Rattus norvegicus GN=H2afx PE=1 SV=1 (tr|D3ZXP3|D3ZXP3_RAT)	tr|D3ZXP3|D3ZXP3_RAT [15]	0.00052
tr|D3ZXP3|D3ZXP3_RAT Histone H2A OS=Rattus norvegicus GN=H2afx PE=1 SV=1	tr|D3ZXP3|D3ZXP3_RAT	0.00027
sp|P02262|H2A1_RAT Histone H2A type 1 OS=Rattus norvegicus PE=1 SV=2	sp|P02262|H2A1_RAT (+2)	0.00035
sp|A9UMV8|H2AJ_RAT Histone H2A.J OS=Rattus norvegicus GN=H2afj PE=2 SV=1	sp|A9UMV8|H2AJ_RAT (+10)	0.00032
tr|G3V918|G3V918_RAT Phosphoribosylglycinamide formyltransferase, isoform CRA_a OS=Rattus norvegicus GN=Gart PE=1 SV=1	tr|G3V918|G3V918_RAT	0.0004
sp|Q5M7U6|ARP2_RAT Actin-related protein 2 OS=Rattus norvegicus GN=Actr2 PE=2 SV=1	sp|Q5M7U6|ARP2_RAT	0.00045
Cluster of sp|Q63413|DX39B_RAT Spliceosome RNA helicase Ddx39b OS=Rattus norvegicus GN=Ddx39b PE=2 SV=3 (sp|Q63413|DX39B_RAT)	sp|Q63413|DX39B_RAT [2]	0.0004
sp|Q63413|DX39B_RAT Spliceosome RNA helicase Ddx39b OS=Rattus norvegicus GN=Ddx39b PE=2 SV=3	sp|Q63413|DX39B_RAT	0.00037
sp|Q5U216|DX39A_RAT ATP-dependent RNA helicase DDX39A OS=Rattus norvegicus GN=Ddx39a PE=2 SV=1	sp|Q5U216|DX39A_RAT	0.00025
sp|Q641Y8|DDX1_RAT ATP-dependent RNA helicase DDX1 OS=Rattus norvegicus GN=Ddx1 PE=1 SV=1	sp|Q641Y8|DDX1_RAT	0.00047
sp|Q794F9|4F2_RAT 4F2 cell-surface antigen heavy chain OS=Rattus norvegicus GN=Slc3a2 PE=1 SV=1	sp|Q794F9|4F2_RAT (+1)	0.00042
sp|Q924S5|LONM_RAT Lon protease homolog, mitochondrial OS=Rattus norvegicus GN=Lonp1 PE=2 SV=1	sp|Q924S5|LONM_RAT	0.00035
tr|F1LRL9|F1LRL9_RAT Microtubule-associated protein 1B OS=Rattus norvegicus GN=Map1b PE=1 SV=1	tr|F1LRL9|F1LRL9_RAT	0.00042
sp|O35142|COPB2_RAT Coatomer subunit beta' OS=Rattus norvegicus GN=Copb2 PE=1 SV=3	sp|O35142|COPB2_RAT	0.00032
sp|P04182|OAT_RAT Ornithine aminotransferase, mitochondrial OS=Rattus norvegicus GN=Oat PE=1 SV=1	sp|P04182|OAT_RAT	0.00045
sp|P13803|ETFA_RAT Electron transfer flavoprotein subunit alpha, mitochondrial OS=Rattus norvegicus GN=Etfa PE=1 SV=4	sp|P13803|ETFA_RAT	0.00042
sp|P24368|PPIB_RAT Peptidyl-prolyl cis-trans isomerase B OS=Rattus norvegicus GN=Ppib PE=1 SV=3	sp|P24368|PPIB_RAT	0.00037
sp|P68101|IF2A_RAT Eukaryotic translation initiation factor 2 subunit 1 OS=Rattus norvegicus GN=Eif2s1 PE=1 SV=2	sp|P68101|IF2A_RAT	0.00042
sp|Q3T1J1|IF5A1_RAT Eukaryotic translation initiation factor 5A-1 OS=Rattus norvegicus GN=Eif5a PE=1 SV=3	sp|Q3T1J1|IF5A1_RAT	0.00042
sp|Q63081|PDIA6_RAT Protein disulfide-isomerase A6 OS=Rattus norvegicus GN=Pdia6 PE=1 SV=2	sp|Q63081|PDIA6_RAT (+1)	0.00042
sp|Q641Y2|NDUS2_RAT NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial OS=Rattus norvegicus GN=Ndufs2 PE=1 SV=1	sp|Q641Y2|NDUS2_RAT	0.00047
sp|Q6UPE1|ETFD_RAT Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial OS=Rattus norvegicus GN=Etfdh PE=1 SV=1	sp|Q6UPE1|ETFD_RAT (+1)	0.00045
tr|D3ZSA9|D3ZSA9_RAT Protein Nomo1 OS=Rattus norvegicus GN=Nomo1 PE=1 SV=1	tr|D3ZSA9|D3ZSA9_RAT	0.00035
tr|D4A994|D4A994_RAT Protein Emc1 OS=Rattus norvegicus GN=Emc1 PE=1 SV=1	tr|D4A994|D4A994_RAT	0.00047
tr|F1M9Q8|F1M9Q8_RAT Alkyldihydroxyacetonephosphate synthase, peroxisomal OS=Rattus norvegicus GN=Agps PE=1 SV=3	tr|F1M9Q8|F1M9Q8_RAT	0.00045
tr|G3V640|G3V640_RAT Mitochondrial import inner membrane translocase subunit TIM44 OS=Rattus norvegicus GN=Timm44 PE=1 SV=1	tr|G3V640|G3V640_RAT	0.00037
Cluster of tr|M0RCY2|M0RCY2_RAT Protein LOC683961 OS=Rattus norvegicus GN=LOC683961 PE=3 SV=1 (tr|M0RCY2|M0RCY2_RAT)	tr|M0RCY2|M0RCY2_RAT	0.0004
tr|M0RCY2|M0RCY2_RAT Protein LOC683961 OS=Rattus norvegicus GN=LOC683961 PE=3 SV=1	tr|M0RCY2|M0RCY2_RAT	0.0004
tr|Q4QQV4|Q4QQV4_RAT Dead end homolog 1 (Zebrafish) OS=Rattus norvegicus GN=Hars PE=1 SV=1	tr|Q4QQV4|Q4QQV4_RAT	0.00037
tr|Q6AYI1|Q6AYI1_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 OS=Rattus norvegicus GN=Ddx5 PE=1 SV=1	tr|Q6AYI1|Q6AYI1_RAT	0.00052
sp|P09895|RL5_RAT 60S ribosomal protein L5 OS=Rattus norvegicus GN=Rpl5 PE=1 SV=3	sp|P09895|RL5_RAT	0.00037
sp|P29314|RS9_RAT 40S ribosomal protein S9 OS=Rattus norvegicus GN=Rps9 PE=1 SV=4	sp|P29314|RS9_RAT	0.00037
sp|P62250|RS16_RAT 40S ribosomal protein S16 OS=Rattus norvegicus GN=Rps16 PE=1 SV=2	sp|P62250|RS16_RAT	0.0004
sp|Q06647|ATPO_RAT ATP synthase subunit O, mitochondrial OS=Rattus norvegicus GN=Atp5o PE=1 SV=1	sp|Q06647|ATPO_RAT	0.00035
sp|Q5XHZ0|TRAP1_RAT Heat shock protein 75 kDa, mitochondrial OS=Rattus norvegicus GN=Trap1 PE=1 SV=1	sp|Q5XHZ0|TRAP1_RAT	0.00042
sp|Q63355|MYO1C_RAT Unconventional myosin-Ic OS=Rattus norvegicus GN=Myo1c PE=1 SV=2	sp|Q63355|MYO1C_RAT	0.00042
Cluster of sp|Q641Z6|EHD1_RAT EH domain-containing protein 1 OS=Rattus norvegicus GN=Ehd1 PE=1 SV=1 (sp|Q641Z6|EHD1_RAT)	sp|Q641Z6|EHD1_RAT [2]	0.00052
sp|Q641Z6|EHD1_RAT EH domain-containing protein 1 OS=Rattus norvegicus GN=Ehd1 PE=1 SV=1	sp|Q641Z6|EHD1_RAT	0.00037
sp|Q8R491|EHD3_RAT EH domain-containing protein 3 OS=Rattus norvegicus GN=Ehd3 PE=1 SV=2	sp|Q8R491|EHD3_RAT	0.00035
Cluster of sp|Q6URK4-2|ROA3_RAT Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3 OS=Rattus norvegicus GN=Hnrnpa3 (sp|Q6URK4-2|ROA3_RAT)	sp|Q6URK4-2|ROA3_RAT	0.0004
sp|Q6URK4-2|ROA3_RAT Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3 OS=Rattus norvegicus GN=Hnrnpa3	sp|Q6URK4-2|ROA3_RAT	0.0004
sp|Q80U96|XPO1_RAT Exportin-1 OS=Rattus norvegicus GN=Xpo1 PE=1 SV=1	sp|Q80U96|XPO1_RAT	0.00037
tr|B2GUZ3|B2GUZ3_RAT Mthfd1l protein OS=Rattus norvegicus GN=Mthfd1l PE=1 SV=1	tr|B2GUZ3|B2GUZ3_RAT	0.0004
tr|D3ZB30|D3ZB30_RAT Polypyrimidine tract binding protein 1, isoform CRA_c OS=Rattus norvegicus GN=Ptbp1 PE=1 SV=1	tr|D3ZB30|D3ZB30_RAT (+1)	0.0005
tr|F1LM66|F1LM66_RAT Protein Eftud2 OS=Rattus norvegicus GN=Eftud2 PE=1 SV=1	tr|F1LM66|F1LM66_RAT	0.00037

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|F1LPD6|F1LPD6_RAT 3-ketoacyl-CoA thiolase B, peroxisomal OS=Rattus norvegicus GN=Acaa1b PE=1 SV=2	tr|F1LPD6|F1LPD6_RAT	0.00047
tr|F1LPV0|F1LPV0_RAT Protein Nars OS=Rattus norvegicus GN=Nars PE=1 SV=2	tr|F1LPV0|F1LPV0_RAT	0.00035
tr|F8WFP9|F8WFP9_RAT ERO1-like protein alpha OS=Rattus norvegicus GN=Ero1a PE=1 SV=3	tr|F8WFP9|F8WFP9_RAT	0.00042
tr|Q6PCT9|Q6PCT9_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 6 OS=Rattus norvegicus GN=Psmd6 PE=1 SV=1	tr|Q6PCT9|Q6PCT9_RAT	0.00032
sp|P15650|ACADL_RAT Long-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Acadl PE=1 SV=1	sp|P15650|ACADL_RAT	0.00045
sp|P19511|AT5F1_RAT ATP synthase F(0) complex subunit B1, mitochondrial OS=Rattus norvegicus GN=Atp5f1 PE=1 SV=1	sp|P19511|AT5F1_RAT	0.0003
sp|Q04931|SSRP1_RAT FACT complex subunit SSRP1 OS=Rattus norvegicus GN=Ssrp1 PE=1 SV=2	sp|Q04931|SSRP1_RAT	0.00027
sp|Q5XIN6|LETM1_RAT LETM1 and EF-hand domain-containing protein 1, mitochondrial OS=Rattus norvegicus GN=Letm1 PE=1 SV=1	sp|Q5XIN6|LETM1_RAT	0.00042
sp|Q9ES21|SAC1_RAT Phosphatidylinositide phosphatase SAC1 OS=Rattus norvegicus GN=Sacm1l PE=1 SV=1	sp|Q9ES21|SAC1_RAT	0.00037
sp|Q9JM53|AIFM1_RAT Apoptosis-inducing factor 1, mitochondrial OS=Rattus norvegicus GN=Aifm1 PE=1 SV=1	sp|Q9JM53|AIFM1_RAT (+1)	0.00042
tr|D3ZQR7|D3ZQR7_RAT Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 OS=Rattus norvegicus GN=Plod2 PE=1 SV=1	tr|D3ZQR7|D3ZQR7_RAT (+1)	0.0004
tr|D3ZYS7|D3ZYS7_RAT Protein G3bp1 OS=Rattus norvegicus GN=G3bp1 PE=1 SV=1	tr|D3ZYS7|D3ZYS7_RAT	0.0004
tr|G3V7I3|G3V7I3_RAT Cation-transporting ATPase OS=Rattus norvegicus GN=Atp13a1 PE=1 SV=1	tr|G3V7I3|G3V7I3_RAT	0.00035
tr|G3V852|G3V852_RAT Protein Tln1 OS=Rattus norvegicus GN=Tln1 PE=1 SV=1	tr|G3V852|G3V852_RAT	0.0004
tr|G3V8T7|G3V8T7_RAT Protein Tdrkh OS=Rattus norvegicus GN=Tdrkh PE=1 SV=1	tr|G3V8T7|G3V8T7_RAT	0.00035
Cluster of sp|P28494|MA2A1_RAT Alpha-mannosidase 2 OS=Rattus norvegicus GN=Man2a1 PE=1 SV=2 (sp|P28494|MA2A1_RAT)	sp|P28494|MA2A1_RAT	0.00042
sp|P28494|MA2A1_RAT Alpha-mannosidase 2 OS=Rattus norvegicus GN=Man2a1 PE=1 SV=2	sp|P28494|MA2A1_RAT	0.00042
sp|P62755|RS6_RAT 40S ribosomal protein S6 OS=Rattus norvegicus GN=Rps6 PE=1 SV=1	sp|P62755|RS6_RAT	0.00037
sp|P63102|1433Z_RAT 14-3-3 protein zeta/delta OS=Rattus norvegicus GN=Ywhaz PE=1 SV=1	sp|P63102|1433Z_RAT	0.0006
sp|P67779|PHB_RAT Prohibitin OS=Rattus norvegicus GN=Phb PE=1 SV=1	sp|P67779|PHB_RAT	0.00037
sp|Q4G017|NISCH_RAT Nischarin OS=Rattus norvegicus GN=Nisch PE=2 SV=2	sp|Q4G017|NISCH_RAT	0.00027
sp|Q641X8|EIF3E_RAT Eukaryotic translation initiation factor 3 subunit E OS=Rattus norvegicus GN=Eif3e PE=2 SV=1	sp|Q641X8|EIF3E_RAT	0.00035
sp|Q6AXV4|SAM50_RAT Sorting and assembly machinery component 50 homolog OS=Rattus norvegicus GN=Samm50 PE=1 SV=1	sp|Q6AXV4|SAM50_RAT	0.00035
sp|Q9JJ22|ERAP1_RAT Endoplasmic reticulum aminopeptidase 1 OS=Rattus norvegicus GN=Erap1 PE=2 SV=2	sp|Q9JJ22|ERAP1_RAT (+1)	0.00042
tr|A0A0G2JSH6|A0A0G2JSH6_RAT Transient receptor potential cation channel subfamily V member 2 OS=Rattus norvegicus GN=Trpv2 PE=1 SV=1	tr|A0A0G2JSH6|A0A0G2JSH6_RAT	0.00037
tr|A0A0G2JZF0|A0A0G2JZF0_RAT Protein Sec24c OS=Rattus norvegicus GN=Sec24c PE=1 SV=1	tr|A0A0G2JZF0|A0A0G2JZF0_RAT (+1)	0.00037
tr|A0A0G2K9Q3|A0A0G2K9Q3_RAT N-alpha-acetyltransferase 25, NatB auxiliary subunit OS=Rattus norvegicus GN=Naa25 PE=1 SV=1	tr|A0A0G2K9Q3|A0A0G2K9Q3_RAT	0.00035
Cluster of tr|B5DES1|B5DES1_RAT 60S ribosomal protein L23a OS=Rattus norvegicus GN=Rpl23a PE=2 SV=1 (tr|B5DES1|B5DES1_RAT)	tr|B5DES1|B5DES1_RAT [3]	0.00037
tr|B5DES1|B5DES1_RAT 60S ribosomal protein L23a OS=Rattus norvegicus GN=Rpl23a PE=2 SV=1	tr|B5DES1|B5DES1_RAT (+2)	0.00037
tr|D4A6C5|D4A6C5_RAT Protein Arhgap1 OS=Rattus norvegicus GN=Arhgap1 PE=1 SV=1	tr|D4A6C5|D4A6C5_RAT	0.00035
tr|F1LQJ7|F1LQJ7_RAT Protein Pck2 OS=Rattus norvegicus GN=Pck2 PE=1 SV=2	tr|F1LQJ7|F1LQJ7_RAT	0.00035
tr|F1LRE1|F1LRE1_RAT Glutathione reductase OS=Rattus norvegicus GN=Gsr PE=1 SV=2	tr|F1LRE1|F1LRE1_RAT	0.00037
tr|F1LZW6|F1LZW6_RAT Protein Slc25a13 OS=Rattus norvegicus GN=Slc25a13 PE=1 SV=2	tr|F1LZW6|F1LZW6_RAT	0.00045
tr|Q5XIH3|Q5XIH3_RAT NADH dehydrogenase (Ubiquinone) flavoprotein 1 OS=Rattus norvegicus GN=Ndufv1 PE=1 SV=1	tr|Q5XIH3|Q5XIH3_RAT	0.00035
tr|Q8R3Z7|Q8R3Z7_RAT EH-domain containing 4 OS=Rattus norvegicus GN=Ehd4 PE=1 SV=1	tr|Q8R3Z7|Q8R3Z7_RAT	0.0005
sp|P10111|PPIA_RAT Peptidyl-prolyl cis-trans isomerase A OS=Rattus norvegicus GN=Ppia PE=1 SV=2	sp|P10111|PPIA_RAT	0.00037
Cluster of sp|P11497-2|ACACA_RAT Isoform 2 of Acetyl-CoA carboxylase 1 OS=Rattus norvegicus GN=Acaca (sp|P11497-2|ACACA_RAT)	sp|P11497-2|ACACA_RAT [2]	0.0003
sp|P11497-2|ACACA_RAT Isoform 2 of Acetyl-CoA carboxylase 1 OS=Rattus norvegicus GN=Acaca	sp|P11497-2|ACACA_RAT (+1)	0.0003
sp|P49088|ASNS_RAT Asparagine synthetase [glutamine-hydrolyzing] OS=Rattus norvegicus GN=Asns PE=2 SV=3	sp|P49088|ASNS_RAT	0.00032
sp|P62271|RS18_RAT 40S ribosomal protein S18 OS=Rattus norvegicus GN=Rps18 PE=1 SV=3	sp|P62271|RS18_RAT (+2)	0.00035
sp|Q5RJR8|LRC59_RAT Leucine-rich repeat-containing protein 59 OS=Rattus norvegicus GN=Lrrc59 PE=1 SV=1	sp|Q5RJR8|LRC59_RAT	0.00032
sp|Q5RKI0|WDR1_RAT WD repeat-containing protein 1 OS=Rattus norvegicus GN=Wdr1 PE=1 SV=3	sp|Q5RKI0|WDR1_RAT	0.00027
sp|Q5XIH7|PHB2_RAT Prohibitin-2 OS=Rattus norvegicus GN=Phb2 PE=1 SV=1	sp|Q5XIH7|PHB2_RAT (+1)	0.0003
sp|Q64232|TECR_RAT Very-long-chain enoyl-CoA reductase OS=Rattus norvegicus GN=Tecr PE=1 SV=1	sp|Q64232|TECR_RAT	0.00035
sp|Q6AXS5|PAIRB_RAT Plasminogen activator inhibitor 1 RNA-binding protein OS=Rattus norvegicus GN=Serbp1 PE=1 SV=2	sp|Q6AXS5|PAIRB_RAT	0.00042
tr|A9CMB7|A9CMB7_RAT Aspartate--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Dars PE=1 SV=1	tr|A9CMB7|A9CMB7_RAT	0.00035
Cluster of tr|D3ZHB3|D3ZHB3_RAT 40S ribosomal protein S12 OS=Rattus norvegicus GN=LOC100360573 PE=3 SV=3 (tr|D3ZHB3|D3ZHB3_RAT)	tr|D3ZHB3|D3ZHB3_RAT [2]	0.00027
tr|D3ZHB3|D3ZHB3_RAT 40S ribosomal protein S12 OS=Rattus norvegicus GN=LOC100360573 PE=3 SV=3	tr|D3ZHB3|D3ZHB3_RAT (+1)	0.00027
tr|D3ZUV3|D3ZUV3_RAT Eukaryotic translation initiation factor 2 subunit 1 OS=Rattus norvegicus GN=Eif2a PE=1 SV=3	tr|D3ZUV3|D3ZUV3_RAT	0.00032
tr|Q6P6T9|Q6P6T9_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna2 PE=2 SV=1	tr|Q6P6T9|Q6P6T9_RAT	0.0003
Cluster of sp|P13832|MRLCA_RAT Myosin regulatory light chain RLC-A OS=Rattus norvegicus GN=Rlc-a PE=2 SV=2 (sp|P13832|MRLCA_RAT)	sp|P13832|MRLCA_RAT [3]	0.00037
sp|P13832|MRLCA_RAT Myosin regulatory light chain RLC-A OS=Rattus norvegicus GN=Rlc-a PE=2 SV=2	sp|P13832|MRLCA_RAT	0.0003
sp|P18666|ML12B_RAT Myosin regulatory light chain 12B OS=Rattus norvegicus GN=Myl12b PE=1 SV=3	sp|P18666|ML12B_RAT (+1)	0.00027
sp|P39052-3|DYN2_RAT Isoform 3 of Dynamin-2 OS=Rattus norvegicus GN=Dnm2	sp|P39052-3|DYN2_RAT (+2)	0.0007
Cluster of sp|P51583|PUR6_RAT Multifunctional protein ADE2 OS=Rattus norvegicus GN=Paics PE=1 SV=3 (sp|P51583|PUR6_RAT)	sp|P51583|PUR6_RAT	0.0003
sp|P51583|PUR6_RAT Multifunctional protein ADE2 OS=Rattus norvegicus GN=Paics PE=1 SV=3	sp|P51583|PUR6_RAT	0.0003
sp|P61314|RL15_RAT 60S ribosomal protein L15 OS=Rattus norvegicus GN=Rpl15 PE=1 SV=2	sp|P61314|RL15_RAT	0.00035
sp|P62919|RL8_RAT 60S ribosomal protein L8 OS=Rattus norvegicus GN=Rpl8 PE=2 SV=2	sp|P62919|RL8_RAT	0.0003
sp|P62982|RS27A_RAT Ubiquitin-40S ribosomal protein S27a OS=Rattus norvegicus GN=Rps27a PE=1 SV=2	sp|P62982|RS27A_RAT	0.00025
Cluster of sp|P63326|RS10_RAT 40S ribosomal protein S10 OS=Rattus norvegicus GN=Rps10 PE=2 SV=1 (sp|P63326|RS10_RAT)	sp|P63326|RS10_RAT [2]	0.00027
sp|P63326|RS10_RAT 40S ribosomal protein S10 OS=Rattus norvegicus GN=Rps10 PE=2 SV=1	sp|P63326|RS10_RAT (+1)	0.00027
sp|P97521|MCAT_RAT Mitochondrial carnitine/acylcarnitine carrier protein OS=Rattus norvegicus GN=Slc25a20 PE=1 SV=1	sp|P97521|MCAT_RAT	0.00032
Cluster of sp|Q63965|SFXN1_RAT Sideroflexin-1 OS=Rattus norvegicus GN=Sfxn1 PE=2 SV=4 (sp|Q63965|SFXN1_RAT)	sp|Q63965|SFXN1_RAT [2]	0.0004
sp|Q63965|SFXN1_RAT Sideroflexin-1 OS=Rattus norvegicus GN=Sfxn1 PE=2 SV=4	sp|Q63965|SFXN1_RAT	0.0004
tr|Q6AYS2|Q6AYS2_RAT Sideroflexin OS=Rattus norvegicus GN=Sfxn1 PE=1 SV=1	tr|Q6AYS2|Q6AYS2_RAT	0.00032

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q68FX0|IDH3B_RAT Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial OS=Rattus norvegicus GN=Idh3B PE=2 SV=1	sp|Q68FX0|IDH3B_RAT	0.00035
sp|Q9ER24|ATX10_RAT Ataxin-10 OS=Rattus norvegicus GN=Atxn10 PE=1 SV=1	sp|Q9ER24|ATX10_RAT	0.0003
sp|Q9QZA2|PDC6I_RAT Programmed cell death 6-interacting protein OS=Rattus norvegicus GN=Pdcd6ip PE=1 SV=2	sp|Q9QZA2|PDC6I_RAT	0.00035
tr|A0A0G2JZ52|A0A0G2JZ52_RAT Protein Hnrnpu OS=Rattus norvegicus GN=Hnrnpu PE=1 SV=1	tr|A0A0G2JZ52|A0A0G2JZ52_RAT (+1)	0.00035
tr|F2Z3T7|F2Z3T7_RAT Protein LOC103694869 OS=Rattus norvegicus GN=LOC103694869 PE=1 SV=1	tr|F2Z3T7|F2Z3T7_RAT	0.00035
tr|G3V7G9|G3V7G9_RAT Eukaryotic translation initiation factor 3, subunit 6 interacting protein OS=Rattus norvegicus GN=Eif3l PE=1 SV=2	tr|G3V7G9|G3V7G9_RAT	0.00042
tr|Q5BJT9|Q5BJT9_RAT Creatine kinase, mitochondrial 1, ubiquitous OS=Rattus norvegicus GN=Ckmt1b PE=1 SV=1	tr|Q5BJT9|Q5BJT9_RAT	0.0003
tr|Q5U1W6|Q5U1W6_RAT Apolipoprotein O-like OS=Rattus norvegicus GN=Apool PE=1 SV=1	tr|Q5U1W6|Q5U1W6_RAT	0.00037
Cluster of sp|B3GNI6-2|SEP11_RAT Isoform 2 of Septin-11 OS=Rattus norvegicus GN=Sept11 (sp|B3GNI6-2|SEP11_RAT)	sp|B3GNI6-2|SEP11_RAT [6]	0.00047
sp|B3GNI6-2|SEP11_RAT Isoform 2 of Septin-11 OS=Rattus norvegicus GN=Sept11	sp|B3GNI6-2|SEP11_RAT (+3)	0.00045
tr|A0A0U1RRT8|A0A0U1RRT8_RAT Protein Sept6 OS=Rattus norvegicus GN=Sept6 PE=4 SV=1	tr|A0A0U1RRT8|A0A0U1RRT8_RAT (+1)	0.0002
sp|P35427|RL13A_RAT 60S ribosomal protein L13a OS=Rattus norvegicus GN=Rpl13a PE=1 SV=2	sp|P35427|RL13A_RAT (+1)	0.00027
sp|P85834|EFTU_RAT Elongation factor Tu, mitochondrial OS=Rattus norvegicus GN=Tufm PE=1 SV=1	sp|P85834|EFTU_RAT	0.00032
Cluster of sp|Q08163|CAP1_RAT Adenylyl cyclase-associated protein 1 OS=Rattus norvegicus GN=Cap1 PE=1 SV=3 (sp|Q08163|CAP1_RAT)	sp|Q08163|CAP1_RAT	0.00025
sp|Q08163|CAP1_RAT Adenylyl cyclase-associated protein 1 OS=Rattus norvegicus GN=Cap1 PE=1 SV=3	sp|Q08163|CAP1_RAT	0.00025
Cluster of sp|Q5FVI6|VATC1_RAT V-type proton ATPase subunit C 1 OS=Rattus norvegicus GN=Atp6v1c1 PE=2 SV=1 (sp|Q5FVI6|VATC1_RAT)	sp|Q5FVI6|VATC1_RAT	0.0004
sp|Q5FVI6|VATC1_RAT V-type proton ATPase subunit C 1 OS=Rattus norvegicus GN=Atp6v1c1 PE=2 SV=1	sp|Q5FVI6|VATC1_RAT	0.0004
sp|Q68FS4-2|AMPL_RAT Isoform 2 of Cytosol aminopeptidase OS=Rattus norvegicus GN=Lap3	sp|Q68FS4-2|AMPL_RAT	0.0003
sp|Q99ML5|PCYOX_RAT Prenylcysteine oxidase OS=Rattus norvegicus GN=Pcyox1 PE=1 SV=1	sp|Q99ML5|PCYOX_RAT	0.00032
Cluster of tr|A0A0G2JZT5|A0A0G2JZT5_RAT Septin-7 OS=Rattus norvegicus GN=Sept7 PE=1 SV=1 (tr|A0A0G2JZT5|A0A0G2JZT5_RAT)	tr|A0A0G2JZT5|A0A0G2JZT5_RAT [2]	0.00042
tr|A0A0G2JZT5|A0A0G2JZT5_RAT Septin-7 OS=Rattus norvegicus GN=Sept7 PE=1 SV=1	tr|A0A0G2JZT5|A0A0G2JZT5_RAT	0.00042
tr|D4A0F5|D4A0F5_RAT Septin-7 OS=Rattus norvegicus GN=Sept7 PE=1 SV=3	tr|D4A0F5|D4A0F5_RAT	0.00042
tr|B2RYR8|B2RYR8_RAT 40S ribosomal protein S8 OS=Rattus norvegicus GN=Rps8 PE=2 SV=1	tr|B2RYR8|B2RYR8_RAT	0.00035
tr|G3V6H5|G3V6H5_RAT Mitochondrial 2-oxoglutarate/malate carrier protein OS=Rattus norvegicus GN=Slc25a11 PE=1 SV=1	tr|G3V6H5|G3V6H5_RAT	0.00035
tr|G3V6T7|G3V6T7_RAT Protein disulfide-isomerase A4 OS=Rattus norvegicus GN=Pdia4 PE=1 SV=1	tr|G3V6T7|G3V6T7_RAT	0.00032
tr|M0R5J4|M0R5J4_RAT Uncharacterized protein OS=Rattus norvegicus PE=3 SV=1	tr|M0R5J4|M0R5J4_RAT (+1)	0.00042
tr|Q4V8H5|Q4V8H5_RAT Aspartyl aminopeptidase OS=Rattus norvegicus GN=Dnpep PE=1 SV=1	tr|Q4V8H5|Q4V8H5_RAT	0.00037
sp|F1LNJ2|U520_RAT U5 small nuclear ribonucleoprotein 200 kDa helicase OS=Rattus norvegicus GN=Snrnp200 PE=1 SV=1	sp|F1LNJ2|U520_RAT (+1)	0.00037
Cluster of sp|P13084|NPM_RAT Nucleophosmin OS=Rattus norvegicus GN=Npm1 PE=1 SV=1 (sp|P13084|NPM_RAT)	sp|P13084|NPM_RAT	0.00027
sp|P13084|NPM_RAT Nucleophosmin OS=Rattus norvegicus GN=Npm1 PE=1 SV=1	sp|P13084|NPM_RAT	0.00027
sp|P14668|ANXA5_RAT Annexin A5 OS=Rattus norvegicus GN=Anxa5 PE=1 SV=3	sp|P14668|ANXA5_RAT	0.00032
sp|P32198|CPT1A_RAT Carnitine O-palmitoyltransferase 1, liver isoform OS=Rattus norvegicus GN=Cpt1a PE=1 SV=2	sp|P32198|CPT1A_RAT	0.00032
sp|P38656|LA_RAT Lupus La protein homolog OS=Rattus norvegicus GN=Ssb PE=1 SV=1	sp|P38656|LA_RAT (+1)	0.00032
sp|P49432|ODPB_RAT Pyruvate dehydrogenase E1 component subunit beta, mitochondrial OS=Rattus norvegicus GN=Pdhb PE=1 SV=2	sp|P49432|ODPB_RAT (+1)	0.00035
sp|P61354|RL27_RAT 60S ribosomal protein L27 OS=Rattus norvegicus GN=Rpl27 PE=2 SV=2	sp|P61354|RL27_RAT	0.00025
Cluster of sp|P62138|PP1A_RAT Serine/threonine-protein phosphatase PP1-alpha catalytic subunit OS=Rattus norvegicus GN=Ppp1ca PE=1 SV=1 (sp|P62138|PP1A_R	sp|P62138|PP1A_RAT [5]	0.0003
sp|P62138|PP1A_RAT Serine/threonine-protein phosphatase PP1-alpha catalytic subunit OS=Rattus norvegicus GN=Ppp1ca PE=1 SV=1	sp|P62138|PP1A_RAT	0.00025
sp|P62142|PP1B_RAT Serine/threonine-protein phosphatase PP1-beta catalytic subunit OS=Rattus norvegicus GN=Ppp1cb PE=1 SV=3	sp|P62142|PP1B_RAT	0.00022
sp|P63088-2|PP1G_RAT Isoform Gamma-2 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit OS=Rattus norvegicus GN=Ppp1cc	sp|P63088-2|PP1G_RAT (+2)	0.00025
sp|Q505J8|SYFA_RAT Phenylalanine--tRNA ligase alpha subunit OS=Rattus norvegicus GN=Farsa PE=1 SV=1	sp|Q505J8|SYFA_RAT	0.00037
sp|Q5XFX0|TAGL2_RAT Transgelin-2 OS=Rattus norvegicus GN=Tagln2 PE=1 SV=1	sp|Q5XFX0|TAGL2_RAT	0.00037
sp|Q5XI31|PIGS_RAT GPI transamidase component PIG-S OS=Rattus norvegicus GN=Pigs PE=2 SV=3	sp|Q5XI31|PIGS_RAT	0.00035
sp|Q62871-2|DC1I2_RAT Isoform 2B of Cytoplasmic dynein 1 intermediate chain 2 OS=Rattus norvegicus GN=Dync1i2	sp|Q62871-2|DC1I2_RAT (+1)	0.00035
sp|Q62950|DPYL1_RAT Dihydropyrimidinase-related protein 1 OS=Rattus norvegicus GN=Crmp1 PE=1 SV=1	sp|Q62950|DPYL1_RAT	0.00045
sp|Q75Q39|TOM70_RAT Mitochondrial import receptor subunit TOM70 OS=Rattus norvegicus GN=Tomm70a PE=1 SV=1	sp|Q75Q39|TOM70_RAT	0.0003
tr|A0A0G2K7E5|A0A0G2K7E5_RAT Voltage-dependent calcium channel subunit alpha-2/delta-1 OS=Rattus norvegicus GN=Cacna2d1 PE=1 SV=1	tr|A0A0G2K7E5|A0A0G2K7E5_RAT	0.0003
tr|D4A0T8|D4A0T8_RAT Protein Dhrs7 OS=Rattus norvegicus GN=Dhrs7 PE=1 SV=3	tr|D4A0T8|D4A0T8_RAT	0.00035
tr|F1LN59|F1LN59_RAT Protein Eif4g2 OS=Rattus norvegicus GN=Eif4g2 PE=1 SV=2	tr|F1LN59|F1LN59_RAT	0.00035
tr|M0R735|M0R735_RAT Heterogeneous nuclear ribonucleoprotein Q OS=Rattus norvegicus GN=Syncrip PE=1 SV=2	tr|M0R735|M0R735_RAT	0.00042
tr|M0RC73|M0RC73_RAT Protein Naa16 OS=Rattus norvegicus GN=Naa16 PE=1 SV=2	tr|M0RC73|M0RC73_RAT	0.0004
sp|B0BN93|PSD13_RAT 26S proteasome non-ATPase regulatory subunit 13 OS=Rattus norvegicus GN=Psmd13 PE=1 SV=1	sp|B0BN93|PSD13_RAT	0.00032
sp|P41123|RL13_RAT 60S ribosomal protein L13 OS=Rattus norvegicus GN=Rpl13 PE=1 SV=2	sp|P41123|RL13_RAT (+1)	0.00025
sp|P43138|APEX1_RAT DNA-(apurinic or apyrimidinic site) lyase OS=Rattus norvegicus GN=Apex1 PE=1 SV=2	sp|P43138|APEX1_RAT	0.0003
sp|P55161|NCKP1_RAT Nck-associated protein 1 OS=Rattus norvegicus GN=Nckap1 PE=2 SV=1	sp|P55161|NCKP1_RAT (+1)	0.0003
sp|Q3B8Q2|IF4A3_RAT Eukaryotic initiation factor 4A-III OS=Rattus norvegicus GN=Eif4a3 PE=1 SV=1	sp|Q3B8Q2|IF4A3_RAT	0.00037
sp|Q63083|NUCB1_RAT Nucleobindin-1 OS=Rattus norvegicus GN=Nucb1 PE=1 SV=1	sp|Q63083|NUCB1_RAT	0.00025
Cluster of sp|Q66HA6|ARL8B_RAT ADP-ribosylation factor-like protein 8B OS=Rattus norvegicus GN=Arl8b PE=2 SV=1 (sp|Q66HA6|ARL8B_RAT)	sp|Q66HA6|ARL8B_RAT [2]	0.00025
sp|Q66HA6|ARL8B_RAT ADP-ribosylation factor-like protein 8B OS=Rattus norvegicus GN=Arl8b PE=2 SV=1	sp|Q66HA6|ARL8B_RAT	0.00017
tr|D3ZPP2|D3ZPP2_RAT Protein Arl8a OS=Rattus norvegicus GN=Arl8a PE=1 SV=1	tr|D3ZPP2|D3ZPP2_RAT	0.00017
Cluster of tr|A0A0G2K4X1|A0A0G2K4X1_RAT Protein RT1-A1 OS=Rattus norvegicus GN=RT1-A1 PE=1 SV=1 (tr|A0A0G2K4X1|A0A0G2K4X1_RAT)	tr|A0A0G2K4X1|A0A0G2K4X1_RAT [8]	0.00027
tr|A0A0G2K4X1|A0A0G2K4X1_RAT Protein RT1-A1 OS=Rattus norvegicus GN=RT1-A1 PE=1 SV=1	tr|A0A0G2K4X1|A0A0G2K4X1_RAT (+1)	0.00022
sp|P16391|HA12_RAT RT1 class I histocompatibility antigen, AA alpha chain OS=Rattus norvegicus PE=1 SV=2	sp|P16391|HA12_RAT	0.0001
tr|A0A0G2K8R6|A0A0G2K8R6_RAT Protein RT1-CE12 OS=Rattus norvegicus GN=RT1-CE2 PE=3 SV=1	tr|A0A0G2K8R6|A0A0G2K8R6_RAT (+2)	0.0001
tr|A0A0G2K7F4|A0A0G2K7F4_RAT Protein RT1-CE16 (Fragment) OS=Rattus norvegicus GN=RT1-CE16 PE=1 SV=1	tr|A0A0G2K7F4|A0A0G2K7F4_RAT (+1)	0.000075
tr|A0A0U1RS25|A0A0U1RS25_RAT Protein Upf1 OS=Rattus norvegicus GN=Upf1 PE=4 SV=1	tr|A0A0U1RS25|A0A0U1RS25_RAT (+1)	0.00025

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|B0BNG3|B0BNG3_RAT Lman2 protein OS=Rattus norvegicus GN=Lman2 PE=1 SV=1	tr|B0BNG3|B0BNG3_RAT	0.00032
tr|D3ZAZ0|D3ZAZ0_RAT Eukaryotic translation initiation factor 3 subunit M OS=Rattus norvegicus GN=Eif3m PE=1 SV=1	tr|D3ZAZ0|D3ZAZ0_RAT	0.00027
tr|D3ZMY7|D3ZMY7_RAT Protein Nt5c2 OS=Rattus norvegicus GN=Nt5c2 PE=1 SV=3	tr|D3ZMY7|D3ZMY7_RAT	0.00032
tr|D4A4J0|D4A4J0_RAT Protein Supt16h OS=Rattus norvegicus GN=Supt16h PE=1 SV=1	tr|D4A4J0|D4A4J0_RAT	0.00032
tr|D4A864|D4A864_RAT Polypeptide N-acetylgalactosaminyltransferase OS=Rattus norvegicus GN=Galnt6 PE=3 SV=1	tr|D4A864|D4A864_RAT	0.00035
tr|D4AEH3|D4AEH3_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 7 (Predicted) OS=Rattus norvegicus GN=Psmd7 PE=1 SV=1	tr|D4AEH3|D4AEH3_RAT	0.00025
tr|F1M3J4|F1M3J4_RAT Protein Abcc4 OS=Rattus norvegicus GN=Abcc4 PE=1 SV=3	tr|F1M3J4|F1M3J4_RAT	0.00027
tr|Q5I0F0|Q5I0F0_RAT Developmentally regulated GTP binding protein 1 OS=Rattus norvegicus GN=Drg1 PE=1 SV=1	tr|Q5I0F0|Q5I0F0_RAT	0.00032
tr|Q5M7T6|Q5M7T6_RAT ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1 OS=Rattus norvegicus GN=Atp6v0d1 PE=1 SV=1	tr|Q5M7T6|Q5M7T6_RAT	0.00032
sp|B2GUV7|IF2P_RAT Eukaryotic translation initiation factor 5B OS=Rattus norvegicus GN=Eif5b PE=1 SV=1	sp|B2GUV7|IF2P_RAT (+1)	0.00032
sp|D3ZHA0|FLNC_RAT Filamin-C OS=Rattus norvegicus GN=Flnc PE=1 SV=1	sp|D3ZHA0|FLNC_RAT (+1)	0.0004
Cluster of sp|P05712|RAB2A_RAT Ras-related protein Rab-2A OS=Rattus norvegicus GN=Rab2a PE=2 SV=1 (sp|P05712|RAB2A_RAT)	sp|P05712|RAB2A_RAT [2]	0.00032
sp|P05712|RAB2A_RAT Ras-related protein Rab-2A OS=Rattus norvegicus GN=Rab2a PE=2 SV=1	sp|P05712|RAB2A_RAT	0.0003
tr|Q3B7V5|Q3B7V5_RAT Protein Rab2b OS=Rattus norvegicus GN=Rab2b PE=1 SV=1	tr|Q3B7V5|Q3B7V5_RAT	0.00015
sp|P10760|SAHH_RAT Adenosylhomocysteinase OS=Rattus norvegicus GN=Ahcy PE=1 SV=3	sp|P10760|SAHH_RAT	0.00032
Cluster of sp|P16617|PGK1_RAT Phosphoglycerate kinase 1 OS=Rattus norvegicus GN=Pgk1 PE=1 SV=2 (sp|P16617|PGK1_RAT)	sp|P16617|PGK1_RAT	0.00027
sp|P16617|PGK1_RAT Phosphoglycerate kinase 1 OS=Rattus norvegicus GN=Pgk1 PE=1 SV=2	sp|P16617|PGK1_RAT	0.00027
sp|P16970|ABCD3_RAT ATP-binding cassette sub-family D member 3 OS=Rattus norvegicus GN=Abcd3 PE=1 SV=3	sp|P16970|ABCD3_RAT	0.00027
sp|P18484|AP2A2_RAT AP-2 complex subunit alpha-2 OS=Rattus norvegicus GN=Ap2a2 PE=1 SV=3	sp|P18484|AP2A2_RAT (+1)	0.00045
sp|P24329|THTR_RAT Thiosulfate sulfurtransferase OS=Rattus norvegicus GN=Tst PE=1 SV=3	sp|P24329|THTR_RAT	0.00032
sp|P60123|RUVB1_RAT RuvB-like 1 OS=Rattus norvegicus GN=Ruvbl1 PE=1 SV=1	sp|P60123|RUVB1_RAT	0.0003
sp|P85845|FSCN1_RAT Fascin OS=Rattus norvegicus GN=Fscn1 PE=1 SV=2	sp|P85845|FSCN1_RAT	0.0003
sp|Q498R3|DJC10_RAT DnaJ homolog subfamily C member 10 OS=Rattus norvegicus GN=Dnajc10 PE=2 SV=2	sp|Q498R3|DJC10_RAT	0.00025
sp|Q64537|CPNS1_RAT Calpain small subunit 1 OS=Rattus norvegicus GN=Capns1 PE=1 SV=3	sp|Q64537|CPNS1_RAT (+1)	0.00017
sp|Q6AYK8|EIF3D_RAT Eukaryotic translation initiation factor 3 subunit D OS=Rattus norvegicus GN=Eif3d PE=1 SV=1	sp|Q6AYK8|EIF3D_RAT	0.0003
tr|A0A0G2JSS9|A0A0G2JSS9_RAT Atlastin-3 OS=Rattus norvegicus GN=Atl3 PE=1 SV=1	tr|A0A0G2JSS9|A0A0G2JSS9_RAT	0.00032
tr|D3ZHW0|D3ZHW0_RAT Protein Dhx29 OS=Rattus norvegicus GN=Dhx29 PE=1 SV=2	tr|D3ZHW0|D3ZHW0_RAT	0.00027
tr|D3ZQ57|D3ZQ57_RAT Plexin B2 OS=Rattus norvegicus GN=Plxnb2 PE=1 SV=1	tr|D3ZQ57|D3ZQ57_RAT	0.0004
tr|D4A781|D4A781_RAT Protein Ipo5 OS=Rattus norvegicus GN=Ipo5 PE=1 SV=1	tr|D4A781|D4A781_RAT	0.00032
tr|F1M446|F1M446_RAT Protein AI314180 OS=Rattus norvegicus GN=AI314180 PE=1 SV=3	tr|F1M446|F1M446_RAT	0.00025
tr|G3V7T6|G3V7T6_RAT Protein Sf3b1 OS=Rattus norvegicus GN=Sf3b1 PE=1 SV=1	tr|G3V7T6|G3V7T6_RAT	0.00027
tr|G3V8G2|G3V8G2_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 5 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Psmd5 PE=1 SV=1	tr|G3V8G2|G3V8G2_RAT	0.0003
tr|G3V8G5|G3V8G5_RAT Golgi apparatus protein 1 OS=Rattus norvegicus GN=Glg1 PE=1 SV=1	tr|G3V8G5|G3V8G5_RAT	0.00025
sp|B2GV06|SCOT1_RAT Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial OS=Rattus norvegicus GN=Oxct1 PE=1 SV=1	sp|B2GV06|SCOT1_RAT	0.00017
sp|O08700|VPS45_RAT Vacuolar protein sorting-associated protein 45 OS=Rattus norvegicus GN=Vps45 PE=1 SV=1	sp|O08700|VPS45_RAT	0.0003
sp|P08461|ODP2_RAT Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial OS=Rattus norvegicus GN=Dlat P	sp|P08461|ODP2_RAT	0.00027
sp|P09527|RAB7A_RAT Ras-related protein Rab-7a OS=Rattus norvegicus GN=Rab7a PE=1 SV=2	sp|P09527|RAB7A_RAT	0.00022
sp|P17077|RL9_RAT 60S ribosomal protein L9 OS=Rattus norvegicus GN=Rpl9 PE=1 SV=1	sp|P17077|RL9_RAT (+1)	0.00027
sp|P18163|ACSL1_RAT Long-chain-fatty-acid--CoA ligase 1 OS=Rattus norvegicus GN=Acsl1 PE=1 SV=1	sp|P18163|ACSL1_RAT	0.00042
sp|P20673|ARLY_RAT Argininosuccinate lyase OS=Rattus norvegicus GN=Asl PE=2 SV=1	sp|P20673|ARLY_RAT	0.0002
sp|P62198|PRS8_RAT 26S protease regulatory subunit 8 OS=Rattus norvegicus GN=Psmc5 PE=1 SV=1	sp|P62198|PRS8_RAT	0.0003
Cluster of sp|P62961|YBOX1_RAT Nuclease-sensitive element-binding protein 1 OS=Rattus norvegicus GN=Ybx1 PE=2 SV=3 (sp|P62961|YBOX1_RAT)	sp|P62961|YBOX1_RAT [7]	0.0002
sp|P62961|YBOX1_RAT Nuclease-sensitive element-binding protein 1 OS=Rattus norvegicus GN=Ybx1 PE=2 SV=3	sp|P62961|YBOX1_RAT (+1)	0.00017
tr|D4A3P0|D4A3P0_RAT Protein Ybx2 OS=Rattus norvegicus GN=Ybx2 PE=1 SV=1	tr|D4A3P0|D4A3P0_RAT	0.000075
sp|Q62764-2|YBOX3_RAT Isoform 2 of Y-box-binding protein 3 OS=Rattus norvegicus GN=Ybx3	sp|Q62764-2|YBOX3_RAT (+3)	0.0001
sp|Q07009|CAN2_RAT Calpain-2 catalytic subunit OS=Rattus norvegicus GN=Capn2 PE=1 SV=3	sp|Q07009|CAN2_RAT	0.00025
Cluster of sp|Q62636|RAP1B_RAT Ras-related protein Rap-1b OS=Rattus norvegicus GN=Rap1b PE=1 SV=2 (sp|Q62636|RAP1B_RAT)	sp|Q62636|RAP1B_RAT [2]	0.00022
sp|Q62636|RAP1B_RAT Ras-related protein Rap-1b OS=Rattus norvegicus GN=Rap1b PE=1 SV=2	sp|Q62636|RAP1B_RAT	0.00017
sp|P62836|RAP1A_RAT Ras-related protein Rap-1A OS=Rattus norvegicus GN=Rap1a PE=1 SV=1	sp|P62836|RAP1A_RAT	0.00017
Cluster of sp|Q6IMF3|K2C1_RAT Keratin, type II cytoskeletal 1 OS=Rattus norvegicus GN=Krt1 PE=2 SV=1 (sp|Q6IMF3|K2C1_RAT)	sp|Q6IMF3|K2C1_RAT [7]	0.00027
sp|Q6IMF3|K2C1_RAT Keratin, type II cytoskeletal 1 OS=Rattus norvegicus GN=Krt1 PE=2 SV=1	sp|Q6IMF3|K2C1_RAT (+1)	0.00012
sp|Q6IG00|K2C4_RAT Keratin, type II cytoskeletal 4 OS=Rattus norvegicus GN=Krt4 PE=3 SV=1	sp|Q6IG00|K2C4_RAT (+1)	0.000025
sp|Q4FZU2|K2C6A_RAT Keratin, type II cytoskeletal 6A OS=Rattus norvegicus GN=Krt6a PE=1 SV=1	sp|Q4FZU2|K2C6A_RAT	0.0001
sp|Q6IG05|K2C75_RAT Keratin, type II cytoskeletal 75 OS=Rattus norvegicus GN=Krt75 PE=3 SV=2	sp|Q6IG05|K2C75_RAT (+1)	0.00015
sp|Q6P7A9|LYAG_RAT Lysosomal alpha-glucosidase OS=Rattus norvegicus GN=Gaa PE=2 SV=1	sp|Q6P7A9|LYAG_RAT	0.00025
sp|Q9Z2S9-2|FLOT2_RAT Isoform 2 of Flotillin-2 OS=Rattus norvegicus GN=Flot2	sp|Q9Z2S9-2|FLOT2_RAT (+4)	0.00025
tr|A0A0G2JSK5|A0A0G2JSK5_RAT Integrin beta 1 (Fibronectin receptor beta) OS=Rattus norvegicus GN=Itgb1 PE=1 SV=1	tr|A0A0G2JSK5|A0A0G2JSK5_RAT	0.00022
tr|A0A0G2QC02|A0A0G2QC02_RAT Protein Skiv2l OS=Rattus norvegicus GN=Skiv2l PE=1 SV=1	tr|A0A0G2QC02|A0A0G2QC02_RAT	0.0003
tr|A0A0G2QC06|A0A0G2QC06_RAT Serotransferrin OS=Rattus norvegicus GN=Tf PE=1 SV=1	tr|A0A0G2QC06|A0A0G2QC06_RAT	0.00025
tr|B2GV73|B2GV73_RAT Actin-related protein 2/3 complex subunit 3 OS=Rattus norvegicus GN=Arpc3 PE=1 SV=1	tr|B2GV73|B2GV73_RAT	0.00027
tr|D3ZCT7|D3ZCT7_RAT Protein Sec23b OS=Rattus norvegicus GN=Sec23b PE=1 SV=2	tr|D3ZCT7|D3ZCT7_RAT	0.00045
tr|D3ZFP4|D3ZFP4_RAT DNA helicase OS=Rattus norvegicus GN=Mcm3 PE=1 SV=3	tr|D3ZFP4|D3ZFP4_RAT	0.00022
tr|D4A4Z9|D4A4Z9_RAT Protein Ktn1 OS=Rattus norvegicus GN=Ktn1 PE=1 SV=2	tr|D4A4Z9|D4A4Z9_RAT	0.0003
tr|G3V7M0|G3V7M0_RAT Protein Cnot1 OS=Rattus norvegicus GN=Cnot1 PE=1 SV=1	tr|G3V7M0|G3V7M0_RAT	0.00032
sp|O35162|HSP13_RAT Heat shock 70 kDa protein 13 OS=Rattus norvegicus GN=Hspa13 PE=2 SV=2	sp|O35162|HSP13_RAT (+1)	0.00022

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

Cluster of sp|P15791-2|KCC2D_RAT Isoform Delta 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta OS=Rattus norvegicus GN=Camk2d (sp|P15	sp|P15791-2|KCC2D_RAT [13]	0.00035
sp|P15791-2|KCC2D_RAT Isoform Delta 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta OS=Rattus norvegicus GN=Camk2d	sp|P15791-2|KCC2D_RAT (+6)	0.00017
sp|P08413|KCC2B_RAT Calcium/calmodulin-dependent protein kinase type II subunit beta OS=Rattus norvegicus GN=Camk2b PE=1 SV=1	sp|P08413|KCC2B_RAT (+2)	0.0002
sp|P11730-2|KCC2G_RAT Isoform B of Calcium/calmodulin-dependent protein kinase type II subunit gamma OS=Rattus norvegicus GN=Camk2g	sp|P11730-2|KCC2G_RAT (+2)	0.00017
sp|P63004|LIS1_RAT Platelet-activating factor acetylhydrolase IB subunit alpha OS=Rattus norvegicus GN=Pafah1b1 PE=1 SV=2	sp|P63004|LIS1_RAT	0.0003
sp|P68511|1433F_RAT 14-3-3 protein eta OS=Rattus norvegicus GN=Ywhah PE=1 SV=2	sp|P68511|1433F_RAT	0.00055
sp|Q4FZT0|STML2_RAT Stomatin-like protein 2, mitochondrial OS=Rattus norvegicus GN=Stoml2 PE=1 SV=1	sp|Q4FZT0|STML2_RAT	0.00032
sp|Q561S0|NDUAA_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial OS=Rattus norvegicus GN=Ndufa10 PE=1 SV=1	sp|Q561S0|NDUAA_RAT	0.0002
sp|Q64119|MYL6_RAT Myosin light polypeptide 6 OS=Rattus norvegicus GN=Myl6 PE=1 SV=3	sp|Q64119|MYL6_RAT (+2)	0.00022
sp|Q66H80|COPD_RAT Coatomer subunit delta OS=Rattus norvegicus GN=Arcn1 PE=2 SV=1	sp|Q66H80|COPD_RAT	0.00027
sp|Q66HG5|TM9S2_RAT Transmembrane 9 superfamily member 2 OS=Rattus norvegicus GN=Tm9sf2 PE=2 SV=1	sp|Q66HG5|TM9S2_RAT	0.00022
sp|Q6P7R8|DHB12_RAT Very-long-chain 3-oxoacyl-CoA reductase OS=Rattus norvegicus GN=Hsd17b12 PE=2 SV=1	sp|Q6P7R8|DHB12_RAT	0.00025
sp|Q6PST4|ATLA1_RAT Atlastin-1 OS=Rattus norvegicus GN=Atl1 PE=1 SV=1	sp|Q6PST4|ATLA1_RAT	0.00032
tr|A0A0G2K9J2|A0A0G2K9J2_RAT Protein Atp6v1h OS=Rattus norvegicus GN=Atp6v1h PE=1 SV=1	tr|A0A0G2K9J2|A0A0G2K9J2_RAT	0.00025
tr|A0A0G2K9V6|A0A0G2K9V6_RAT Threonine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Tars PE=1 SV=1	tr|A0A0G2K9V6|A0A0G2K9V6_RAT	0.00025
tr|A0A0H2UHG3|A0A0H2UHG3_RAT Cullin 5 OS=Rattus norvegicus GN=Cul5 PE=1 SV=1	tr|A0A0H2UHG3|A0A0H2UHG3_RAT	0.00025
tr|B5DFI9|B5DFI9_RAT Pdk3 protein OS=Rattus norvegicus GN=Pdk3 PE=2 SV=1	tr|B5DFI9|B5DFI9_RAT	0.00027
Cluster of tr|D3ZWL6|D3ZWL6_RAT Adenosylhomocysteinase OS=Rattus norvegicus GN=Ahcyl2 PE=1 SV=3 (tr|D3ZWL6|D3ZWL6_RAT)	tr|D3ZWL6|D3ZWL6_RAT [2]	0.00027
tr|D3ZWL6|D3ZWL6_RAT Adenosylhomocysteinase OS=Rattus norvegicus GN=Ahcyl2 PE=1 SV=3	tr|D3ZWL6|D3ZWL6_RAT	0.00025
sp|B5DFN2|SAHH2_RAT Adenosylhomocysteinase 2 OS=Rattus norvegicus GN=Ahcyl1 PE=1 SV=2	sp|B5DFN2|SAHH2_RAT	0.00022
tr|D4A857|D4A857_RAT Importin 9 (Predicted) OS=Rattus norvegicus GN=Ipo9 PE=1 SV=2	tr|D4A857|D4A857_RAT	0.00025
tr|Q68FT7|Q68FT7_RAT Phenylalanyl-tRNA synthetase, beta subunit OS=Rattus norvegicus GN=Farsb PE=1 SV=1	tr|Q68FT7|Q68FT7_RAT	0.00027
sp|D3ZAF6|ATPK_RAT ATP synthase subunit f, mitochondrial OS=Rattus norvegicus GN=Atp5j2 PE=1 SV=1	sp|D3ZAF6|ATPK_RAT	0.00025
Cluster of sp|O35509|RB11B_RAT Ras-related protein Rab-11B OS=Rattus norvegicus GN=Rab11b PE=1 SV=4 (sp|O35509|RB11B_RAT)	sp|O35509|RB11B_RAT [2]	0.00025
sp|O35509|RB11B_RAT Ras-related protein Rab-11B OS=Rattus norvegicus GN=Rab11b PE=1 SV=4	sp|O35509|RB11B_RAT	0.00022
sp|P62494|RB11A_RAT Ras-related protein Rab-11A OS=Rattus norvegicus GN=Rab11a PE=1 SV=3	sp|P62494|RB11A_RAT	0.00017
sp|P04762|CATA_RAT Catalase OS=Rattus norvegicus GN=Cat PE=1 SV=3	sp|P04762|CATA_RAT	0.00027
sp|P27008|PARP1_RAT Poly [ADP-ribose] polymerase 1 OS=Rattus norvegicus GN=Parp1 PE=1 SV=4	sp|P27008|PARP1_RAT	0.00022
Cluster of sp|P62246|RS15A_RAT 40S ribosomal protein S15a OS=Rattus norvegicus GN=Rps15a PE=1 SV=2 (sp|P62246|RS15A_RAT)	sp|P62246|RS15A_RAT	0.00022
sp|P62246|RS15A_RAT 40S ribosomal protein S15a OS=Rattus norvegicus GN=Rps15a PE=1 SV=2	sp|P62246|RS15A_RAT	0.00022
sp|P62718|RL18A_RAT 60S ribosomal protein L18a OS=Rattus norvegicus GN=Rpl18a PE=2 SV=1	sp|P62718|RL18A_RAT	0.00022
sp|P62912|RL32_RAT 60S ribosomal protein L32 OS=Rattus norvegicus GN=Rpl32 PE=1 SV=2	sp|P62912|RL32_RAT	0.00027
sp|Q62786|FPRP_RAT Prostaglandin F2 receptor negative regulator OS=Rattus norvegicus GN=Ptgfrn PE=1 SV=1	sp|Q62786|FPRP_RAT (+1)	0.00027
sp|Q62952-2|DPYL3_RAT Isoform 2 of Dihydropyrimidinase-related protein 3 OS=Rattus norvegicus GN=Dpysl3	sp|Q62952-2|DPYL3_RAT	0.0004
sp|Q66HC5|NUP93_RAT Nuclear pore complex protein Nup93 OS=Rattus norvegicus GN=Nup93 PE=1 SV=1	sp|Q66HC5|NUP93_RAT	0.00017
sp|Q68FU3|ETFB_RAT Electron transfer flavoprotein subunit beta OS=Rattus norvegicus GN=Etfb PE=2 SV=3	sp|Q68FU3|ETFB_RAT	0.00025
sp|Q9Z1E1|FLOT1_RAT Flotillin-1 OS=Rattus norvegicus GN=Flot1 PE=2 SV=2	sp|Q9Z1E1|FLOT1_RAT	0.00027
Cluster of tr|A0A0G2JU49|A0A0G2JU49_RAT Protein Mtx1 OS=Rattus norvegicus GN=Mtx1 PE=1 SV=1 (tr|A0A0G2JU49|A0A0G2JU49_RAT)	tr|A0A0G2JU49|A0A0G2JU49_RAT	0.00027
tr|A0A0G2JU49|A0A0G2JU49_RAT Protein Mtx1 OS=Rattus norvegicus GN=Mtx1 PE=1 SV=1	tr|A0A0G2JU49|A0A0G2JU49_RAT	0.00027
tr|A0A0H2UHD9|A0A0H2UHD9_RAT Nicalin OS=Rattus norvegicus GN=Ncln PE=1 SV=1	tr|A0A0H2UHD9|A0A0H2UHD9_RAT	0.00025
tr|D3ZJ32|D3ZJ32_RAT Protein Esyt2 OS=Rattus norvegicus GN=Esyt2 PE=1 SV=3	tr|D3ZJ32|D3ZJ32_RAT	0.00027
tr|D3ZZC1|D3ZZC1_RAT Protein Txndc5 OS=Rattus norvegicus GN=Txndc5 PE=1 SV=1	tr|D3ZZC1|D3ZZC1_RAT	0.00022
tr|D4A7I6|D4A7I6_RAT Protein RGD1309995 OS=Rattus norvegicus GN=RGD1309995 PE=1 SV=1	tr|D4A7I6|D4A7I6_RAT	0.0003
tr|F1LQB2|F1LQB2_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc3 PE=1 SV=1	tr|F1LQB2|F1LQB2_RAT	0.00025
Cluster of tr|F1MAA5|F1MAA5_RAT Protein Rangap1 OS=Rattus norvegicus GN=Rangap1 PE=1 SV=2 (tr|F1MAA5|F1MAA5_RAT)	tr|F1MAA5|F1MAA5_RAT	0.00025
tr|F1MAA5|F1MAA5_RAT Protein Rangap1 OS=Rattus norvegicus GN=Rangap1 PE=1 SV=2	tr|F1MAA5|F1MAA5_RAT	0.00025
tr|G3V6U3|G3V6U3_RAT Asparagine-linked glycosylation 2 homolog (Yeast, alpha-1,3-mannosyltransferase), isoform CRA_a OS=Rattus norvegicus GN=Alg2 PE=1 SV=	tr|G3V6U3|G3V6U3_RAT	0.00027
tr|G3V913|G3V913_RAT Heat shock 27kDa protein 1 OS=Rattus norvegicus GN=Hspb1 PE=1 SV=1	tr|G3V913|G3V913_RAT	0.00025
tr|O70534|O70534_RAT Delta-like 1 homolog (Drosophila) OS=Rattus norvegicus GN=Dlk1 PE=2 SV=1	tr|O70534|O70534_RAT	0.00022
tr|O89035|O89035_RAT Mitochondrial dicarboxylate carrier OS=Rattus norvegicus GN=Slc25a10 PE=1 SV=1	tr|O89035|O89035_RAT	0.00025
tr|Q66H61|Q66H61_RAT Glutaminyl-tRNA synthetase OS=Rattus norvegicus GN=Qars PE=1 SV=1	tr|Q66H61|Q66H61_RAT	0.00025
sp|B0K020|CISD1_RAT CDGSH iron-sulfur domain-containing protein 1 OS=Rattus norvegicus GN=Cisd1 PE=3 SV=1	sp|B0K020|CISD1_RAT	0.00025
sp|O35987|NSF1C_RAT NSFL1 cofactor p47 OS=Rattus norvegicus GN=Nsfl1c PE=1 SV=1	sp|O35987|NSF1C_RAT	0.0002
sp|P02401|RLA2_RAT 60S acidic ribosomal protein P2 OS=Rattus norvegicus GN=Rplp2 PE=1 SV=2	sp|P02401|RLA2_RAT	0.00025
Cluster of sp|P17074|RS19_RAT 40S ribosomal protein S19 OS=Rattus norvegicus GN=Rps19 PE=2 SV=3 (sp|P17074|RS19_RAT)	sp|P17074|RS19_RAT [3]	0.00025
sp|P17074|RS19_RAT 40S ribosomal protein S19 OS=Rattus norvegicus GN=Rps19 PE=2 SV=3	sp|P17074|RS19_RAT (+2)	0.00025
sp|P18421|PSB1_RAT Proteasome subunit beta type-1 OS=Rattus norvegicus GN=Psmb1 PE=1 SV=3	sp|P18421|PSB1_RAT (+1)	0.00027
sp|P23358|RL12_RAT 60S ribosomal protein L12 OS=Rattus norvegicus GN=Rpl12 PE=2 SV=1	sp|P23358|RL12_RAT	0.00025
sp|P29147|BDH_RAT D-beta-hydroxybutyrate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Bdh1 PE=1 SV=2	sp|P29147|BDH_RAT (+1)	0.00022
sp|P32089|TXTP_RAT Tricarboxylate transport protein, mitochondrial OS=Rattus norvegicus GN=Slc25a1 PE=1 SV=1	sp|P32089|TXTP_RAT	0.00025
sp|P36876|2ABA_RAT Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform OS=Rattus norvegicus GN=Ppp2r2a PE=2 SV=1	sp|P36876|2ABA_RAT	0.00025
Cluster of sp|P53676|AP3M1_RAT AP-3 complex subunit mu-1 OS=Rattus norvegicus GN=Ap3m1 PE=1 SV=1 (sp|P53676|AP3M1_RAT)	sp|P53676|AP3M1_RAT [2]	0.00025
sp|P53676|AP3M1_RAT AP-3 complex subunit mu-1 OS=Rattus norvegicus GN=Ap3m1 PE=1 SV=1	sp|P53676|AP3M1_RAT (+1)	0.00025
sp|P62282|RS11_RAT 40S ribosomal protein S11 OS=Rattus norvegicus GN=Rps11 PE=1 SV=3	sp|P62282|RS11_RAT	0.00025
sp|P62832|RL23_RAT 60S ribosomal protein L23 OS=Rattus norvegicus GN=Rpl23 PE=2 SV=1	sp|P62832|RL23_RAT	0.0002

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

Cluster of sp|Q4QQV3|F162A_RAT Protein FAM162A OS=Rattus norvegicus GN=Fam162a PE=2 SV=1 (sp|Q4QQV3|F162A_RAT)	sp|Q4QQV3|F162A_RAT	0.0003
sp|Q4QQV3|F162A_RAT Protein FAM162A OS=Rattus norvegicus GN=Fam162a PE=2 SV=1	sp|Q4QQV3|F162A_RAT	0.0003
sp|Q5XIE0|AN32E_RAT Acidic leucine-rich nuclear phosphoprotein 32 family member E OS=Rattus norvegicus GN=Anp32e PE=2 SV=1	sp|Q5XIE0|AN32E_RAT	0.00022
sp|Q5XIK2|TMX2_RAT Thioredoxin-related transmembrane protein 2 OS=Rattus norvegicus GN=Tmx2 PE=2 SV=1	sp|Q5XIK2|TMX2_RAT	0.00027
sp|Q63584|TMEDA_RAT Transmembrane emp24 domain-containing protein 10 OS=Rattus norvegicus GN=Tmed10 PE=1 SV=2	sp|Q63584|TMEDA_RAT	0.00025
sp|Q6AY86|VP26A_RAT Vacuolar protein sorting-associated protein 26A OS=Rattus norvegicus GN=Vps26a PE=1 SV=1	sp|Q6AY86|VP26A_RAT	0.0002
sp|Q9Z0V5|PRDX4_RAT Peroxiredoxin-4 OS=Rattus norvegicus GN=Prdx4 PE=2 SV=1	sp|Q9Z0V5|PRDX4_RAT	0.00035
sp|Q9Z270|VAPA_RAT Vesicle-associated membrane protein-associated protein A OS=Rattus norvegicus GN=Vapa PE=1 SV=3	sp|Q9Z270|VAPA_RAT	0.0003
tr|A0A0G2JWP8|A0A0G2JWP8_RAT DNA topoisomerase 2 OS=Rattus norvegicus GN=Top2a PE=1 SV=1	tr|A0A0G2JWP8|A0A0G2JWP8_RAT	0.00022
tr|D3Z941|D3Z941_RAT Protein Mars OS=Rattus norvegicus GN=Mars PE=1 SV=1	tr|D3Z941|D3Z941_RAT	0.00027
Cluster of tr|D3ZUJ8|D3ZUJ8_RAT Protein Tmtc3 OS=Rattus norvegicus GN=Tmtc3 PE=1 SV=1 (tr|D3ZUJ8|D3ZUJ8_RAT)	tr|D3ZUJ8|D3ZUJ8_RAT	0.00025
tr|D3ZUJ8|D3ZUJ8_RAT Protein Tmtc3 OS=Rattus norvegicus GN=Tmtc3 PE=1 SV=1	tr|D3ZUJ8|D3ZUJ8_RAT	0.00025
tr|D3ZW15|D3ZW15_RAT Protein Sec24b OS=Rattus norvegicus GN=Sec24b PE=1 SV=1	tr|D3ZW15|D3ZW15_RAT	0.00022
tr|D4A1Q9|D4A1Q9_RAT Protein Ttll12 OS=Rattus norvegicus GN=Ttll12 PE=1 SV=1	tr|D4A1Q9|D4A1Q9_RAT	0.00022
tr|D4A7R0|D4A7R0_RAT Signal recognition particle subunit SRP72 OS=Rattus norvegicus GN=Srp72 PE=1 SV=2	tr|D4A7R0|D4A7R0_RAT	0.00017
tr|D4A8H8|D4A8H8_RAT Cytoplasmic FMR1 interacting protein 1 (Predicted) OS=Rattus norvegicus GN=Cyfip1 PE=1 SV=1	tr|D4A8H8|D4A8H8_RAT	0.00037
tr|D4AE00|D4AE00_RAT AP-3 complex subunit beta OS=Rattus norvegicus GN=Ap3b2 PE=1 SV=1	tr|D4AE00|D4AE00_RAT	0.0003
tr|F1M062|F1M062_RAT Protein Larp1 OS=Rattus norvegicus GN=Larp1 PE=1 SV=3	tr|F1M062|F1M062_RAT	0.00022
tr|Q5PPJ6|Q5PPJ6_RAT Leucyl-tRNA synthetase OS=Rattus norvegicus GN=Lars PE=1 SV=1	tr|Q5PPJ6|Q5PPJ6_RAT	0.00022
tr|Q5U3Y8|Q5U3Y8_RAT Transcription factor BTF3 OS=Rattus norvegicus GN=Btf3 PE=1 SV=1	tr|Q5U3Y8|Q5U3Y8_RAT	0.00025
tr|Q5XIC6|Q5XIC6_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 12 OS=Rattus norvegicus GN=Psmd12 PE=1 SV=1	tr|Q5XIC6|Q5XIC6_RAT	0.00025
tr|Q7TP91|Q7TP91_RAT Ab1-205 OS=Rattus norvegicus GN=Surf4 PE=1 SV=1	tr|Q7TP91|Q7TP91_RAT	0.0003
sp|B5DF89|CUL3_RAT Cullin-3 OS=Rattus norvegicus GN=Cul3 PE=1 SV=2	sp|B5DF89|CUL3_RAT (+1)	0.00027
sp|P07340|AT1B1_RAT Sodium/potassium-transporting ATPase subunit beta-1 OS=Rattus norvegicus GN=Atp1b1 PE=1 SV=1	sp|P07340|AT1B1_RAT	0.00012
sp|P11240|COX5A_RAT Cytochrome c oxidase subunit 5A, mitochondrial OS=Rattus norvegicus GN=Cox5a PE=1 SV=1	sp|P11240|COX5A_RAT	0.00022
Cluster of sp|P12839|NFM_RAT Neurofilament medium polypeptide OS=Rattus norvegicus GN=Nefm PE=1 SV=4 (sp|P12839|NFM_RAT)	sp|P12839|NFM_RAT [3]	0.00022
sp|P12839|NFM_RAT Neurofilament medium polypeptide OS=Rattus norvegicus GN=Nefm PE=1 SV=4	sp|P12839|NFM_RAT	0.0001
sp|P31000|VIME_RAT Vimentin OS=Rattus norvegicus GN=Vim PE=1 SV=2	sp|P31000|VIME_RAT (+1)	0.00015
sp|P13471|RS14_RAT 40S ribosomal protein S14 OS=Rattus norvegicus GN=Rps14 PE=2 SV=3	sp|P13471|RS14_RAT (+1)	0.00025
sp|P52555|ERP29_RAT Endoplasmic reticulum resident protein 29 OS=Rattus norvegicus GN=Erp29 PE=1 SV=2	sp|P52555|ERP29_RAT	0.00027
sp|P62850-2|RS24_RAT Isoform 2 of 40S ribosomal protein S24 OS=Rattus norvegicus GN=Rps24	sp|P62850-2|RS24_RAT (+4)	0.00017
sp|P63086|MK01_RAT Mitogen-activated protein kinase 1 OS=Rattus norvegicus GN=Mapk1 PE=1 SV=3	sp|P63086|MK01_RAT	0.00035
sp|P85515|ACTZ_RAT Alpha-centractin OS=Rattus norvegicus GN=Actr1a PE=1 SV=1	sp|P85515|ACTZ_RAT	0.00055
sp|Q4KM74|SC22B_RAT Vesicle-trafficking protein SEC22b OS=Rattus norvegicus GN=Sec22b PE=1 SV=3	sp|Q4KM74|SC22B_RAT	0.00022
sp|Q5BJT7|CCD93_RAT Coiled-coil domain-containing protein 93 OS=Rattus norvegicus GN=Ccdc93 PE=1 SV=1	sp|Q5BJT7|CCD93_RAT	0.00027
sp|Q5U2X6|CCD47_RAT Coiled-coil domain-containing protein 47 OS=Rattus norvegicus GN=Ccdc47 PE=2 SV=1	sp|Q5U2X6|CCD47_RAT	0.0003
sp|Q6TUG0|DJB11_RAT DnaJ homolog subfamily B member 11 OS=Rattus norvegicus GN=Dnajb11 PE=2 SV=1	sp|Q6TUG0|DJB11_RAT	0.00022
sp|Q8CHN6|SGPL1_RAT Sphingosine-1-phosphate lyase 1 OS=Rattus norvegicus GN=Sgpl1 PE=2 SV=1	sp|Q8CHN6|SGPL1_RAT	0.00022
Cluster of tr|A0A0G2JTG7|A0A0G2JTG7_RAT Heterogeneous nuclear ribonucleoprotein H OS=Rattus norvegicus GN=Hnrnph1 PE=1 SV=1 (tr|A0A0G2JTG7|A0A0G2JTG	tr|A0A0G2JTG7|A0A0G2JTG7_RAT [2]	0.0002
tr|A0A0G2JTG7|A0A0G2JTG7_RAT Heterogeneous nuclear ribonucleoprotein H OS=Rattus norvegicus GN=Hnrnph1 PE=1 SV=1	tr|A0A0G2JTG7|A0A0G2JTG7_RAT	0.00017
sp|Q794E4|HNRPF_RAT Heterogeneous nuclear ribonucleoprotein F OS=Rattus norvegicus GN=Hnrnpf PE=1 SV=3	sp|Q794E4|HNRPF_RAT	0.000075
tr|B0BN81|B0BN81_RAT 40S ribosomal protein S5 OS=Rattus norvegicus GN=Rps5 PE=1 SV=1	tr|B0BN81|B0BN81_RAT	0.00027
tr|B2GV15|B2GV15_RAT Dihydrolipoamide branched chain transacylase E2 OS=Rattus norvegicus GN=Dbt PE=1 SV=1	tr|B2GV15|B2GV15_RAT	0.00025
tr|B2RYI2|B2RYI2_RAT Signal recognition particle subunit SRP68 OS=Rattus norvegicus GN=Srp68 PE=1 SV=1	tr|B2RYI2|B2RYI2_RAT	0.00027
tr|D3ZD23|D3ZD23_RAT ATP-binding cassette, sub-family E (OABP), member 1 OS=Rattus norvegicus GN=Abce1 PE=1 SV=1	tr|D3ZD23|D3ZD23_RAT	0.00022
tr|D4A2D7|D4A2D7_RAT Importin 4 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ipo4 PE=1 SV=2	tr|D4A2D7|D4A2D7_RAT	0.00022
tr|G3V6W6|G3V6W6_RAT Protein Psmc6 OS=Rattus norvegicus GN=Psmc6 PE=1 SV=1	tr|G3V6W6|G3V6W6_RAT	0.00022
tr|G3V7V3|G3V7V3_RAT Protein Slc27a4 OS=Rattus norvegicus GN=Slc27a4 PE=1 SV=1	tr|G3V7V3|G3V7V3_RAT	0.00027
sp|O88656|ARC1B_RAT Actin-related protein 2/3 complex subunit 1B OS=Rattus norvegicus GN=Arpc1b PE=1 SV=3	sp|O88656|ARC1B_RAT	0.00022
sp|P09034|ASSY_RAT Argininosuccinate synthase OS=Rattus norvegicus GN=Ass1 PE=1 SV=1	sp|P09034|ASSY_RAT	0.00017
sp|P18445|RL27A_RAT 60S ribosomal protein L27a OS=Rattus norvegicus GN=Rpl27a PE=1 SV=3	sp|P18445|RL27A_RAT (+1)	0.00017
sp|P20788|UCRI_RAT Cytochrome b-c1 complex subunit Rieske, mitochondrial OS=Rattus norvegicus GN=Uqcrfs1 PE=1 SV=2	sp|P20788|UCRI_RAT	0.00025
sp|P31977|EZRI_RAT Ezrin OS=Rattus norvegicus GN=Ezr PE=1 SV=3	sp|P31977|EZRI_RAT (+1)	0.00042
sp|P35213-2|1433B_RAT Isoform Short of 14-3-3 protein beta/alpha OS=Rattus norvegicus GN=Ywhab	sp|P35213-2|1433B_RAT (+1)	0.0005
sp|P56603|SCAM1_RAT Secretory carrier-associated membrane protein 1 OS=Rattus norvegicus GN=Scamp1 PE=1 SV=1	sp|P56603|SCAM1_RAT (+1)	0.00022
sp|P62890|RL30_RAT 60S ribosomal protein L30 OS=Rattus norvegicus GN=Rpl30 PE=3 SV=2	sp|P62890|RL30_RAT	0.00015
sp|P63174|RL38_RAT 60S ribosomal protein L38 OS=Rattus norvegicus GN=Rpl38 PE=1 SV=2	sp|P63174|RL38_RAT (+1)	0.00022
Cluster of sp|P68182|KAPCB_RAT cAMP-dependent protein kinase catalytic subunit beta OS=Rattus norvegicus GN=Prkacb PE=1 SV=2 (sp|P68182|KAPCB_RAT)	sp|P68182|KAPCB_RAT [4]	0.0002
sp|P68182|KAPCB_RAT cAMP-dependent protein kinase catalytic subunit beta OS=Rattus norvegicus GN=Prkacb PE=1 SV=2	sp|P68182|KAPCB_RAT	0.00015
sp|P27791-2|KAPCA_RAT Isoform 2 of cAMP-dependent protein kinase catalytic subunit alpha OS=Rattus norvegicus GN=Prkaca	sp|P27791-2|KAPCA_RAT (+2)	0.00012
sp|Q4VSI4|UBP7_RAT Ubiquitin carboxyl-terminal hydrolase 7 OS=Rattus norvegicus GN=Usp7 PE=1 SV=1	sp|Q4VSI4|UBP7_RAT (+1)	0.00022
sp|Q5EGY4|YKT6_RAT Synaptobrevin homolog YKT6 OS=Rattus norvegicus GN=Ykt6 PE=1 SV=1	sp|Q5EGY4|YKT6_RAT	0.0002
sp|Q5XIT9|MCCB_RAT Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial OS=Rattus norvegicus GN=Mccc2 PE=2 SV=1	sp|Q5XIT9|MCCB_RAT	0.0002
sp|Q63347|PRS7_RAT 26S protease regulatory subunit 7 OS=Rattus norvegicus GN=Psmc2 PE=1 SV=3	sp|Q63347|PRS7_RAT (+1)	0.0002
sp|Q63377|AT1B3_RAT Sodium/potassium-transporting ATPase subunit beta-3 OS=Rattus norvegicus GN=Atp1b3 PE=2 SV=1	sp|Q63377|AT1B3_RAT	0.0002

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q63570|PRS6B_RAT 26S protease regulatory subunit 6B OS=Rattus norvegicus GN=Psmc4 PE=1 SV=1	sp|Q63570|PRS6B_RAT	0.00022
sp|Q68FQ7|RPAP3_RAT RNA polymerase II-associated protein 3 OS=Rattus norvegicus GN=Rpap3 PE=1 SV=1	sp|Q68FQ7|RPAP3_RAT	0.00022
sp|Q6AXX6|F213A_RAT Redox-regulatory protein FAM213A OS=Rattus norvegicus GN=Fam213a PE=1 SV=1	sp|Q6AXX6|F213A_RAT	0.00025
sp|Q6AY30|SCPDL_RAT Saccharopine dehydrogenase-like oxidoreductase OS=Rattus norvegicus GN=Sccpdh PE=1 SV=1	sp|Q6AY30|SCPDL_RAT	0.00022
sp|Q6P799|SYSC_RAT Serine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Sars PE=1 SV=3	sp|Q6P799|SYSC_RAT (+1)	0.00017
sp|Q765A7|PGAP1_RAT GPI inositol-deacylase OS=Rattus norvegicus GN=Pgap1 PE=1 SV=1	sp|Q765A7|PGAP1_RAT	0.00022
sp|Q8CFN2|CDC42_RAT Cell division control protein 42 homolog OS=Rattus norvegicus GN=Cdc42 PE=1 SV=2	sp|Q8CFN2|CDC42_RAT	0.00022
sp|Q925S8|YMEL1_RAT ATP-dependent zinc metalloprotease YME1L1 OS=Rattus norvegicus GN=Yme1l1 PE=2 SV=1	sp|Q925S8|YMEL1_RAT (+1)	0.0002
sp|Q9EPF2-2|MUC18_RAT Isoform 2 of Cell surface glycoprotein MUC18 OS=Rattus norvegicus GN=Mcam	sp|Q9EPF2-2|MUC18_RAT (+1)	0.0002
sp|Q9JHU5|ARFP1_RAT Arfaptin-1 OS=Rattus norvegicus GN=Arfip1 PE=1 SV=1	sp|Q9JHU5|ARFP1_RAT (+1)	0.00017
sp|Q9JMJ4|PRP19_RAT Pre-mRNA-processing factor 19 OS=Rattus norvegicus GN=Prpf19 PE=1 SV=2	sp|Q9JMJ4|PRP19_RAT	0.00015
sp|Q9Z1M9|SMC1A_RAT Structural maintenance of chromosomes protein 1A OS=Rattus norvegicus GN=Smc1a PE=1 SV=1	sp|Q9Z1M9|SMC1A_RAT (+1)	0.00017
tr|A0A0G2JSR7|A0A0G2JSR7_RAT Matrin-3 OS=Rattus norvegicus GN=Matr3 PE=1 SV=1	tr|A0A0G2JSR7|A0A0G2JSR7_RAT	0.00025
tr|A0A0G2JWD6|A0A0G2JWD6_RAT AP-3 complex subunit beta OS=Rattus norvegicus GN=Ap3b1 PE=1 SV=1	tr|A0A0G2JWD6|A0A0G2JWD6_RAT	0.0003
tr|A0A0G2K0X5|A0A0G2K0X5_RAT Abhydrolase domain-containing protein 16A OS=Rattus norvegicus GN=Abhd16a PE=1 SV=1	tr|A0A0G2K0X5|A0A0G2K0X5_RAT	0.00025
tr|A0A0G2K2V2|A0A0G2K2V2_RAT AP complex subunit beta OS=Rattus norvegicus GN=Ap1b1 PE=1 SV=1	tr|A0A0G2K2V2|A0A0G2K2V2_RAT (+1)	0.0005
tr|A0A0G2K8K0|A0A0G2K8K0_RAT Protein Sfpq OS=Rattus norvegicus GN=Sfpq PE=1 SV=1	tr|A0A0G2K8K0|A0A0G2K8K0_RAT	0.00017
tr|A0A0H2UHE1|A0A0H2UHE1_RAT Succinate-CoA ligase, GDP-forming, alpha subunit, isoform CRA_b OS=Rattus norvegicus GN=Suclg1 PE=1 SV=1	tr|A0A0H2UHE1|A0A0H2UHE1_RAT	0.00022
tr|B2RYS2|B2RYS2_RAT Cytochrome b-c1 complex subunit 7 OS=Rattus norvegicus GN=Uqcrb PE=1 SV=1	tr|B2RYS2|B2RYS2_RAT	0.00022
tr|D3ZAA9|D3ZAA9_RAT Membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2), isoform CRA_a OS=Rattus norvegicus GN=Mpp2 PE=1 SV=2	tr|D3ZAA9|D3ZAA9_RAT	0.00015
tr|D3ZD73|D3ZD73_RAT Protein Ddx6 OS=Rattus norvegicus GN=Ddx6 PE=1 SV=1	tr|D3ZD73|D3ZD73_RAT	0.00022
tr|D3ZD97|D3ZD97_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 15 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Dhx15 PE=1 SV=1	tr|D3ZD97|D3ZD97_RAT	0.00017
tr|D3ZG43|D3ZG43_RAT NADH dehydrogenase (Ubiquinone) Fe-S protein 3 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ndufs3 PE=1 SV=1	tr|D3ZG43|D3ZG43_RAT	0.00022
tr|D3ZJX5|D3ZJX5_RAT Protein Timm50 OS=Rattus norvegicus GN=Timm50 PE=1 SV=2	tr|D3ZJX5|D3ZJX5_RAT	0.0002
tr|D3ZM21|D3ZM21_RAT Catechol-O-methyltransferase domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Comtd1 PE=1 SV=1	tr|D3ZM21|D3ZM21_RAT	0.00022
tr|D3ZP96|D3ZP96_RAT DNA helicase OS=Rattus norvegicus GN=Mcm2 PE=1 SV=2	tr|D3ZP96|D3ZP96_RAT	0.00017
tr|D3ZPN7|D3ZPN7_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|D3ZPN7|D3ZPN7_RAT (+1)	0.00027
tr|D3ZZA8|D3ZZA8_RAT Protein Sec24a OS=Rattus norvegicus GN=Sec24a PE=1 SV=1	tr|D3ZZA8|D3ZZA8_RAT	0.00025
tr|D4A9D8|D4A9D8_RAT Oxysterol-binding protein OS=Rattus norvegicus GN=Osbp PE=1 SV=2	tr|D4A9D8|D4A9D8_RAT	0.00025
tr|D4ABI7|D4ABI7_RAT Protein Hacd3 OS=Rattus norvegicus GN=Hacd3 PE=1 SV=2	tr|D4ABI7|D4ABI7_RAT	0.0002
tr|D4ACM1|D4ACM1_RAT Protein Elp3 OS=Rattus norvegicus GN=Elp3 PE=1 SV=2	tr|D4ACM1|D4ACM1_RAT	0.00022
tr|D4AE96|D4AE96_RAT Importin 7 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ipo7 PE=1 SV=1	tr|D4AE96|D4AE96_RAT	0.00017
Cluster of tr|F1LLX6|F1LLX6_RAT Calcium-dependent secretion activator 1 OS=Rattus norvegicus GN=Cadps PE=1 SV=2 (tr|F1LLX6|F1LLX6_RAT)	tr|F1LLX6|F1LLX6_RAT [2]	0.00022
tr|F1LLX6|F1LLX6_RAT Calcium-dependent secretion activator 1 OS=Rattus norvegicus GN=Cadps PE=1 SV=2	tr|F1LLX6|F1LLX6_RAT	0.00022
sp|Q62717|CAPS1_RAT Calcium-dependent secretion activator 1 OS=Rattus norvegicus GN=Cadps PE=1 SV=1	sp|Q62717|CAPS1_RAT	0.00017
tr|F1M1B3|F1M1B3_RAT Protein RGD1564420 OS=Rattus norvegicus GN=RGD1564420 PE=1 SV=2	tr|F1M1B3|F1M1B3_RAT	0.00032
Cluster of tr|F7EMB2|F7EMB2_RAT Protein RGD1304704 OS=Rattus norvegicus GN=RGD1304704 PE=1 SV=1 (tr|F7EMB2|F7EMB2_RAT)	tr|F7EMB2|F7EMB2_RAT [2]	0.00022
tr|F7EMB2|F7EMB2_RAT Protein RGD1304704 OS=Rattus norvegicus GN=RGD1304704 PE=1 SV=1	tr|F7EMB2|F7EMB2_RAT (+1)	0.00022
tr|G3V6L9|G3V6L9_RAT Peptidyl-prolyl cis-trans isomerase OS=Rattus norvegicus GN=Fkbp3 PE=1 SV=1	tr|G3V6L9|G3V6L9_RAT	0.0002
tr|G3V7B5|G3V7B5_RAT Phosphoribosyl pyrophosphate synthase-associated protein 1 OS=Rattus norvegicus GN=Prpsap1 PE=1 SV=1	tr|G3V7B5|G3V7B5_RAT	0.00027
tr|Q5M9F7|Q5M9F7_RAT ARP10 actin-related protein 10 homolog (S. cerevisiae) OS=Rattus norvegicus GN=Actr10 PE=1 SV=1	tr|Q5M9F7|Q5M9F7_RAT	0.0002
tr|Q5M9H7|Q5M9H7_RAT DnaJ (Hsp40) homolog, subfamily A, member 2 OS=Rattus norvegicus GN=Dnaja2 PE=1 SV=1	tr|Q5M9H7|Q5M9H7_RAT	0.00017
tr|Q68FS8|Q68FS8_RAT Protein Rtcd1 OS=Rattus norvegicus GN=Rtcd1 PE=1 SV=1	tr|Q68FS8|Q68FS8_RAT	0.0002
tr|Q6P685|Q6P685_RAT Eukaryotic translation initiation factor 2, subunit 2 (Beta) OS=Rattus norvegicus GN=Eif2s2 PE=1 SV=1	tr|Q6P685|Q6P685_RAT	0.00025
tr|Q8SEZ5|Q8SEZ5_RAT Cytochrome c oxidase subunit 2 OS=Rattus norvegicus GN=Mt-co2 PE=1 SV=1	tr|Q8SEZ5|Q8SEZ5_RAT	0.00022
sp|O08651|SERA_RAT D-3-phosphoglycerate dehydrogenase OS=Rattus norvegicus GN=Phgdh PE=1 SV=3	sp|O08651|SERA_RAT	0.00017
sp|O35077|GPDA_RAT Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic OS=Rattus norvegicus GN=Gpd1 PE=1 SV=4	sp|O35077|GPDA_RAT	0.00022
sp|O88941|MOGS_RAT Mannosyl-oligosaccharide glucosidase OS=Rattus norvegicus GN=Mogs PE=1 SV=1	sp|O88941|MOGS_RAT (+2)	0.00022
sp|P04256|ROA1_RAT Heterogeneous nuclear ribonucleoprotein A1 OS=Rattus norvegicus GN=Hnrnpa1 PE=1 SV=3	sp|P04256|ROA1_RAT (+2)	0.00025
sp|P07687|HYEP_RAT Epoxide hydrolase 1 OS=Rattus norvegicus GN=Ephx1 PE=1 SV=1	sp|P07687|HYEP_RAT	0.00022
Cluster of sp|P13596|NCAM1_RAT Neural cell adhesion molecule 1 OS=Rattus norvegicus GN=Ncam1 PE=1 SV=1 (sp|P13596|NCAM1_RAT)	sp|P13596|NCAM1_RAT [2]	0.0002
sp|P13596|NCAM1_RAT Neural cell adhesion molecule 1 OS=Rattus norvegicus GN=Ncam1 PE=1 SV=1	sp|P13596|NCAM1_RAT (+1)	0.0002
sp|P19637|TPA_RAT Tissue-type plasminogen activator OS=Rattus norvegicus GN=Plat PE=2 SV=2	sp|P19637|TPA_RAT	0.00022
sp|P20961|PAI1_RAT Plasminogen activator inhibitor 1 OS=Rattus norvegicus GN=Serpine1 PE=2 SV=1	sp|P20961|PAI1_RAT	0.0002
sp|P26772|CH10_RAT 10 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspe1 PE=1 SV=3	sp|P26772|CH10_RAT	0.00025
sp|P40112|PSB3_RAT Proteasome subunit beta type-3 OS=Rattus norvegicus GN=Psmb3 PE=1 SV=1	sp|P40112|PSB3_RAT	0.00025
sp|P83732|RL24_RAT 60S ribosomal protein L24 OS=Rattus norvegicus GN=Rpl24 PE=2 SV=1	sp|P83732|RL24_RAT (+1)	0.0002
Cluster of sp|P84245|H33_RAT Histone H3.3 OS=Rattus norvegicus GN=H3f3b PE=1 SV=2 (sp|P84245|H33_RAT)	sp|P84245|H33_RAT [3]	0.00015
sp|P84245|H33_RAT Histone H3.3 OS=Rattus norvegicus GN=H3f3b PE=1 SV=2	sp|P84245|H33_RAT (+1)	0.00015
tr|D3ZJ08|D3ZJ08_RAT Histone H3 OS=Rattus norvegicus GN=Hist2h3c2 PE=1 SV=1	tr|D3ZJ08|D3ZJ08_RAT	0.00012
sp|Q01205|ODO2_RAT Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial OS=Rattus norvegicus G	sp|Q01205|ODO2_RAT (+1)	0.00022
sp|Q32Q06|AP1M1_RAT AP-1 complex subunit mu-1 OS=Rattus norvegicus GN=Ap1m1 PE=1 SV=3	sp|Q32Q06|AP1M1_RAT	0.00022
sp|Q505J9|ATAD1_RAT ATPase family AAA domain-containing protein 1 OS=Rattus norvegicus GN=Atad1 PE=1 SV=1	sp|Q505J9|ATAD1_RAT	0.00022
sp|Q5EB81|NB5R1_RAT NADH-cytochrome b5 reductase 1 OS=Rattus norvegicus GN=Cyb5r1 PE=2 SV=1	sp|Q5EB81|NB5R1_RAT (+1)	0.00025
sp|Q62910-2|SYNJ1_RAT Isoform 2 of Synaptojanin-1 OS=Rattus norvegicus GN=Synj1	sp|Q62910-2|SYNJ1_RAT (+4)	0.00015

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q64654|CP51A_RAT Lanosterol 14-alpha demethylase OS=Rattus norvegicus GN=Cyp51a1 PE=2 SV=1	sp|Q64654|CP51A_RAT	0.00017
sp|Q66HA8|HS105_RAT Heat shock protein 105 kDa OS=Rattus norvegicus GN=Hsph1 PE=1 SV=1	sp|Q66HA8|HS105_RAT	0.00017
sp|Q68FS2|CSN4_RAT COP9 signalosome complex subunit 4 OS=Rattus norvegicus GN=Cops4 PE=1 SV=1	sp|Q68FS2|CSN4_RAT	0.0002
sp|Q6AXT0|RM37_RAT 39S ribosomal protein L37, mitochondrial OS=Rattus norvegicus GN=Mrpl37 PE=2 SV=1	sp|Q6AXT0|RM37_RAT	0.00017
sp|Q6AYK6|CYBP_RAT Calcyclin-binding protein OS=Rattus norvegicus GN=Cacybp PE=1 SV=1	sp|Q6AYK6|CYBP_RAT	0.00025
Cluster of sp|Q6RUV5|RAC1_RAT Ras-related C3 botulinum toxin substrate 1 OS=Rattus norvegicus GN=Rac1 PE=1 SV=1 (sp|Q6RUV5|RAC1_RAT)	sp|Q6RUV5|RAC1_RAT [3]	0.00022
sp|Q6RUV5|RAC1_RAT Ras-related C3 botulinum toxin substrate 1 OS=Rattus norvegicus GN=Rac1 PE=1 SV=1	sp|Q6RUV5|RAC1_RAT (+1)	0.0002
tr|M0R5T4|M0R5T4_RAT Protein Rac3 OS=Rattus norvegicus GN=Rac3 PE=4 SV=2	tr|M0R5T4|M0R5T4_RAT	0.0001
sp|Q7M0E3|DEST_RAT Destrin OS=Rattus norvegicus GN=Dstn PE=1 SV=3	sp|Q7M0E3|DEST_RAT	0.00022
sp|Q9JHW1|CBPD_RAT Carboxypeptidase D OS=Rattus norvegicus GN=Cpd PE=1 SV=2	sp|Q9JHW1|CBPD_RAT (+1)	0.00025
tr|A0A096MJZ2|A0A096MJZ2_RAT Protein Tbl2 OS=Rattus norvegicus GN=Tbl2 PE=1 SV=1	tr|A0A096MJZ2|A0A096MJZ2_RAT	0.0002
Cluster of tr|A0A0G2JTB2|A0A0G2JTB2_RAT Protein Gbe1 OS=Rattus norvegicus GN=Gbe1 PE=1 SV=1 (tr|A0A0G2JTB2|A0A0G2JTB2_RAT)	tr|A0A0G2JTB2|A0A0G2JTB2_RAT [2]	0.00022
tr|A0A0G2JTB2|A0A0G2JTB2_RAT Protein Gbe1 OS=Rattus norvegicus GN=Gbe1 PE=1 SV=1	tr|A0A0G2JTB2|A0A0G2JTB2_RAT	0.0002
tr|A0A096MJY6|A0A096MJY6_RAT Protein Gbe1 (Fragment) OS=Rattus norvegicus GN=Gbe1 PE=1 SV=1	tr|A0A096MJY6|A0A096MJY6_RAT	0.00012
tr|A0A0G2JUT5|A0A0G2JUT5_RAT Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh4a1 PE=3 SV=1	tr|A0A0G2JUT5|A0A0G2JUT5_RAT	0.0002
tr|A0A0G2K0W9|A0A0G2K0W9_RAT Proteasome subunit alpha type OS=Rattus norvegicus GN=Psma7 PE=1 SV=1	tr|A0A0G2K0W9|A0A0G2K0W9_RAT	0.0002
tr|A0A0G2K1M7|A0A0G2K1M7_RAT Anoctamin OS=Rattus norvegicus GN=Ano6 PE=1 SV=1	tr|A0A0G2K1M7|A0A0G2K1M7_RAT (+1)	0.00017
tr|A0A0G2K1S6|A0A0G2K1S6_RAT Malic enzyme OS=Rattus norvegicus GN=Me1 PE=1 SV=1	tr|A0A0G2K1S6|A0A0G2K1S6_RAT	0.0002
tr|A0A0G2K261|A0A0G2K261_RAT Protein Iars2 OS=Rattus norvegicus GN=Iars2 PE=1 SV=1	tr|A0A0G2K261|A0A0G2K261_RAT	0.00025
Cluster of tr|A0A0G2K6D5|A0A0G2K6D5_RAT Protein Pitrm1 OS=Rattus norvegicus GN=Pitrm1 PE=1 SV=1 (tr|A0A0G2K6D5|A0A0G2K6D5_RAT)	tr|A0A0G2K6D5|A0A0G2K6D5_RAT	0.00017
tr|A0A0G2K6D5|A0A0G2K6D5_RAT Protein Pitrm1 OS=Rattus norvegicus GN=Pitrm1 PE=1 SV=1	tr|A0A0G2K6D5|A0A0G2K6D5_RAT	0.00017
tr|A0A0G2K7G7|A0A0G2K7G7_RAT Septin-8 OS=Rattus norvegicus GN=Sept8 PE=1 SV=1	tr|A0A0G2K7G7|A0A0G2K7G7_RAT	0.00035
tr|A0A0G2KAI8|A0A0G2KAI8_RAT Protein Drg2 OS=Rattus norvegicus GN=Drg2 PE=1 SV=1	tr|A0A0G2KAI8|A0A0G2KAI8_RAT	0.00025
tr|B2RYP4|B2RYP4_RAT Protein Snx2 OS=Rattus norvegicus GN=Snx2 PE=1 SV=1	tr|B2RYP4|B2RYP4_RAT	0.00017
tr|B4F774|B4F774_RAT Ganglioside-induced differentiation-associated protein 1-like 1 (Predicted) OS=Rattus norvegicus GN=Gdap1l1 PE=2 SV=1	tr|B4F774|B4F774_RAT	0.00017
tr|D3ZD11|D3ZD11_RAT Protein Spcs2 OS=Rattus norvegicus GN=Spcs2 PE=1 SV=1	tr|D3ZD11|D3ZD11_RAT	0.00022
Cluster of tr|F1LXV0|F1LXV0_RAT Ribosomal protein S6 kinase OS=Rattus norvegicus GN=Rps6ka1 PE=1 SV=2 (tr|F1LXV0|F1LXV0_RAT)	tr|F1LXV0|F1LXV0_RAT [4]	0.00032
tr|F1LXV0|F1LXV0_RAT Ribosomal protein S6 kinase OS=Rattus norvegicus GN=Rps6ka1 PE=1 SV=2	tr|F1LXV0|F1LXV0_RAT	0.0002
tr|D3Z8E0|D3Z8E0_RAT Ribosomal protein S6 kinase OS=Rattus norvegicus GN=Rps6ka3 PE=1 SV=2	tr|D3Z8E0|D3Z8E0_RAT	0.00012
tr|A0A0G2JXA6|A0A0G2JXA6_RAT Protein Rps6ka6 OS=Rattus norvegicus GN=Rps6ka6 PE=4 SV=1	tr|A0A0G2JXA6|A0A0G2JXA6_RAT (+1)	0.00012
tr|G3V644|G3V644_RAT NADH dehydrogenase (Ubiquinone) flavoprotein 3-like, isoform CRA_a OS=Rattus norvegicus GN=Ndufv3 PE=1 SV=1	tr|G3V644|G3V644_RAT	0.00022
tr|G3V8T5|G3V8T5_RAT DNA helicase OS=Rattus norvegicus GN=Ruvbl2 PE=1 SV=1	tr|G3V8T5|G3V8T5_RAT	0.0002
tr|Q5XI77|Q5XI77_RAT Annexin OS=Rattus norvegicus GN=Anxa11 PE=1 SV=1	tr|Q5XI77|Q5XI77_RAT	0.0002
tr|Q6IMX3|Q6IMX3_RAT Acetyl-Coenzyme A dehydrogenase, short chain, isoform CRA_a OS=Rattus norvegicus GN=Acads PE=1 SV=1	tr|Q6IMX3|Q6IMX3_RAT	0.0002
tr|R9PY00|R9PY00_RAT Vesicle-associated membrane protein 2 OS=Rattus norvegicus GN=Vamp2 PE=1 SV=2	tr|R9PY00|R9PY00_RAT	0.00022
sp|F1LSG8|VPS50_RAT Syndetin OS=Rattus norvegicus GN=Vps50 PE=1 SV=1	sp|F1LSG8|VPS50_RAT	0.0002
Cluster of sp|O09178|AMPD3_RAT AMP deaminase 3 OS=Rattus norvegicus GN=Ampd3 PE=1 SV=2 (sp|O09178|AMPD3_RAT)	sp|O09178|AMPD3_RAT	0.00017
sp|O09178|AMPD3_RAT AMP deaminase 3 OS=Rattus norvegicus GN=Ampd3 PE=1 SV=2	sp|O09178|AMPD3_RAT	0.00017
sp|O88775|EMB_RAT Embigin OS=Rattus norvegicus GN=Emb PE=1 SV=1	sp|O88775|EMB_RAT	0.00017
sp|P09951-2|SYN1_RAT Isoform IB of Synapsin-1 OS=Rattus norvegicus GN=Syn1	sp|P09951-2|SYN1_RAT (+1)	0.00017
sp|P11348|DHPR_RAT Dihydropteridine reductase OS=Rattus norvegicus GN=Qdpr PE=1 SV=1	sp|P11348|DHPR_RAT	0.00022
sp|P14604|ECHM_RAT Enoyl-CoA hydratase, mitochondrial OS=Rattus norvegicus GN=Echs1 PE=1 SV=1	sp|P14604|ECHM_RAT	0.0002
sp|P18420|PSA1_RAT Proteasome subunit alpha type-1 OS=Rattus norvegicus GN=Psma1 PE=1 SV=2	sp|P18420|PSA1_RAT	0.0002
sp|P47875|CSRP1_RAT Cysteine and glycine-rich protein 1 OS=Rattus norvegicus GN=Csrp1 PE=1 SV=2	sp|P47875|CSRP1_RAT	0.0002
sp|P62828|RAN_RAT GTP-binding nuclear protein Ran OS=Rattus norvegicus GN=Ran PE=1 SV=3	sp|P62828|RAN_RAT	0.00017
sp|P63036|DNJA1_RAT DnaJ homolog subfamily A member 1 OS=Rattus norvegicus GN=Dnaja1 PE=1 SV=1	sp|P63036|DNJA1_RAT	0.00012
sp|P86182|CCD22_RAT Coiled-coil domain-containing protein 22 OS=Rattus norvegicus GN=Ccdc22 PE=1 SV=2	sp|P86182|CCD22_RAT	0.0002
sp|Q3KRD5|TOM34_RAT Mitochondrial import receptor subunit TOM34 OS=Rattus norvegicus GN=Tomm34 PE=1 SV=1	sp|Q3KRD5|TOM34_RAT	0.00022
sp|Q3KRE0|ATAD3_RAT ATPase family AAA domain-containing protein 3 OS=Rattus norvegicus GN=Atad3 PE=1 SV=1	sp|Q3KRE0|ATAD3_RAT	0.00012
sp|Q5FVQ4|MLEC_RAT Malectin OS=Rattus norvegicus GN=Mlec PE=2 SV=1	sp|Q5FVQ4|MLEC_RAT (+1)	0.00017
sp|Q62902|LMAN1_RAT Protein ERGIC-53 OS=Rattus norvegicus GN=Lman1 PE=1 SV=1	sp|Q62902|LMAN1_RAT	0.00017
sp|Q63448|ACOX3_RAT Peroxisomal acyl-coenzyme A oxidase 3 OS=Rattus norvegicus GN=Acox3 PE=1 SV=1	sp|Q63448|ACOX3_RAT	0.0002
sp|Q6AYB4|HSP7E_RAT Heat shock 70 kDa protein 14 OS=Rattus norvegicus GN=Hspa14 PE=2 SV=1	sp|Q6AYB4|HSP7E_RAT	0.0002
sp|Q6Q0N1|CNDP2_RAT Cytosolic non-specific dipeptidase OS=Rattus norvegicus GN=Cndp2 PE=1 SV=1	sp|Q6Q0N1|CNDP2_RAT	0.00017
sp|Q9JLJ3|AL9A1_RAT 4-trimethylaminobutyraldehyde dehydrogenase OS=Rattus norvegicus GN=Aldh9a1 PE=1 SV=1	sp|Q9JLJ3|AL9A1_RAT (+1)	0.00012
sp|Q9JLZ1|GLRX3_RAT Glutaredoxin-3 OS=Rattus norvegicus GN=Glrx3 PE=1 SV=2	sp|Q9JLZ1|GLRX3_RAT	0.00022
sp|Q9QXU8|DC1L1_RAT Cytoplasmic dynein 1 light intermediate chain 1 OS=Rattus norvegicus GN=Dync1li1 PE=1 SV=1	sp|Q9QXU8|DC1L1_RAT (+1)	0.00022
sp|Q9WVB1|RAB6A_RAT Ras-related protein Rab-6A OS=Rattus norvegicus GN=Rab6a PE=1 SV=2	sp|Q9WVB1|RAB6A_RAT	0.00027
tr|A0A0G2JVL8|A0A0G2JVL8_RAT Protein Iars OS=Rattus norvegicus GN=Iars PE=1 SV=1	tr|A0A0G2JVL8|A0A0G2JVL8_RAT	0.00015
tr|A0A0G2K1K5|A0A0G2K1K5_RAT Protein Trappc11 OS=Rattus norvegicus GN=Trappc11 PE=1 SV=1	tr|A0A0G2K1K5|A0A0G2K1K5_RAT (+1)	0.0002
tr|A0A0G2K7T6|A0A0G2K7T6_RAT Nuclear pore complex protein Nup155 OS=Rattus norvegicus GN=Nup155 PE=1 SV=1	tr|A0A0G2K7T6|A0A0G2K7T6_RAT (+1)	0.0002
tr|B1WBY5|B1WBY5_RAT DnaJ (Hsp40) homolog, subfamily C, member 11 OS=Rattus norvegicus GN=Dnajc11 PE=1 SV=1	tr|B1WBY5|B1WBY5_RAT	0.0002
Cluster of tr|B2RYD7|B2RYD7_RAT Protein Stt3b OS=Rattus norvegicus GN=Stt3b PE=1 SV=1 (tr|B2RYD7|B2RYD7_RAT)	tr|B2RYD7|B2RYD7_RAT	0.00022
tr|B2RYD7|B2RYD7_RAT Protein Stt3b OS=Rattus norvegicus GN=Stt3b PE=1 SV=1	tr|B2RYD7|B2RYD7_RAT	0.00022
tr|D3ZP13|D3ZP13_RAT Sulfhydryl oxidase OS=Rattus norvegicus GN=Qsox2 PE=1 SV=1	tr|D3ZP13|D3ZP13_RAT	0.00025

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZQD3|D3ZQD3_RAT 2-oxoglutarate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ogdhl PE=1 SV=2	tr|D3ZQD3|D3ZQD3_RAT	0.00022
tr|F1LM47|F1LM47_RAT Succinyl-CoA ligase subunit beta OS=Rattus norvegicus GN=Sucla2 PE=1 SV=1	tr|F1LM47|F1LM47_RAT	0.00015
tr|F1LVV4|F1LVV4_RAT Protein Rcc2 OS=Rattus norvegicus GN=Rcc2 PE=1 SV=1	tr|F1LVV4|F1LVV4_RAT	0.00017
tr|F7EZZ0|F7EZZ0_RAT Disks large-associated protein 3 OS=Rattus norvegicus GN=Dap3 PE=1 SV=1	tr|F7EZZ0|F7EZZ0_RAT	0.0002
tr|G3V6S3|G3V6S3_RAT Calumenin OS=Rattus norvegicus GN=Calu PE=1 SV=1	tr|G3V6S3|G3V6S3_RAT	0.00035
tr|G3V824|G3V824_RAT Insulin-like growth factor 2 receptor, isoform CRA_b OS=Rattus norvegicus GN=Igf2r PE=1 SV=1	tr|G3V824|G3V824_RAT	0.00015
sp|B2GV54|NCEH1_RAT Neutral cholesterol ester hydrolase 1 OS=Rattus norvegicus GN=Nceh1 PE=2 SV=1	sp|B2GV54|NCEH1_RAT	0.00015
sp|B5DEH2|ERLN2_RAT Erlin-2 OS=Rattus norvegicus GN=Erlin2 PE=1 SV=1	sp|B5DEH2|ERLN2_RAT	0.00027
sp|D3ZLZ7|IMDH1_RAT Inosine-5'-monophosphate dehydrogenase 1 OS=Rattus norvegicus GN=Impdh1 PE=3 SV=1	sp|D3ZLZ7|IMDH1_RAT (+1)	0.00017
sp|P01830|THY1_RAT Thy-1 membrane glycoprotein OS=Rattus norvegicus GN=Thy1 PE=1 SV=1	sp|P01830|THY1_RAT	0.0002
sp|P07323|ENOG_RAT Gamma-enolase OS=Rattus norvegicus GN=Eno2 PE=1 SV=2	sp|P07323|ENOG_RAT	0.00022
sp|P07895|SODM_RAT Superoxide dismutase [Mn], mitochondrial OS=Rattus norvegicus GN=Sod2 PE=1 SV=2	sp|P07895|SODM_RAT	0.0002
sp|P17220|PSA2_RAT Proteasome subunit alpha type-2 OS=Rattus norvegicus GN=Psma2 PE=1 SV=3	sp|P17220|PSA2_RAT	0.00017
sp|P18614|ITA1_RAT Integrin alpha-1 OS=Rattus norvegicus GN=Itga1 PE=1 SV=1	sp|P18614|ITA1_RAT	0.00022
sp|P23965|ECI1_RAT Enoyl-CoA delta isomerase 1, mitochondrial OS=Rattus norvegicus GN=Eci1 PE=1 SV=1	sp|P23965|ECI1_RAT (+1)	0.0002
sp|P24268|CATD_RAT Cathepsin D OS=Rattus norvegicus GN=Ctsd PE=1 SV=1	sp|P24268|CATD_RAT	0.00017
sp|P26284|ODPA_RAT Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial OS=Rattus norvegicus GN=Pdha1 PE=1 SV=2	sp|P26284|ODPA_RAT (+3)	0.00015
sp|P26453|BASI_RAT Basigin OS=Rattus norvegicus GN=Bsg PE=1 SV=2	sp|P26453|BASI_RAT	0.00015
sp|P27881|HXK2_RAT Hexokinase-2 OS=Rattus norvegicus GN=Hk2 PE=1 SV=1	sp|P27881|HXK2_RAT	0.0003
sp|P47727|CBR1_RAT Carbonyl reductase [NADPH] 1 OS=Rattus norvegicus GN=Cbr1 PE=1 SV=2	sp|P47727|CBR1_RAT	0.00025
Cluster of sp|P54313|GBB2_RAT Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 OS=Rattus norvegicus GN=Gnb2 PE=1 SV=4 (sp|P54313|GBB2_RAT	sp|P54313|GBB2_RAT	0.00032
sp|P54313|GBB2_RAT Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 OS=Rattus norvegicus GN=Gnb2 PE=1 SV=4	sp|P54313|GBB2_RAT	0.00032
Cluster of sp|P54921|SNAA_RAT Alpha-soluble NSF attachment protein OS=Rattus norvegicus GN=Napa PE=1 SV=2 (sp|P54921|SNAA_RAT)	sp|P54921|SNAA_RAT [2]	0.0002
sp|P54921|SNAA_RAT Alpha-soluble NSF attachment protein OS=Rattus norvegicus GN=Napa PE=1 SV=2	sp|P54921|SNAA_RAT	0.00015
tr|F8WFM2|F8WFM2_RAT Beta-soluble NSF attachment protein OS=Rattus norvegicus GN=Napb PE=4 SV=1	tr|F8WFM2|F8WFM2_RAT	0.00015
Cluster of sp|P63159|HMGB1_RAT High mobility group protein B1 OS=Rattus norvegicus GN=Hmgb1 PE=1 SV=2 (sp|P63159|HMGB1_RAT)	sp|P63159|HMGB1_RAT [4]	0.00022
sp|P63159|HMGB1_RAT High mobility group protein B1 OS=Rattus norvegicus GN=Hmgb1 PE=1 SV=2	sp|P63159|HMGB1_RAT (+3)	0.00022
sp|Q05175|BASP1_RAT Brain acid soluble protein 1 OS=Rattus norvegicus GN=Basp1 PE=1 SV=2	sp|Q05175|BASP1_RAT (+1)	0.00017
sp|Q4V7C6|GUAA_RAT GMP synthase [glutamine-hydrolyzing] OS=Rattus norvegicus GN=Gmps PE=1 SV=1	sp|Q4V7C6|GUAA_RAT	0.0002
sp|Q4V8C7|PRKRA_RAT Interferon-inducible double-stranded RNA-dependent protein kinase activator A OS=Rattus norvegicus GN=Prkra PE=1 SV=1	sp|Q4V8C7|PRKRA_RAT (+1)	0.00017
sp|Q5BJS0|DHX30_RAT Putative ATP-dependent RNA helicase DHX30 OS=Rattus norvegicus GN=Dhx30 PE=1 SV=1	sp|Q5BJS0|DHX30_RAT (+1)	0.0002
sp|Q5HZY0|UBXN4_RAT UBX domain-containing protein 4 OS=Rattus norvegicus GN=Ubxn4 PE=1 SV=1	sp|Q5HZY0|UBXN4_RAT	0.00022
sp|Q5M9G3|CAPR1_RAT Caprin-1 OS=Rattus norvegicus GN=Caprin1 PE=1 SV=2	sp|Q5M9G3|CAPR1_RAT (+1)	0.0002
sp|Q5RJY4-2|DRS7B_RAT Isoform 2 of Dehydrogenase/reductase SDR family member 7B OS=Rattus norvegicus GN=Dhrs7b	sp|Q5RJY4-2|DRS7B_RAT	0.00017
Cluster of sp|Q5U1Y1|RAB34_RAT Ras-related protein Rab-34 OS=Rattus norvegicus GN=Rab34 PE=2 SV=1 (sp|Q5U1Y1|RAB34_RAT)	sp|Q5U1Y1|RAB34_RAT [3]	0.00017
sp|Q5U1Y1|RAB34_RAT Ras-related protein Rab-34 OS=Rattus norvegicus GN=Rab34 PE=2 SV=1	sp|Q5U1Y1|RAB34_RAT (+1)	0.00015
tr|A0A0G2K738|A0A0G2K738_RAT Ras-related protein Rab-34 OS=Rattus norvegicus GN=Rab34 PE=1 SV=1	tr|A0A0G2K738|A0A0G2K738_RAT	0.00015
sp|Q63707|PYRD_RAT Dihydroorotate dehydrogenase (quinone), mitochondrial OS=Rattus norvegicus GN=Dhodh PE=1 SV=1	sp|Q63707|PYRD_RAT	0.00022
sp|Q6AXR4|HEXB_RAT Beta-hexosaminidase subunit beta OS=Rattus norvegicus GN=Hexb PE=2 SV=1	sp|Q6AXR4|HEXB_RAT (+1)	0.00017
Cluster of sp|Q6AY23|P5CR2_RAT Pyrroline-5-carboxylate reductase 2 OS=Rattus norvegicus GN=Pycr2 PE=2 SV=1 (sp|Q6AY23|P5CR2_RAT)	sp|Q6AY23|P5CR2_RAT [2]	0.00015
sp|Q6AY23|P5CR2_RAT Pyrroline-5-carboxylate reductase 2 OS=Rattus norvegicus GN=Pycr2 PE=2 SV=1	sp|Q6AY23|P5CR2_RAT	0.00015
tr|D3ZXI0|D3ZXI0_RAT Pyrroline-5-carboxylate reductase OS=Rattus norvegicus GN=Pycr1 PE=3 SV=2	tr|D3ZXI0|D3ZXI0_RAT	0.000025
sp|Q6P7S1|ASAH1_RAT Acid ceramidase OS=Rattus norvegicus GN=Asah1 PE=2 SV=1	sp|Q6P7S1|ASAH1_RAT (+1)	0.0002
Cluster of sp|Q6RVG2-2|S4A8_RAT Isoform 1 of Electroneutral sodium bicarbonate exchanger 1 OS=Rattus norvegicus GN=Slc4a8 (sp|Q6RVG2-2|S4A8_RAT)	sp|Q6RVG2-2|S4A8_RAT [2]	0.00015
sp|Q6RVG2-2|S4A8_RAT Isoform 1 of Electroneutral sodium bicarbonate exchanger 1 OS=Rattus norvegicus GN=Slc4a8	sp|Q6RVG2-2|S4A8_RAT (+1)	0.00015
Cluster of sp|Q71UF4|RBBP7_RAT Histone-binding protein RBBP7 OS=Rattus norvegicus GN=Rbbp7 PE=2 SV=1 (sp|Q71UF4|RBBP7_RAT)	sp|Q71UF4|RBBP7_RAT [2]	0.00015
sp|Q71UF4|RBBP7_RAT Histone-binding protein RBBP7 OS=Rattus norvegicus GN=Rbbp7 PE=2 SV=1	sp|Q71UF4|RBBP7_RAT	0.00012
tr|B5DFB2|B5DFB2_RAT Protein Rbbp4 OS=Rattus norvegicus GN=Rbbp4 PE=1 SV=1	tr|B5DFB2|B5DFB2_RAT	0.000075
sp|Q75Q41|TOM22_RAT Mitochondrial import receptor subunit TOM22 homolog OS=Rattus norvegicus GN=Tomm22 PE=1 SV=1	sp|Q75Q41|TOM22_RAT	0.0002
sp|Q7TSU1|BIG2_RAT Brefeldin A-inhibited guanine nucleotide-exchange protein 2 OS=Rattus norvegicus GN=Arfgef2 PE=1 SV=1	sp|Q7TSU1|BIG2_RAT	0.00017
sp|Q99NA5|IDH3A_RAT Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial OS=Rattus norvegicus GN=Idh3a PE=1 SV=1	sp|Q99NA5|IDH3A_RAT (+1)	0.00017
sp|Q9JHU0|DPYL5_RAT Dihydropyrimidinase-related protein 5 OS=Rattus norvegicus GN=Dpysl5 PE=1 SV=1	sp|Q9JHU0|DPYL5_RAT	0.00015
sp|Q9R1T1|BAF_RAT Barrier-to-autointegration factor OS=Rattus norvegicus GN=Banf1 PE=1 SV=1	sp|Q9R1T1|BAF_RAT	0.00017
Cluster of tr|A0A096MIX2|A0A096MIX2_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, isoform CRA_a OS=Rattus norvegicus GN=Ddx17 PE=1 SV=1 (tr|A0A096MIX	tr|A0A096MIX2|A0A096MIX2_RAT [2]	0.00027
tr|A0A096MIX2|A0A096MIX2_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, isoform CRA_a OS=Rattus norvegicus GN=Ddx17 PE=1 SV=1	tr|A0A096MIX2|A0A096MIX2_RAT (+1)	0.00027
tr|A0A096MIY2|A0A096MIY2_RAT Cytoplasmic dynein 1 light intermediate chain 2 OS=Rattus norvegicus GN=Dync1li2 PE=1 SV=1	tr|A0A096MIY2|A0A096MIY2_RAT (+1)	0.00012
tr|A0A0G2JSH5|A0A0G2JSH5_RAT Serum albumin OS=Rattus norvegicus GN=Alb PE=1 SV=1	tr|A0A0G2JSH5|A0A0G2JSH5_RAT	0.00017
tr|A0A0G2JTA0|A0A0G2JTA0_RAT FAS-associated factor 2 OS=Rattus norvegicus GN=Faf2 PE=1 SV=1	tr|A0A0G2JTA0|A0A0G2JTA0_RAT	0.00022
tr|A0A0G2JVL6|A0A0G2JVL6_RAT NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, 8 OS=Rattus norvegicus GN=Ndufa8 PE=1 SV=1	tr|A0A0G2JVL6|A0A0G2JVL6_RAT	0.0002
tr|A0A0G2JXN8|A0A0G2JXN8_RAT Oxysterol-binding protein OS=Rattus norvegicus GN=Osbpl8 PE=1 SV=1	tr|A0A0G2JXN8|A0A0G2JXN8_RAT	0.00015
tr|A0A0G2K1Z9|A0A0G2K1Z9_RAT Histocompatibility 13 (Predicted), isoform CRA_d OS=Rattus norvegicus GN=Hm13 PE=1 SV=1	tr|A0A0G2K1Z9|A0A0G2K1Z9_RAT	0.0002
tr|A0A0G2K931|A0A0G2K931_RAT Phosphoserine aminotransferase OS=Rattus norvegicus GN=Psat1 PE=1 SV=1	tr|A0A0G2K931|A0A0G2K931_RAT (+1)	0.00012
tr|A0A0U1RRV5|A0A0U1RRV5_RAT Protein Cluh OS=Rattus norvegicus GN=Cluh PE=4 SV=1	tr|A0A0U1RRV5|A0A0U1RRV5_RAT	0.00022
tr|B1WC34|B1WC34_RAT Protein Prkcsh OS=Rattus norvegicus GN=Prkcsh PE=1 SV=1	tr|B1WC34|B1WC34_RAT	0.0002
tr|D3ZF54|D3ZF54_RAT Anoctamin OS=Rattus norvegicus GN=Ano10 PE=1 SV=2	tr|D3ZF54|D3ZF54_RAT	0.00017

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZFQ8|D3ZFQ8_RAT Cytochrome c-1 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Cyc1 PE=1 SV=3	tr|D3ZFQ8|D3ZFQ8_RAT	0.0002
tr|D3ZZZ9|D3ZZZ9_RAT Catenin (Cadherin associated protein), delta 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Ctnnd1 PE=1 SV=1	tr|D3ZZZ9|D3ZZZ9_RAT	0.00017
tr|D4A3E1|D4A3E1_RAT Protein Hnrnpll OS=Rattus norvegicus GN=Hnrnpll PE=1 SV=1	tr|D4A3E1|D4A3E1_RAT	0.0002
tr|D4A3E8|D4A3E8_RAT Mitochondrial ribosomal protein S27 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrps27 PE=1 SV=1	tr|D4A3E8|D4A3E8_RAT	0.00015
tr|D4A5Q2|D4A5Q2_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc2 PE=1 SV=1	tr|D4A5Q2|D4A5Q2_RAT	0.00025
tr|D4A9D6|D4A9D6_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 9 (Predicted) OS=Rattus norvegicus GN=Dhx9 PE=1 SV=1	tr|D4A9D6|D4A9D6_RAT	0.00022
tr|F1LQP9|F1LQP9_RAT Protein Tnpo1 OS=Rattus norvegicus GN=Tnpo1 PE=1 SV=3	tr|F1LQP9|F1LQP9_RAT	0.000075
tr|G3V681|G3V681_RAT Protein Mcm4 OS=Rattus norvegicus GN=Mcm4 PE=1 SV=1	tr|G3V681|G3V681_RAT	0.0002
tr|G3V728|G3V728_RAT 4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (C. elegans), isoform CRA_b OS=Rattus norvegicus GN=	tr|G3V728|G3V728_RAT	0.00017
tr|G3V8F5|G3V8F5_RAT Mitochondrial import receptor subunit TOM40 homolog OS=Rattus norvegicus GN=Tomm40 PE=1 SV=1	tr|G3V8F5|G3V8F5_RAT	0.00017
tr|G3V9D3|G3V9D3_RAT Protein sel-1 homolog 1 OS=Rattus norvegicus GN=Sel1l PE=1 SV=1	tr|G3V9D3|G3V9D3_RAT	0.0002
tr|Q3KRC3|Q3KRC3_RAT Signal recognition particle receptor ('docking protein') OS=Rattus norvegicus GN=Srpra PE=1 SV=1	tr|Q3KRC3|Q3KRC3_RAT	0.00025
tr|Q5U2X8|Q5U2X8_RAT Acyl-CoA thioesterase 9 OS=Rattus norvegicus GN=Acot9 PE=1 SV=1	tr|Q5U2X8|Q5U2X8_RAT	0.00017
tr|Q68FX8|Q68FX8_RAT Mitochondrial-processing peptidase subunit alpha OS=Rattus norvegicus GN=Pmpca PE=1 SV=1	tr|Q68FX8|Q68FX8_RAT	0.00025
tr|Q6PCU4|Q6PCU4_RAT Emd protein OS=Rattus norvegicus GN=Emd PE=1 SV=1	tr|Q6PCU4|Q6PCU4_RAT	0.0002
sp|B2GUZ5|CAZA1_RAT F-actin-capping protein subunit alpha-1 OS=Rattus norvegicus GN=Capza1 PE=1 SV=1	sp|B2GUZ5|CAZA1_RAT	0.0002
sp|B3DMA0|P5I11_RAT Tumor protein p53-inducible protein 11 OS=Rattus norvegicus GN=Tp53i11 PE=1 SV=1	sp|B3DMA0|P5I11_RAT	0.0002
sp|O88989|MDHC_RAT Malate dehydrogenase, cytoplasmic OS=Rattus norvegicus GN=Mdh1 PE=1 SV=3	sp|O88989|MDHC_RAT	0.00017
sp|P02793|FRIL1_RAT Ferritin light chain 1 OS=Rattus norvegicus GN=Ftl1 PE=1 SV=3	sp|P02793|FRIL1_RAT (+1)	0.00015
sp|P12007|IVD_RAT Isovaleryl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ivd PE=1 SV=2	sp|P12007|IVD_RAT	0.00022
sp|P17078|RL35_RAT 60S ribosomal protein L35 OS=Rattus norvegicus GN=Rpl35 PE=1 SV=3	sp|P17078|RL35_RAT	0.00022
sp|P19139|CSK21_RAT Casein kinase II subunit alpha OS=Rattus norvegicus GN=Csnk2a1 PE=1 SV=2	sp|P19139|CSK21_RAT	0.0002
sp|P19944|RLA1_RAT 60S acidic ribosomal protein P1 OS=Rattus norvegicus GN=Rplp1 PE=3 SV=1	sp|P19944|RLA1_RAT	0.00017
Cluster of sp|P21707|SYT1_RAT Synaptotagmin-1 OS=Rattus norvegicus GN=Syt1 PE=1 SV=3 (sp|P21707|SYT1_RAT)	sp|P21707|SYT1_RAT [2]	0.00015
sp|P21707|SYT1_RAT Synaptotagmin-1 OS=Rattus norvegicus GN=Syt1 PE=1 SV=3	sp|P21707|SYT1_RAT	0.00012
sp|P47861|SYT5_RAT Synaptotagmin-5 OS=Rattus norvegicus GN=Syt5 PE=1 SV=1	sp|P47861|SYT5_RAT	0.000025
sp|P21913|SDHB_RAT Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial OS=Rattus norvegicus GN=Sdhb PE=2 SV=2	sp|P21913|SDHB_RAT	0.00017
sp|P22288|GCH1_RAT GTP cyclohydrolase 1 OS=Rattus norvegicus GN=Gch1 PE=1 SV=1	sp|P22288|GCH1_RAT	0.00017
sp|P34926|MAP1A_RAT Microtubule-associated protein 1A OS=Rattus norvegicus GN=Map1a PE=1 SV=1	sp|P34926|MAP1A_RAT (+2)	0.00017
sp|P35738|ODBB_RAT 2-oxoisovalerate dehydrogenase subunit beta, mitochondrial OS=Rattus norvegicus GN=Bckdhb PE=1 SV=3	sp|P35738|ODBB_RAT (+1)	0.00022
sp|P36370|TAP1_RAT Antigen peptide transporter 1 OS=Rattus norvegicus GN=Tap1 PE=1 SV=2	sp|P36370|TAP1_RAT (+1)	0.00012
sp|P38718-2|MPC2_RAT Isoform Short of Mitochondrial pyruvate carrier 2 OS=Rattus norvegicus GN=Mpc2	sp|P38718-2|MPC2_RAT (+1)	0.0002
sp|P50554|GABT_RAT 4-aminobutyrate aminotransferase, mitochondrial OS=Rattus norvegicus GN=Abat PE=1 SV=3	sp|P50554|GABT_RAT	0.0002
sp|P62193|PRS4_RAT 26S protease regulatory subunit 4 OS=Rattus norvegicus GN=Psmc1 PE=2 SV=1	sp|P62193|PRS4_RAT	0.00022
sp|Q01818|VMAT1_RAT Chromaffin granule amine transporter OS=Rattus norvegicus GN=Slc18a1 PE=2 SV=1	sp|Q01818|VMAT1_RAT	0.00015
Cluster of sp|Q01986|MP2K1_RAT Dual specificity mitogen-activated protein kinase kinase 1 OS=Rattus norvegicus GN=Map2k1 PE=1 SV=2 (sp|Q01986|MP2K1_RAT)	sp|Q01986|MP2K1_RAT [3]	0.00015
sp|Q01986|MP2K1_RAT Dual specificity mitogen-activated protein kinase kinase 1 OS=Rattus norvegicus GN=Map2k1 PE=1 SV=2	sp|Q01986|MP2K1_RAT (+1)	0.00012
sp|P36506|MP2K2_RAT Dual specificity mitogen-activated protein kinase kinase 2 OS=Rattus norvegicus GN=Map2k2 PE=1 SV=1	sp|P36506|MP2K2_RAT	0.000025
sp|Q5EB77|RAB18_RAT Ras-related protein Rab-18 OS=Rattus norvegicus GN=Rab18 PE=2 SV=1	sp|Q5EB77|RAB18_RAT	0.00017
Cluster of sp|Q5HZY2|SAR1B_RAT GTP-binding protein SAR1b OS=Rattus norvegicus GN=Sar1b PE=2 SV=1 (sp|Q5HZY2|SAR1B_RAT)	sp|Q5HZY2|SAR1B_RAT [2]	0.0001
sp|Q5HZY2|SAR1B_RAT GTP-binding protein SAR1b OS=Rattus norvegicus GN=Sar1b PE=2 SV=1	sp|Q5HZY2|SAR1B_RAT	0.000075
tr|Q6AY18|Q6AY18_RAT Protein Ppa1 OS=Rattus norvegicus GN=Sar1a PE=1 SV=1	tr|Q6AY18|Q6AY18_RAT	0.0001
sp|Q5XI64|ABHD6_RAT Monoacylglycerol lipase ABHD6 OS=Rattus norvegicus GN=Abhd6 PE=1 SV=1	sp|Q5XI64|ABHD6_RAT	0.00015
sp|Q62753|STXB2_RAT Syntaxin-binding protein 2 OS=Rattus norvegicus GN=Stxbp2 PE=2 SV=1	sp|Q62753|STXB2_RAT (+1)	0.00015
sp|Q63357|MYO1D_RAT Unconventional myosin-Id OS=Rattus norvegicus GN=Myo1d PE=1 SV=3	sp|Q63357|MYO1D_RAT	0.00017
sp|Q68FP1-2|GELS_RAT Isoform 2 of Gelsolin OS=Rattus norvegicus GN=Gsn	sp|Q68FP1-2|GELS_RAT	0.00012
sp|Q6PCT3|TPD54_RAT Tumor protein D54 OS=Rattus norvegicus GN=Tpd52l2 PE=1 SV=1	sp|Q6PCT3|TPD54_RAT	0.00017
sp|Q91XU8|CDS2_RAT Phosphatidate cytidylyltransferase 2 OS=Rattus norvegicus GN=Cds2 PE=1 SV=1	sp|Q91XU8|CDS2_RAT (+1)	0.00015
sp|Q920J4|TXNL1_RAT Thioredoxin-like protein 1 OS=Rattus norvegicus GN=Txnl1 PE=1 SV=3	sp|Q920J4|TXNL1_RAT (+1)	0.00017
sp|Q9JHY2|SFXN3_RAT Sideroflexin-3 OS=Rattus norvegicus GN=Sfxn3 PE=2 SV=1	sp|Q9JHY2|SFXN3_RAT (+1)	0.00025
sp|Q9JIL3-2|ILF3_RAT Isoform 2 of Interleukin enhancer-binding factor 3 OS=Rattus norvegicus GN=Ilf3	sp|Q9JIL3-2|ILF3_RAT (+4)	0.0002
sp|Q9QUR2-2|DCTN4_RAT Isoform 2 of Dynactin subunit 4 OS=Rattus norvegicus GN=Dctn4	sp|Q9QUR2-2|DCTN4_RAT (+1)	0.00012
Cluster of sp|Q9QYF3|MYO5A_RAT Unconventional myosin-Va OS=Rattus norvegicus GN=Myo5a PE=1 SV=1 (sp|Q9QYF3|MYO5A_RAT)	sp|Q9QYF3|MYO5A_RAT [3]	0.00015
sp|Q9QYF3|MYO5A_RAT Unconventional myosin-Va OS=Rattus norvegicus GN=Myo5a PE=1 SV=1	sp|Q9QYF3|MYO5A_RAT (+2)	0.00015
sp|Q9Z0V6|PRDX3_RAT Thioredoxin-dependent peroxide reductase, mitochondrial OS=Rattus norvegicus GN=Prdx3 PE=1 SV=2	sp|Q9Z0V6|PRDX3_RAT (+1)	0.00017
sp|Q9Z269|VAPB_RAT Vesicle-associated membrane protein-associated protein B OS=Rattus norvegicus GN=Vapb PE=1 SV=3	sp|Q9Z269|VAPB_RAT	0.00022
tr|A0A096MIV5|A0A096MIV5_RAT Protein Abcf2 OS=Rattus norvegicus GN=Abcf2 PE=1 SV=1	tr|A0A096MIV5|A0A096MIV5_RAT (+1)	0.0002
tr|A0A0A0MXU4|A0A0A0MXU4_RAT ER membrane protein complex subunit 2 OS=Rattus norvegicus GN=Emc2 PE=1 SV=2	tr|A0A0A0MXU4|A0A0A0MXU4_RAT	0.00017
tr|A0A0G2JVV5|A0A0G2JVV5_RAT Protein Usp14 OS=Rattus norvegicus GN=Usp14 PE=1 SV=1	tr|A0A0G2JVV5|A0A0G2JVV5_RAT (+1)	0.00017
tr|A0A0G2JWH5|A0A0G2JWH5_RAT Serine/threonine-protein kinase Chk1 OS=Rattus norvegicus GN=Stt3a PE=1 SV=1	tr|A0A0G2JWH5|A0A0G2JWH5_RAT (+1)	0.00017
tr|A0A0G2JXB1|A0A0G2JXB1_RAT Galectin OS=Rattus norvegicus GN=Lgals3 PE=1 SV=1	tr|A0A0G2JXB1|A0A0G2JXB1_RAT (+2)	0.00017
tr|A0A0G2JZM2|A0A0G2JZM2_RAT Protein Sec23a OS=Rattus norvegicus GN=Sec23a PE=1 SV=1	tr|A0A0G2JZM2|A0A0G2JZM2_RAT (+1)	0.0003
tr|A0A0G2K542|A0A0G2K542_RAT Protein Ugp2 OS=Rattus norvegicus GN=Ugp2 PE=1 SV=1	tr|A0A0G2K542|A0A0G2K542_RAT (+1)	0.0002
tr|A0A0G2K865|A0A0G2K865_RAT Protein Tpd52 OS=Rattus norvegicus GN=Tpd52 PE=1 SV=1	tr|A0A0G2K865|A0A0G2K865_RAT (+1)	0.00015
tr|A0A0G2K9B4|A0A0G2K9B4_RAT Mitochondrial ribosomal protein L15 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrpl15 PE=1 SV=1	tr|A0A0G2K9B4|A0A0G2K9B4_RAT	0.00017

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|B0K030|B0K030_RAT DnaJ (Hsp40) homolog, subfamily B, member 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Dnajb1 PE=1 SV=1	tr|B0K030|B0K030_RAT	0.0002
tr|B2RZ72|B2RZ72_RAT Actin-related protein 2/3 complex subunit 4 OS=Rattus norvegicus GN=Arpc4 PE=1 SV=1	tr|B2RZ72|B2RZ72_RAT	0.00017
Cluster of tr|D3ZI07|D3ZI07_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif3b PE=1 SV=1 (tr|D3ZI07|D3ZI07_RAT)	tr|D3ZI07|D3ZI07_RAT	0.0002
tr|D3ZI07|D3ZI07_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif3b PE=1 SV=1	tr|D3ZI07|D3ZI07_RAT	0.0002
tr|D4A0C3|D4A0C3_RAT Protein Hid1 OS=Rattus norvegicus GN=Hid1 PE=1 SV=2	tr|D4A0C3|D4A0C3_RAT	0.00017
tr|D4A2Z8|D4A2Z8_RAT DEAH (Asp-Glu-Ala-His) box polypeptide 36 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Dhx36 PE=1 SV=1	tr|D4A2Z8|D4A2Z8_RAT	0.00012
tr|D4A604|D4A604_RAT Protein Pigt OS=Rattus norvegicus GN=Pigt PE=1 SV=2	tr|D4A604|D4A604_RAT	0.00015
Cluster of tr|D4A720|D4A720_RAT Protein Srsf7 OS=Rattus norvegicus GN=Srsf7 PE=1 SV=1 (tr|D4A720|D4A720_RAT)	tr|D4A720|D4A720_RAT [3]	0.0002
tr|D4A720|D4A720_RAT Protein Srsf7 OS=Rattus norvegicus GN=Srsf7 PE=1 SV=1	tr|D4A720|D4A720_RAT	0.00017
tr|A0A0U1RRV7|A0A0U1RRV7_RAT Protein Srsf3 OS=Rattus norvegicus GN=Srsf3 PE=4 SV=1	tr|A0A0U1RRV7|A0A0U1RRV7_RAT (+1)	0.00005
tr|D4A8N1|D4A8N1_RAT Protein Dpm1 OS=Rattus norvegicus GN=Dpm1 PE=1 SV=1	tr|D4A8N1|D4A8N1_RAT	0.00017
tr|D4A8T3|D4A8T3_RAT Coatomer protein complex, subunit zeta 1 (Predicted) OS=Rattus norvegicus GN=Copz1 PE=1 SV=1	tr|D4A8T3|D4A8T3_RAT	0.00012
tr|F1LN03|F1LN03_RAT Lysophosphatidylcholine acyltransferase 2 OS=Rattus norvegicus GN=Lpcat2 PE=1 SV=1	tr|F1LN03|F1LN03_RAT	0.00015
tr|F1LQ09|F1LQ09_RAT Protein Atl2 OS=Rattus norvegicus GN=Atl2 PE=1 SV=1	tr|F1LQ09|F1LQ09_RAT	0.00022
tr|G3V6N2|G3V6N2_RAT Protein Tmed4 OS=Rattus norvegicus GN=Tmed4 PE=1 SV=3	tr|G3V6N2|G3V6N2_RAT	0.0002
tr|Q4QQS6|Q4QQS6_RAT Asparagine-linked glycosylation 5 homolog (Yeast, dolichyl-phosphate beta-glucosyltransferase), isoform CRA_a OS=Rattus norvegicus GN=	tr|Q4QQS6|Q4QQS6_RAT	0.00017
tr|Q5RKI5|Q5RKI5_RAT Flightless I homolog (Drosophila) OS=Rattus norvegicus GN=Flii PE=1 SV=1	tr|Q5RKI5|Q5RKI5_RAT	0.00017
tr|Q6AYN8|Q6AYN8_RAT DNA helicase OS=Rattus norvegicus GN=Mcm7 PE=1 SV=1	tr|Q6AYN8|Q6AYN8_RAT	0.00017
tr|Q99JC6|Q99JC6_RAT Protein Tapbp OS=Rattus norvegicus GN=Tapbp PE=1 SV=1	tr|Q99JC6|Q99JC6_RAT	0.0002
sp|B2RYG6|OTUB1_RAT Ubiquitin thioesterase OTUB1 OS=Rattus norvegicus GN=Otub1 PE=1 SV=1	sp|B2RYG6|OTUB1_RAT	0.00015
sp|G3V9D0|PGLT1_RAT Protein O-glucosyltransferase 1 OS=Rattus norvegicus GN=Poglut1 PE=3 SV=1	sp|G3V9D0|PGLT1_RAT	0.00012
sp|O08618|KPRB_RAT Phosphoribosyl pyrophosphate synthase-associated protein 2 OS=Rattus norvegicus GN=Prpsap2 PE=1 SV=1	sp|O08618|KPRB_RAT (+1)	0.00017
sp|O35796|C1QBP_RAT Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Rattus norvegicus GN=C1qbp PE=1 SV=2	sp|O35796|C1QBP_RAT	0.00015
sp|P12075|COX5B_RAT Cytochrome c oxidase subunit 5B, mitochondrial OS=Rattus norvegicus GN=Cox5b PE=1 SV=2	sp|P12075|COX5B_RAT	0.00015
sp|P32851|STX1A_RAT Syntaxin-1A OS=Rattus norvegicus GN=Stx1a PE=1 SV=1	sp|P32851|STX1A_RAT	0.00022
sp|P50398|GDIA_RAT Rab GDP dissociation inhibitor alpha OS=Rattus norvegicus GN=Gdi1 PE=1 SV=1	sp|P50398|GDIA_RAT	0.00015
Cluster of sp|P52925|HMGB2_RAT High mobility group protein B2 OS=Rattus norvegicus GN=Hmgb2 PE=2 SV=2 (sp|P52925|HMGB2_RAT)	sp|P52925|HMGB2_RAT	0.00017
sp|P52925|HMGB2_RAT High mobility group protein B2 OS=Rattus norvegicus GN=Hmgb2 PE=2 SV=2	sp|P52925|HMGB2_RAT	0.00017
sp|P54311|GBB1_RAT Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 OS=Rattus norvegicus GN=Gnb1 PE=1 SV=4	sp|P54311|GBB1_RAT	0.0003
sp|P61983|1433G_RAT 14-3-3 protein gamma OS=Rattus norvegicus GN=Ywhag PE=1 SV=2	sp|P61983|1433G_RAT	0.0004
sp|P62749|HPCL1_RAT Hippocalcin-like protein 1 OS=Rattus norvegicus GN=Hpcal1 PE=1 SV=2	sp|P62749|HPCL1_RAT	0.00012
sp|P62845|RS15_RAT 40S ribosomal protein S15 OS=Rattus norvegicus GN=Rps15 PE=1 SV=2	sp|P62845|RS15_RAT	0.00017
Cluster of sp|P63331|PP2AA_RAT Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform OS=Rattus norvegicus GN=Ppp2ca PE=1 SV=1 (sp|P63331|	sp|P63331|PP2AA_RAT [2]	0.00015
sp|P63331|PP2AA_RAT Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform OS=Rattus norvegicus GN=Ppp2ca PE=1 SV=1	sp|P63331|PP2AA_RAT (+1)	0.00015
sp|P68255|1433T_RAT 14-3-3 protein theta OS=Rattus norvegicus GN=Ywhaq PE=1 SV=1	sp|P68255|1433T_RAT	0.00037
sp|Q0VGK4|GDPD1_RAT Glycerophosphodiester phosphodiesterase domain-containing protein 1 OS=Rattus norvegicus GN=Gdpd1 PE=2 SV=1	sp|Q0VGK4|GDPD1_RAT (+2)	0.00015
sp|Q4V8B7|HSDL1_RAT Inactive hydroxysteroid dehydrogenase-like protein 1 OS=Rattus norvegicus GN=Hsdl1 PE=2 SV=1	sp|Q4V8B7|HSDL1_RAT	0.00015
sp|Q5U2U0|CLPX_RAT ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial OS=Rattus norvegicus GN=Clpx PE=2 SV=1	sp|Q5U2U0|CLPX_RAT	0.00015
sp|Q5XI32|CAPZB_RAT F-actin-capping protein subunit beta OS=Rattus norvegicus GN=Capzb PE=1 SV=1	sp|Q5XI32|CAPZB_RAT	0.00015
sp|Q5XI81|FXR1_RAT Fragile X mental retardation syndrome-related protein 1 OS=Rattus norvegicus GN=Fxr1 PE=1 SV=1	sp|Q5XI81|FXR1_RAT (+1)	0.0002
sp|Q5XI83|CP062_RAT UPF0505 protein C16orf62 homolog OS=Rattus norvegicus PE=2 SV=1	sp|Q5XI83|CP062_RAT (+1)	0.0002
sp|Q5XIG8|STRAP_RAT Serine-threonine kinase receptor-associated protein OS=Rattus norvegicus GN=Strap PE=1 SV=1	sp|Q5XIG8|STRAP_RAT	0.00017
sp|Q5XIP6|FEN1_RAT Flap endonuclease 1 OS=Rattus norvegicus GN=Fen1 PE=2 SV=1	sp|Q5XIP6|FEN1_RAT	0.00017
sp|Q62991|SCFD1_RAT Sec1 family domain-containing protein 1 OS=Rattus norvegicus GN=Scfd1 PE=1 SV=1	sp|Q62991|SCFD1_RAT	0.0002
sp|Q63009|ANM1_RAT Protein arginine N-methyltransferase 1 OS=Rattus norvegicus GN=Prmt1 PE=1 SV=1	sp|Q63009|ANM1_RAT	0.00012
sp|Q63151-2|ACSL3_RAT Isoform Short of Long-chain-fatty-acid--CoA ligase 3 OS=Rattus norvegicus GN=Acsl3	sp|Q63151-2|ACSL3_RAT (+1)	0.0002
sp|Q63798|PSME2_RAT Proteasome activator complex subunit 2 OS=Rattus norvegicus GN=Psme2 PE=2 SV=3	sp|Q63798|PSME2_RAT (+1)	0.00012
sp|Q6MG49|BAG6_RAT Large proline-rich protein BAG6 OS=Rattus norvegicus GN=Bag6 PE=1 SV=2	sp|Q6MG49|BAG6_RAT	0.00015
sp|Q9HB97|PARVA_RAT Alpha-parvin OS=Rattus norvegicus GN=Parva PE=1 SV=2	sp|Q9HB97|PARVA_RAT (+1)	0.00015
sp|Q9JHB5|TSNAX_RAT Translin-associated protein X OS=Rattus norvegicus GN=Tsnax PE=1 SV=1	sp|Q9JHB5|TSNAX_RAT	0.00015
Cluster of sp|Q9WUL0|TOP1_RAT DNA topoisomerase 1 OS=Rattus norvegicus GN=Top1 PE=1 SV=1 (sp|Q9WUL0|TOP1_RAT)	sp|Q9WUL0|TOP1_RAT [2]	0.00015
sp|Q9WUL0|TOP1_RAT DNA topoisomerase 1 OS=Rattus norvegicus GN=Top1 PE=1 SV=1	sp|Q9WUL0|TOP1_RAT (+1)	0.00015
sp|Q9Z1W6-2|LYRIC_RAT Isoform 2 of Protein LYRIC OS=Rattus norvegicus GN=Mtdh	sp|Q9Z1W6-2|LYRIC_RAT (+1)	0.0002
sp|Q9Z2Q7|STX8_RAT Syntaxin-8 OS=Rattus norvegicus GN=Stx8 PE=1 SV=1	sp|Q9Z2Q7|STX8_RAT	0.00017
tr|A0A0G2JSH9|A0A0G2JSH9_RAT Peroxiredoxin-2 OS=Rattus norvegicus GN=Prdx2 PE=1 SV=1	tr|A0A0G2JSH9|A0A0G2JSH9_RAT	0.00017
tr|A0A0G2JU15|A0A0G2JU15_RAT Protein Ptcd3 OS=Rattus norvegicus GN=Ptcd3 PE=1 SV=1	tr|A0A0G2JU15|A0A0G2JU15_RAT (+1)	0.00017
tr|A0A0G2JUJ9|A0A0G2JUJ9_RAT Protein Sec63 OS=Rattus norvegicus GN=Sec63 PE=1 SV=1	tr|A0A0G2JUJ9|A0A0G2JUJ9_RAT (+1)	0.0002
tr|A0A0G2K3Z9|A0A0G2K3Z9_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K3Z9|A0A0G2K3Z9_RAT	0.00022
tr|B2RYI9|B2RYI9_RAT Lass5 protein OS=Rattus norvegicus GN=Cers5 PE=2 SV=1	tr|B2RYI9|B2RYI9_RAT (+1)	0.00012
tr|B4F763|B4F763_RAT Protein Vps53 OS=Rattus norvegicus GN=Vps53 PE=1 SV=1	tr|B4F763|B4F763_RAT (+1)	0.00015
tr|B4F7A9|B4F7A9_RAT Casein kinase 2, alpha prime polypeptide OS=Rattus norvegicus GN=Csnk2a2 PE=1 SV=1	tr|B4F7A9|B4F7A9_RAT	0.00022
tr|D3Z9L5|D3Z9L5_RAT Protein Wdr11 OS=Rattus norvegicus GN=Wdr11 PE=1 SV=2	tr|D3Z9L5|D3Z9L5_RAT	0.00017
tr|D3ZK73|D3ZK73_RAT Cullin 4B (Predicted) OS=Rattus norvegicus GN=Cul4b PE=1 SV=1	tr|D3ZK73|D3ZK73_RAT	0.00017
tr|D4A0T0|D4A0T0_RAT Protein Ndufb10 OS=Rattus norvegicus GN=Ndufb10 PE=1 SV=1	tr|D4A0T0|D4A0T0_RAT	0.00017
tr|D4A9L2|D4A9L2_RAT Protein Srsf1 OS=Rattus norvegicus GN=Srsf1 PE=1 SV=1	tr|D4A9L2|D4A9L2_RAT	0.00012

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D4AE68|D4AE68_RAT Guanine nucleotide binding protein, alpha q polypeptide, isoform CRA_a OS=Rattus norvegicus GN=Gnaq PE=1 SV=2	tr|D4AE68|D4AE68_RAT	0.00015
tr|E9PT66|E9PT66_RAT Protein Sf3b3 OS=Rattus norvegicus GN=Sf3b3 PE=1 SV=2	tr|E9PT66|E9PT66_RAT	0.00005
tr|E9PT79|E9PT79_RAT Protein Tsn OS=Rattus norvegicus GN=Tsn PE=1 SV=3	tr|E9PT79|E9PT79_RAT (+1)	0.00017
Cluster of tr|F1LN75|F1LN75_RAT Septin-9 OS=Rattus norvegicus GN=Sept9 PE=1 SV=3 (tr|F1LN75|F1LN75_RAT)	tr|F1LN75|F1LN75_RAT [4]	0.00012
tr|F1LN75|F1LN75_RAT Septin-9 OS=Rattus norvegicus GN=Sept9 PE=1 SV=3	tr|F1LN75|F1LN75_RAT	0.00012
sp|Q9QZR6-2|SEPT9_RAT Isoform 2 of Septin-9 OS=Rattus norvegicus GN=Sept9	sp|Q9QZR6-2|SEPT9_RAT (+2)	0.00012
tr|F1LP76|F1LP76_RAT Elongator complex protein 1 OS=Rattus norvegicus GN=Ikbkap PE=1 SV=2	tr|F1LP76|F1LP76_RAT	0.00017
tr|F2Z3T9|F2Z3T9_RAT Protein U2af2 OS=Rattus norvegicus GN=U2af2 PE=1 SV=1	tr|F2Z3T9|F2Z3T9_RAT	0.00017
tr|F7EZ89|F7EZ89_RAT Protein Tbc1d15 OS=Rattus norvegicus GN=Tbc1d15 PE=1 SV=2	tr|F7EZ89|F7EZ89_RAT	0.00017
Cluster of tr|G3V6H9|G3V6H9_RAT Nucleosome assembly protein 1-like 1 OS=Rattus norvegicus GN=Nap1l1 PE=1 SV=1 (tr|G3V6H9|G3V6H9_RAT)	tr|G3V6H9|G3V6H9_RAT	0.00022
tr|G3V6H9|G3V6H9_RAT Nucleosome assembly protein 1-like 1 OS=Rattus norvegicus GN=Nap1l1 PE=1 SV=1	tr|G3V6H9|G3V6H9_RAT	0.00022
tr|G3V912|G3V912_RAT Protein Tmx4 OS=Rattus norvegicus GN=Tmx4 PE=1 SV=1	tr|G3V912|G3V912_RAT	0.00017
tr|M0R402|M0R402_RAT Protein Tmx3 OS=Rattus norvegicus GN=Tmx3 PE=1 SV=2	tr|M0R402|M0R402_RAT	0.0002
Cluster of tr|Q4KLL7|Q4KLL7_RAT Protein Vps4b OS=Rattus norvegicus GN=Vps4b PE=1 SV=1 (tr|Q4KLL7|Q4KLL7_RAT)	tr|Q4KLL7|Q4KLL7_RAT [3]	0.00017
tr|Q4KLL7|Q4KLL7_RAT Protein Vps4b OS=Rattus norvegicus GN=Vps4b PE=1 SV=1	tr|Q4KLL7|Q4KLL7_RAT	0.00015
sp|Q793F9|VPS4A_RAT Vacuolar protein sorting-associated protein 4A OS=Rattus norvegicus GN=Vps4a PE=1 SV=1	sp|Q793F9|VPS4A_RAT (+1)	0.000075
tr|Q4QQS7|Q4QQS7_RAT Protein Umps OS=Rattus norvegicus GN=Umps PE=1 SV=1	tr|Q4QQS7|Q4QQS7_RAT	0.00012
tr|Q5RJN0|Q5RJN0_RAT NADH dehydrogenase (Ubiquinone) Fe-S protein 7 OS=Rattus norvegicus GN=Ndufs7 PE=1 SV=1	tr|Q5RJN0|Q5RJN0_RAT	0.00017
tr|Q5RKH2|Q5RKH2_RAT Galactokinase 1 OS=Rattus norvegicus GN=Galk1 PE=1 SV=1	tr|Q5RKH2|Q5RKH2_RAT	0.00015
tr|Q5U302|Q5U302_RAT Catenin (Cadherin associated protein), alpha 1 OS=Rattus norvegicus GN=Ctnna1 PE=1 SV=1	tr|Q5U302|Q5U302_RAT	0.00015
tr|Q6AY58|Q6AY58_RAT B-cell receptor-associated protein 31 OS=Rattus norvegicus GN=Bcap31 PE=1 SV=1	tr|Q6AY58|Q6AY58_RAT	0.00012
tr|Q6IRH7|Q6IRH7_RAT Caseinolytic peptidase B protein homolog OS=Rattus norvegicus GN=Clpb PE=1 SV=1	tr|Q6IRH7|Q6IRH7_RAT	0.00017
tr|Q6P503|Q6P503_RAT ATPase, H+ transporting, V1 subunit D, isoform CRA_c OS=Rattus norvegicus GN=Atp6v1d PE=1 SV=1	tr|Q6P503|Q6P503_RAT	0.0001
Cluster of tr|A0A0G2K2C7|A0A0G2K2C7_RAT Protein Usp9x OS=Rattus norvegicus GN=Usp9x PE=1 SV=1 (tr|A0A0G2K2C7|A0A0G2K2C7_RAT)	tr|A0A0G2K2C7|A0A0G2K2C7_RAT [2]	0.0001
tr|A0A0G2K2C7|A0A0G2K2C7_RAT Protein Usp9x OS=Rattus norvegicus GN=Usp9x PE=1 SV=1	tr|A0A0G2K2C7|A0A0G2K2C7_RAT (+1)	0.000075
Cluster of sp|Q68FR9|EF1D_RAT Elongation factor 1-delta OS=Rattus norvegicus GN=Eef1d PE=1 SV=2 (sp|Q68FR9|EF1D_RAT)	sp|Q68FR9|EF1D_RAT	0.0001
sp|Q68FR9|EF1D_RAT Elongation factor 1-delta OS=Rattus norvegicus GN=Eef1d PE=1 SV=2	sp|Q68FR9|EF1D_RAT	0.0001
sp|P62859|RS28_RAT 40S ribosomal protein S28 OS=Rattus norvegicus GN=Rps28 PE=1 SV=1	sp|P62859|RS28_RAT	0.00012
sp|B0BNA7|EIF3I_RAT Eukaryotic translation initiation factor 3 subunit I OS=Rattus norvegicus GN=Eif3i PE=2 SV=1	sp|B0BNA7|EIF3I_RAT	0.00015
sp|B1H267|SNX5_RAT Sorting nexin-5 OS=Rattus norvegicus GN=Snx5 PE=1 SV=1	sp|B1H267|SNX5_RAT	0.00017
sp|D3ZTX0|TMED7_RAT Transmembrane emp24 domain-containing protein 7 OS=Rattus norvegicus GN=Tmed7 PE=1 SV=1	sp|D3ZTX0|TMED7_RAT	0.00017
sp|O35547|ACSL4_RAT Long-chain-fatty-acid--CoA ligase 4 OS=Rattus norvegicus GN=Acsl4 PE=1 SV=1	sp|O35547|ACSL4_RAT	0.00015
sp|O70536|SOAT1_RAT Sterol O-acyltransferase 1 OS=Rattus norvegicus GN=Soat1 PE=2 SV=1	sp|O70536|SOAT1_RAT (+1)	0.00015
sp|P00787|CATB_RAT Cathepsin B OS=Rattus norvegicus GN=Ctsb PE=1 SV=2	sp|P00787|CATB_RAT (+1)	0.00015
sp|P05370|G6PD_RAT Glucose-6-phosphate 1-dehydrogenase OS=Rattus norvegicus GN=G6pdx PE=1 SV=3	sp|P05370|G6PD_RAT	0.00012
sp|P08503|ACADM_RAT Medium-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Acadm PE=1 SV=1	sp|P08503|ACADM_RAT (+1)	0.00012
Cluster of sp|P11915|NLTP_RAT Non-specific lipid-transfer protein OS=Rattus norvegicus GN=Scp2 PE=1 SV=3 (sp|P11915|NLTP_RAT)	sp|P11915|NLTP_RAT [2]	0.00012
sp|P11915|NLTP_RAT Non-specific lipid-transfer protein OS=Rattus norvegicus GN=Scp2 PE=1 SV=3	sp|P11915|NLTP_RAT (+1)	0.00012
sp|P12001|RL18_RAT 60S ribosomal protein L18 OS=Rattus norvegicus GN=Rpl18 PE=1 SV=2	sp|P12001|RL18_RAT (+1)	0.00017
sp|P41499|PTN11_RAT Tyrosine-protein phosphatase non-receptor type 11 OS=Rattus norvegicus GN=Ptpn11 PE=1 SV=4	sp|P41499|PTN11_RAT	0.00012
sp|P41565|IDHG1_RAT Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial OS=Rattus norvegicus GN=Idh3g PE=1 SV=2	sp|P41565|IDHG1_RAT (+1)	0.00015
sp|P42346|MTOR_RAT Serine/threonine-protein kinase mTOR OS=Rattus norvegicus GN=Mtor PE=1 SV=1	sp|P42346|MTOR_RAT (+1)	0.00015
sp|P53987|MOT1_RAT Monocarboxylate transporter 1 OS=Rattus norvegicus GN=Slc16a1 PE=1 SV=1	sp|P53987|MOT1_RAT	0.0001
sp|P62853|RS25_RAT 40S ribosomal protein S25 OS=Rattus norvegicus GN=Rps25 PE=2 SV=1	sp|P62853|RS25_RAT (+2)	0.00012
sp|P70580|PGRC1_RAT Membrane-associated progesterone receptor component 1 OS=Rattus norvegicus GN=Pgrmc1 PE=1 SV=3	sp|P70580|PGRC1_RAT	0.00017
Cluster of sp|Q02874-2|H2AY_RAT Isoform 1 of Core histone macro-H2A.1 OS=Rattus norvegicus GN=H2afy (sp|Q02874-2|H2AY_RAT)	sp|Q02874-2|H2AY_RAT [3]	0.00015
sp|Q02874-2|H2AY_RAT Isoform 1 of Core histone macro-H2A.1 OS=Rattus norvegicus GN=H2afy	sp|Q02874-2|H2AY_RAT (+1)	0.00012
tr|B1WC28|B1WC28_RAT Core histone macro-H2A OS=Rattus norvegicus GN=H2afy2 PE=1 SV=1	tr|B1WC28|B1WC28_RAT	0.000075
sp|Q4KM49|SYYC_RAT Tyrosine--tRNA ligase, cytoplasmic OS=Rattus norvegicus GN=Yars PE=2 SV=3	sp|Q4KM49|SYYC_RAT (+1)	0.0001
sp|Q4KM65|CPSF5_RAT Cleavage and polyadenylation specificity factor subunit 5 OS=Rattus norvegicus GN=Nudt21 PE=2 SV=1	sp|Q4KM65|CPSF5_RAT	0.00022
sp|Q566E5|KDEL2_RAT KDEL motif-containing protein 2 OS=Rattus norvegicus GN=Kdelc2 PE=2 SV=1	sp|Q566E5|KDEL2_RAT	0.00015
sp|Q5RK09|EIF3G_RAT Eukaryotic translation initiation factor 3 subunit G OS=Rattus norvegicus GN=Eif3g PE=1 SV=1	sp|Q5RK09|EIF3G_RAT	0.00015
sp|Q5U2Z3|NP1L4_RAT Nucleosome assembly protein 1-like 4 OS=Rattus norvegicus GN=Nap1l4 PE=1 SV=1	sp|Q5U2Z3|NP1L4_RAT (+1)	0.00017
Cluster of sp|Q5XI22|THIC_RAT Acetyl-CoA acetyltransferase, cytosolic OS=Rattus norvegicus GN=Acat2 PE=1 SV=1 (sp|Q5XI22|THIC_RAT)	sp|Q5XI22|THIC_RAT [3]	0.00012
sp|Q5XI22|THIC_RAT Acetyl-CoA acetyltransferase, cytosolic OS=Rattus norvegicus GN=Acat2 PE=1 SV=1	sp|Q5XI22|THIC_RAT (+2)	0.00012
sp|Q5XI60|REEP6_RAT Receptor expression-enhancing protein 6 OS=Rattus norvegicus GN=Reep6 PE=2 SV=1	sp|Q5XI60|REEP6_RAT	0.00022
sp|Q5XIP9|TMM43_RAT Transmembrane protein 43 OS=Rattus norvegicus GN=Tmem43 PE=2 SV=1	sp|Q5XIP9|TMM43_RAT	0.00012
sp|Q63797|PSME1_RAT Proteasome activator complex subunit 1 OS=Rattus norvegicus GN=Psme1 PE=2 SV=1	sp|Q63797|PSME1_RAT (+1)	0.00015
sp|Q64057|AL7A1_RAT Alpha-aminoadipic semialdehyde dehydrogenase OS=Rattus norvegicus GN=Aldh7a1 PE=1 SV=2	sp|Q64057|AL7A1_RAT	0.00012
sp|Q64560|TPP2_RAT Tripeptidyl-peptidase 2 OS=Rattus norvegicus GN=Tpp2 PE=2 SV=3	sp|Q64560|TPP2_RAT	0.0001
sp|Q6AXT5|RAB21_RAT Ras-related protein Rab-21 OS=Rattus norvegicus GN=Rab21 PE=2 SV=1	sp|Q6AXT5|RAB21_RAT	0.00017
sp|Q6AYB5|SRP54_RAT Signal recognition particle 54 kDa protein OS=Rattus norvegicus GN=Srp54 PE=2 SV=1	sp|Q6AYB5|SRP54_RAT	0.0002
sp|Q6MG08|ABCF1_RAT ATP-binding cassette sub-family F member 1 OS=Rattus norvegicus GN=Abcf1 PE=1 SV=1	sp|Q6MG08|ABCF1_RAT	0.00015
sp|Q9R063-2|PRDX5_RAT Isoform Cytoplasmic+peroxisomal of Peroxiredoxin-5, mitochondrial OS=Rattus norvegicus GN=Prdx5	sp|Q9R063-2|PRDX5_RAT (+2)	0.0002
tr|A0A0G2JWA3|A0A0G2JWA3_RAT Protein Xpo7 OS=Rattus norvegicus GN=Xpo7 PE=1 SV=1	tr|A0A0G2JWA3|A0A0G2JWA3_RAT (+1)	0.00015

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|A0A0G2JY08|A0A0G2JY08_RAT Protein Myo18a OS=Rattus norvegicus GN=Myo18a PE=1 SV=1	tr|A0A0G2JY08|A0A0G2JY08_RAT	0.00017
tr|A0A0G2K103|A0A0G2K103_RAT Protein Sptlc2 OS=Rattus norvegicus GN=Sptlc2 PE=1 SV=1	tr|A0A0G2K103|A0A0G2K103_RAT (+1)	0.00015
tr|A0A0G2K6G2|A0A0G2K6G2_RAT Adipocyte plasma membrane-associated protein OS=Rattus norvegicus GN=Apmap PE=1 SV=1	tr|A0A0G2K6G2|A0A0G2K6G2_RAT	0.00012
tr|A0JN30|A0JN30_RAT Canopy 2 homolog (Zebrafish) OS=Rattus norvegicus GN=Cnpy2 PE=1 SV=1	tr|A0JN30|A0JN30_RAT	0.0002
tr|B0BNK1|B0BNK1_RAT Protein Rab5c OS=Rattus norvegicus GN=Rab5c PE=1 SV=1	tr|B0BNK1|B0BNK1_RAT	0.00022
tr|B2RYP3|B2RYP3_RAT Fam91a1 protein OS=Rattus norvegicus GN=Fam91a1 PE=1 SV=1	tr|B2RYP3|B2RYP3_RAT	0.00015
tr|B5DEY8|B5DEY8_RAT Protein Snx6 OS=Rattus norvegicus GN=Snx6 PE=1 SV=1	tr|B5DEY8|B5DEY8_RAT	0.00015
tr|D3ZC56|D3ZC56_RAT Protein Dst OS=Rattus norvegicus GN=Dst PE=1 SV=3	tr|D3ZC56|D3ZC56_RAT	0.000075
Cluster of tr|D3ZZW1|D3ZZW1_RAT Protein Dock1 OS=Rattus norvegicus GN=Dock1 PE=1 SV=1 (tr|D3ZZW1|D3ZZW1_RAT)	tr|D3ZZW1|D3ZZW1_RAT	0.00015
tr|D3ZZW1|D3ZZW1_RAT Protein Dock1 OS=Rattus norvegicus GN=Dock1 PE=1 SV=1	tr|D3ZZW1|D3ZZW1_RAT	0.00015
tr|D4A1J6|D4A1J6_RAT Protein Ankfy1 OS=Rattus norvegicus GN=Ankfy1 PE=1 SV=3	tr|D4A1J6|D4A1J6_RAT	0.00017
tr|D4AB03|D4AB03_RAT Protein Fam120a OS=Rattus norvegicus GN=Fam120a PE=1 SV=2	tr|D4AB03|D4AB03_RAT	0.00015
tr|D4ABP4|D4ABP4_RAT Rab3 GTPase-activating protein non-catalytic subunit OS=Rattus norvegicus GN=Rab3gap2 PE=1 SV=3	tr|D4ABP4|D4ABP4_RAT (+1)	0.00015
tr|F1LML7|F1LML7_RAT Protein Hip1r OS=Rattus norvegicus GN=Hip1r PE=1 SV=1	tr|F1LML7|F1LML7_RAT	0.0001
tr|F1LMQ3|F1LMQ3_RAT Protein Psmd8 OS=Rattus norvegicus GN=Psmd8 PE=1 SV=1	tr|F1LMQ3|F1LMQ3_RAT	0.00012
tr|F1M9W9|F1M9W9_RAT Protein LOC103689930 OS=Rattus norvegicus GN=Trappc8 PE=1 SV=2	tr|F1M9W9|F1M9W9_RAT	0.00015
tr|G3V6G7|G3V6G7_RAT Polyribonucleotide nucleotidyltransferase 1 OS=Rattus norvegicus GN=Pnpt1 PE=1 SV=1	tr|G3V6G7|G3V6G7_RAT	0.0002
tr|G3V6W2|G3V6W2_RAT Prolactin regulatory element-binding protein OS=Rattus norvegicus GN=Preb PE=1 SV=1	tr|G3V6W2|G3V6W2_RAT	0.00017
tr|G3V8Q1|G3V8Q1_RAT Coatomer protein complex, subunit epsilon (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Cope PE=1 SV=3	tr|G3V8Q1|G3V8Q1_RAT	0.00012
tr|G3V9N1|G3V9N1_RAT RCG21137 OS=Rattus norvegicus GN=Pgam5 PE=1 SV=1	tr|G3V9N1|G3V9N1_RAT	0.0001
tr|Q4V8E2|Q4V8E2_RAT Proteasome (Prosome, macropain) 26S subunit, non-ATPase, 14 OS=Rattus norvegicus GN=Psmd14 PE=1 SV=1	tr|Q4V8E2|Q4V8E2_RAT	0.00015
tr|Q6AYD5|Q6AYD5_RAT G1 to S phase transition 1 OS=Rattus norvegicus GN=Gspt1 PE=1 SV=1	tr|Q6AYD5|Q6AYD5_RAT	0.0001
tr|Q6AYM8|Q6AYM8_RAT Glycosylphosphatidylinositol anchor attachment protein 1 homolog (Yeast) OS=Rattus norvegicus GN=Gpaa1 PE=1 SV=1	tr|Q6AYM8|Q6AYM8_RAT	0.0002
tr|Q6P9V6|Q6P9V6_RAT Proteasome subunit alpha type OS=Rattus norvegicus GN=Psma5 PE=1 SV=1	tr|Q6P9V6|Q6P9V6_RAT	0.00017
sp|Q5M9G9|TBRG4_RAT Protein TBRG4 OS=Rattus norvegicus GN=Tbrg4 PE=2 SV=1	sp|Q5M9G9|TBRG4_RAT	0.0001
sp|P0C0S7|H2AZ_RAT Histone H2A.Z OS=Rattus norvegicus GN=H2afz PE=1 SV=2	sp|P0C0S7|H2AZ_RAT (+2)	0.0002
sp|A0JPJ7|OLA1_RAT Obg-like ATPase 1 OS=Rattus norvegicus GN=Ola1 PE=2 SV=1	sp|A0JPJ7|OLA1_RAT	0.00012
sp|B1WBW4|ARM10_RAT Armadillo repeat-containing protein 10 OS=Rattus norvegicus GN=Armc10 PE=1 SV=1	sp|B1WBW4|ARM10_RAT	0.0001
sp|O35828|CORO7_RAT Coronin-7 OS=Rattus norvegicus GN=Coro7 PE=1 SV=2	sp|O35828|CORO7_RAT	0.00017
sp|O88994|MARC2_RAT Mitochondrial amidoxime reducing component 2 OS=Rattus norvegicus GN=Marc2 PE=2 SV=1	sp|O88994|MARC2_RAT (+1)	0.0001
sp|P05765|RS21_RAT 40S ribosomal protein S21 OS=Rattus norvegicus GN=Rps21 PE=1 SV=1	sp|P05765|RS21_RAT (+1)	0.00015
sp|P06214|HEM2_RAT Delta-aminolevulinic acid dehydratase OS=Rattus norvegicus GN=Alad PE=1 SV=1	sp|P06214|HEM2_RAT	0.00012
sp|P18422|PSA3_RAT Proteasome subunit alpha type-3 OS=Rattus norvegicus GN=Psma3 PE=1 SV=3	sp|P18422|PSA3_RAT	0.00015
sp|P19234|NDUV2_RAT NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial OS=Rattus norvegicus GN=Ndufv2 PE=1 SV=2	sp|P19234|NDUV2_RAT	0.00015
sp|P21670|PSA4_RAT Proteasome subunit alpha type-4 OS=Rattus norvegicus GN=Psma4 PE=1 SV=1	sp|P21670|PSA4_RAT	0.0001
sp|P35952|LDLR_RAT Low-density lipoprotein receptor OS=Rattus norvegicus GN=Ldlr PE=1 SV=1	sp|P35952|LDLR_RAT (+1)	0.00017
sp|P36372|TAP2_RAT Antigen peptide transporter 2 OS=Rattus norvegicus GN=Tap2 PE=2 SV=1	sp|P36372|TAP2_RAT (+1)	0.00015
sp|P36972|APT_RAT Adenine phosphoribosyltransferase OS=Rattus norvegicus GN=Aprt PE=1 SV=1	sp|P36972|APT_RAT	0.000075
sp|P42676|NEUL_RAT Neurolysin, mitochondrial OS=Rattus norvegicus GN=Nln PE=1 SV=1	sp|P42676|NEUL_RAT (+2)	0.00012
sp|P70615|LMNB1_RAT Lamin-B1 OS=Rattus norvegicus GN=Lmnb1 PE=1 SV=3	sp|P70615|LMNB1_RAT (+1)	0.00015
sp|P83868|TEBP_RAT Prostaglandin E synthase 3 OS=Rattus norvegicus GN=Ptges3 PE=1 SV=2	sp|P83868|TEBP_RAT	0.00015
sp|P84092|AP2M1_RAT AP-2 complex subunit mu OS=Rattus norvegicus GN=Ap2m1 PE=1 SV=1	sp|P84092|AP2M1_RAT	0.00012
sp|P97532|THTM_RAT 3-mercaptopyruvate sulfurtransferase OS=Rattus norvegicus GN=Mpst PE=1 SV=3	sp|P97532|THTM_RAT	0.00015
sp|Q03346|MPPB_RAT Mitochondrial-processing peptidase subunit beta OS=Rattus norvegicus GN=Pmpcb PE=1 SV=3	sp|Q03346|MPPB_RAT	0.00012
sp|Q3B7U9|FKBP8_RAT Peptidyl-prolyl cis-trans isomerase FKBP8 OS=Rattus norvegicus GN=Fkbp8 PE=2 SV=1	sp|Q3B7U9|FKBP8_RAT	0.0001
sp|Q4FZY0|EFHD2_RAT EF-hand domain-containing protein D2 OS=Rattus norvegicus GN=Efhd2 PE=1 SV=1	sp|Q4FZY0|EFHD2_RAT	0.00012
sp|Q5HZV9|PP1R7_RAT Protein phosphatase 1 regulatory subunit 7 OS=Rattus norvegicus GN=Ppp1r7 PE=1 SV=1	sp|Q5HZV9|PP1R7_RAT	0.00012
sp|Q5I0E7|TMED9_RAT Transmembrane emp24 domain-containing protein 9 OS=Rattus norvegicus GN=Tmed9 PE=1 SV=1	sp|Q5I0E7|TMED9_RAT	0.00017
sp|Q5I0G4|SYG_RAT Glycine--tRNA ligase (Fragment) OS=Rattus norvegicus GN=Gars PE=1 SV=1	sp|Q5I0G4|SYG_RAT (+1)	0.0001
sp|Q5PPL3|NSDHL_RAT Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating OS=Rattus norvegicus GN=Nsdhl PE=2 SV=1	sp|Q5PPL3|NSDHL_RAT	0.0001
sp|Q63135-2|CR1L_RAT Isoform 2 of Complement component receptor 1-like protein OS=Rattus norvegicus GN=Cr1l	sp|Q63135-2|CR1L_RAT (+2)	0.0001
sp|Q63507|RL14_RAT 60S ribosomal protein L14 OS=Rattus norvegicus GN=Rpl14 PE=1 SV=3	sp|Q63507|RL14_RAT (+2)	0.00012
sp|Q63615|VP33A_RAT Vacuolar protein sorting-associated protein 33A OS=Rattus norvegicus GN=Vps33a PE=1 SV=1	sp|Q63615|VP33A_RAT	0.00017
sp|Q641X3|HEXA_RAT Beta-hexosaminidase subunit alpha OS=Rattus norvegicus GN=Hexa PE=2 SV=1	sp|Q641X3|HEXA_RAT	0.00017
sp|Q66H39|ABCF3_RAT ATP-binding cassette sub-family F member 3 OS=Rattus norvegicus GN=Abcf3 PE=2 SV=1	sp|Q66H39|ABCF3_RAT	0.00012
sp|Q6AY55|DCAKD_RAT Dephospho-CoA kinase domain-containing protein OS=Rattus norvegicus GN=Dcakd PE=2 SV=1	sp|Q6AY55|DCAKD_RAT	0.00015
sp|Q6AYT7|ABD12_RAT Monoacylglycerol lipase ABHD12 OS=Rattus norvegicus GN=Abhd12 PE=2 SV=1	sp|Q6AYT7|ABD12_RAT	0.00015
sp|Q6PDU7|ATP5L_RAT ATP synthase subunit g, mitochondrial OS=Rattus norvegicus GN=Atp5l PE=1 SV=2	sp|Q6PDU7|ATP5L_RAT	0.0002
sp|Q704S8|CACP_RAT Carnitine O-acetyltransferase OS=Rattus norvegicus GN=Crat PE=1 SV=1	sp|Q704S8|CACP_RAT (+1)	0.00015
sp|Q7TSA0|MIRO2_RAT Mitochondrial Rho GTPase 2 OS=Rattus norvegicus GN=Rhot2 PE=2 SV=1	sp|Q7TSA0|MIRO2_RAT	0.00025
Cluster of sp|Q7TT49|MRCKB_RAT Serine/threonine-protein kinase MRCK beta OS=Rattus norvegicus GN=Cdc42bpb PE=1 SV=1 (sp|Q7TT49|MRCKB_RAT)	sp|Q7TT49|MRCKB_RAT [2]	0.00012
sp|Q7TT49|MRCKB_RAT Serine/threonine-protein kinase MRCK beta OS=Rattus norvegicus GN=Cdc42bpb PE=1 SV=1	sp|Q7TT49|MRCKB_RAT (+1)	0.0001
sp|Q99N27|SNX1_RAT Sorting nexin-1 OS=Rattus norvegicus GN=Snx1 PE=1 SV=1	sp|Q99N27|SNX1_RAT	0.00015
sp|Q9EPB1|DPP2_RAT Dipeptidyl peptidase 2 OS=Rattus norvegicus GN=Dpp7 PE=1 SV=1	sp|Q9EPB1|DPP2_RAT	0.00015
sp|Q9EST6|AN32B_RAT Acidic leucine-rich nuclear phosphoprotein 32 family member B OS=Rattus norvegicus GN=Anp32b PE=1 SV=1	sp|Q9EST6|AN32B_RAT	0.00012

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q9JJM9-2|SEPT5_RAT Isoform 2 of Septin-5 OS=Rattus norvegicus GN=Sept5	sp|Q9JJM9-2|SEPT5_RAT (+4)	0.00015
sp|Q9Z2Q1-2|SC31A_RAT Isoform 2 of Protein transport protein Sec31A OS=Rattus norvegicus GN=Sec31a	sp|Q9Z2Q1-2|SC31A_RAT (+3)	0.00015
tr|A0A0G2JZV8|A0A0G2JZV8_RAT Fragile X mental retardation protein 1 homolog OS=Rattus norvegicus GN=Fmr1 PE=1 SV=1	tr|A0A0G2JZV8|A0A0G2JZV8_RAT	0.0002
tr|A0A0G2K059|A0A0G2K059_RAT Protein Mcu OS=Rattus norvegicus GN=Mcu PE=1 SV=1	tr|A0A0G2K059|A0A0G2K059_RAT	0.00012
tr|A0A0G2K2P5|A0A0G2K2P5_RAT Protein Tjp1 OS=Rattus norvegicus GN=Tjp1 PE=1 SV=1	tr|A0A0G2K2P5|A0A0G2K2P5_RAT (+1)	0.00017
tr|A0A0G2K3N1|A0A0G2K3N1_RAT Protein Gbf1 OS=Rattus norvegicus GN=Gbf1 PE=1 SV=1	tr|A0A0G2K3N1|A0A0G2K3N1_RAT (+1)	0.00015
tr|A0A0G2K5E4|A0A0G2K5E4_RAT Protein Dnaja3 OS=Rattus norvegicus GN=Dnaja3 PE=1 SV=1	tr|A0A0G2K5E4|A0A0G2K5E4_RAT (+1)	0.00015
tr|A0A0G2K5Q8|A0A0G2K5Q8_RAT Protein Clk2 OS=Rattus norvegicus GN=Clk2 PE=1 SV=1	tr|A0A0G2K5Q8|A0A0G2K5Q8_RAT	0.0001
Cluster of tr|A0A0G2K756|A0A0G2K756_RAT Acyl-Coenzyme A binding domain containing 3 OS=Rattus norvegicus GN=Acbd3 PE=1 SV=1 (tr|A0A0G2K756|A0A0G2K7	tr|A0A0G2K756|A0A0G2K756_RAT	0.0001
tr|A0A0G2K756|A0A0G2K756_RAT Acyl-Coenzyme A binding domain containing 3 OS=Rattus norvegicus GN=Acbd3 PE=1 SV=1	tr|A0A0G2K756|A0A0G2K756_RAT	0.0001
tr|A0A0G2K7X6|A0A0G2K7X6_RAT Protein Ddx19a OS=Rattus norvegicus GN=Ddx19b PE=1 SV=1	tr|A0A0G2K7X6|A0A0G2K7X6_RAT (+1)	0.00012
tr|A0A0G2K9P5|A0A0G2K9P5_RAT Protein Cog5 OS=Rattus norvegicus GN=Cog5 PE=1 SV=1	tr|A0A0G2K9P5|A0A0G2K9P5_RAT	0.00015
tr|B0BN30|B0BN30_RAT Mtch1 protein OS=Rattus norvegicus GN=Mtch1 PE=1 SV=1	tr|B0BN30|B0BN30_RAT	0.00012
tr|B0BN63|B0BN63_RAT LOC681996 protein OS=Rattus norvegicus GN=Ahsa1 PE=1 SV=1	tr|B0BN63|B0BN63_RAT	0.00012
tr|B1WC49|B1WC49_RAT Api5 protein OS=Rattus norvegicus GN=Api5 PE=1 SV=1	tr|B1WC49|B1WC49_RAT	0.0001
tr|B2RYC9|B2RYC9_RAT Glucosylceramidase OS=Rattus norvegicus GN=Gba PE=1 SV=1	tr|B2RYC9|B2RYC9_RAT	0.00012
Cluster of tr|D3ZBT9|D3ZBT9_RAT Protein Ppp6r3 OS=Rattus norvegicus GN=Ppp6r3 PE=1 SV=2 (tr|D3ZBT9|D3ZBT9_RAT)	tr|D3ZBT9|D3ZBT9_RAT [4]	0.00012
tr|D3ZBT9|D3ZBT9_RAT Protein Ppp6r3 OS=Rattus norvegicus GN=Ppp6r3 PE=1 SV=2	tr|D3ZBT9|D3ZBT9_RAT (+1)	0.00012
tr|A0A0G2JTK4|A0A0G2JTK4_RAT Protein Ppp6r1 OS=Rattus norvegicus GN=Ppp6r1 PE=1 SV=1	tr|A0A0G2JTK4|A0A0G2JTK4_RAT (+1)	0.000025
tr|D3ZCG9|D3ZCG9_RAT Integrin alpha 3 variant A OS=Rattus norvegicus GN=Itga3 PE=2 SV=1	tr|D3ZCG9|D3ZCG9_RAT (+1)	0.0001
tr|D3ZR52|D3ZR52_RAT Protein Lpcat4 OS=Rattus norvegicus GN=Lpcat4 PE=4 SV=3	tr|D3ZR52|D3ZR52_RAT	0.00017
tr|D3ZUP8|D3ZUP8_RAT Protein Lmbrd2 OS=Rattus norvegicus GN=Lmbrd2 PE=1 SV=1	tr|D3ZUP8|D3ZUP8_RAT	0.00012
tr|D3ZZR5|D3ZZR5_RAT Protein Snrpa1 OS=Rattus norvegicus GN=Snrpa1 PE=1 SV=1	tr|D3ZZR5|D3ZZR5_RAT	0.0001
tr|D4AC36|D4AC36_RAT Eukaryotic translation initiation factor 3 subunit F OS=Rattus norvegicus GN=Eif3f PE=1 SV=3	tr|D4AC36|D4AC36_RAT	0.00017
tr|D4AE49|D4AE49_RAT Protein Skiv2l2 OS=Rattus norvegicus GN=Skiv2l2 PE=1 SV=3	tr|D4AE49|D4AE49_RAT	0.00015
Cluster of tr|D4AEP0|D4AEP0_RAT Adenylosuccinate synthetase isozyme 2 OS=Rattus norvegicus GN=Adss PE=1 SV=1 (tr|D4AEP0|D4AEP0_RAT)	tr|D4AEP0|D4AEP0_RAT [2]	0.00012
tr|D4AEP0|D4AEP0_RAT Adenylosuccinate synthetase isozyme 2 OS=Rattus norvegicus GN=Adss PE=1 SV=1	tr|D4AEP0|D4AEP0_RAT	0.0001
tr|M0R629|M0R629_RAT Adenylosuccinate synthetase isozyme 1 OS=Rattus norvegicus GN=Adssl1 PE=1 SV=1	tr|M0R629|M0R629_RAT	0.00005
tr|F1LPG3|F1LPG3_RAT Phosphofurin acidic cluster sorting protein 1 OS=Rattus norvegicus GN=Pacs1 PE=1 SV=1	tr|F1LPG3|F1LPG3_RAT	0.00012
tr|F1LU71|F1LU71_RAT AU RNA binding protein/enoyl-coenzyme A hydratase (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Auh PE=1 SV=2	tr|F1LU71|F1LU71_RAT	0.00012
tr|F1M9D6|F1M9D6_RAT Signal transducer and activator of transcription OS=Rattus norvegicus GN=Stat1 PE=1 SV=2	tr|F1M9D6|F1M9D6_RAT	0.00012
tr|G3V9T7|G3V9T7_RAT ATPase Asna1 OS=Rattus norvegicus GN=Asna1 PE=1 SV=1	tr|G3V9T7|G3V9T7_RAT	0.0001
tr|M0R6J0|M0R6J0_RAT Protein Mrpl39 OS=Rattus norvegicus GN=Mrpl39 PE=1 SV=2	tr|M0R6J0|M0R6J0_RAT	0.00012
tr|M0R9L0|M0R9L0_RAT Protein Naca OS=Rattus norvegicus GN=Naca PE=1 SV=1	tr|M0R9L0|M0R9L0_RAT	0.00012
tr|M0RCN1|M0RCN1_RAT Protein LOC100361079 OS=Rattus norvegicus GN=LOC100361079 PE=4 SV=2	tr|M0RCN1|M0RCN1_RAT	0.0003
tr|Q4G067|Q4G067_RAT Mitochondrial ribosomal protein L44 OS=Rattus norvegicus GN=Mrpl44 PE=1 SV=1	tr|Q4G067|Q4G067_RAT	0.00012
tr|Q52KJ9|Q52KJ9_RAT Protein Tmx1 OS=Rattus norvegicus GN=Tmx1 PE=1 SV=1	tr|Q52KJ9|Q52KJ9_RAT	0.00015
tr|Q5U2T9|Q5U2T9_RAT FK506 binding protein 5 OS=Rattus norvegicus GN=Fkbp5 PE=1 SV=1	tr|Q5U2T9|Q5U2T9_RAT	0.0001
tr|Q6AXX5|Q6AXX5_RAT Protein Rdh11 OS=Rattus norvegicus GN=Rdh11 PE=1 SV=1	tr|Q6AXX5|Q6AXX5_RAT (+1)	0.00015
sp|B2RZ78|VPS29_RAT Vacuolar protein sorting-associated protein 29 OS=Rattus norvegicus GN=Vps29 PE=1 SV=2	sp|B2RZ78|VPS29_RAT	0.00012
sp|O55159|EPCAM_RAT Epithelial cell adhesion molecule OS=Rattus norvegicus GN=Epcam PE=1 SV=1	sp|O55159|EPCAM_RAT	0.0001
sp|O88370|PI42C_RAT Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma OS=Rattus norvegicus GN=Pip4k2c PE=1 SV=1	sp|O88370|PI42C_RAT (+1)	0.00012
sp|P40307|PSB2_RAT Proteasome subunit beta type-2 OS=Rattus norvegicus GN=Psmb2 PE=1 SV=1	sp|P40307|PSB2_RAT	0.00012
sp|P41562|IDHC_RAT Isocitrate dehydrogenase [NADP] cytoplasmic OS=Rattus norvegicus GN=Idh1 PE=1 SV=1	sp|P41562|IDHC_RAT	0.00015
sp|P48450|ERG7_RAT Lanosterol synthase OS=Rattus norvegicus GN=Lss PE=1 SV=2	sp|P48450|ERG7_RAT (+1)	0.00012
Cluster of sp|P48500|TPIS_RAT Triosephosphate isomerase OS=Rattus norvegicus GN=Tpi1 PE=1 SV=2 (sp|P48500|TPIS_RAT)	sp|P48500|TPIS_RAT	0.00012
sp|P48500|TPIS_RAT Triosephosphate isomerase OS=Rattus norvegicus GN=Tpi1 PE=1 SV=2	sp|P48500|TPIS_RAT	0.00012
sp|P50503|F10A1_RAT Hsc70-interacting protein OS=Rattus norvegicus GN=St13 PE=1 SV=1	sp|P50503|F10A1_RAT	0.00012
sp|P54001|P4HA1_RAT Prolyl 4-hydroxylase subunit alpha-1 OS=Rattus norvegicus GN=P4ha1 PE=2 SV=2	sp|P54001|P4HA1_RAT	0.00012
sp|P60868|RS20_RAT 40S ribosomal protein S20 OS=Rattus norvegicus GN=Rps20 PE=3 SV=1	sp|P60868|RS20_RAT (+3)	0.00015
sp|P61203|CSN2_RAT COP9 signalosome complex subunit 2 OS=Rattus norvegicus GN=Cops2 PE=1 SV=1	sp|P61203|CSN2_RAT	0.0001
sp|P61589|RHOA_RAT Transforming protein RhoA OS=Rattus norvegicus GN=Rhoa PE=1 SV=1	sp|P61589|RHOA_RAT	0.00012
sp|P61621|S61A1_RAT Protein transport protein Sec61 subunit alpha isoform 1 OS=Rattus norvegicus GN=Sec61a1 PE=2 SV=2	sp|P61621|S61A1_RAT	0.00012
sp|P61805|DAD1_RAT Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1 OS=Rattus norvegicus GN=Dad1 PE=3 SV=3	sp|P61805|DAD1_RAT	0.00012
sp|P62898|CYC_RAT Cytochrome c, somatic OS=Rattus norvegicus GN=Cycs PE=1 SV=2	sp|P62898|CYC_RAT (+1)	0.00012
sp|P97576|GRPE1_RAT GrpE protein homolog 1, mitochondrial OS=Rattus norvegicus GN=Grpel1 PE=1 SV=2	sp|P97576|GRPE1_RAT (+1)	0.00012
sp|Q09167|SRSF5_RAT Serine/arginine-rich splicing factor 5 OS=Rattus norvegicus GN=Srsf5 PE=1 SV=1	sp|Q09167|SRSF5_RAT	0.00017
sp|Q2TL32|UBR4_RAT E3 ubiquitin-protein ligase UBR4 OS=Rattus norvegicus GN=Ubr4 PE=1 SV=2	sp|Q2TL32|UBR4_RAT (+2)	0.000075
sp|Q3B8Q1|DDX21_RAT Nucleolar RNA helicase 2 OS=Rattus norvegicus GN=Ddx21 PE=2 SV=1	sp|Q3B8Q1|DDX21_RAT	0.0001
sp|Q4V7A0|WDR61_RAT WD repeat-containing protein 61 OS=Rattus norvegicus GN=Wdr61 PE=1 SV=1	sp|Q4V7A0|WDR61_RAT	0.0001
sp|Q5HZE2|T120A_RAT Transmembrane protein 120A OS=Rattus norvegicus GN=Tmem120a PE=2 SV=1	sp|Q5HZE2|T120A_RAT	0.00012
sp|Q62785|HAP28_RAT 28 kDa heat- and acid-stable phosphoprotein OS=Rattus norvegicus GN=Pdap1 PE=1 SV=1	sp|Q62785|HAP28_RAT	0.00012
sp|Q63186|EI2BD_RAT Translation initiation factor eIF-2B subunit delta OS=Rattus norvegicus GN=Eif2b4 PE=2 SV=1	sp|Q63186|EI2BD_RAT	0.00012
sp|Q63524|TMED2_RAT Transmembrane emp24 domain-containing protein 2 OS=Rattus norvegicus GN=Tmed2 PE=1 SV=1	sp|Q63524|TMED2_RAT	0.00012
Cluster of sp|Q63598|PLST_RAT Plastin-3 OS=Rattus norvegicus GN=Pls3 PE=1 SV=2 (sp|Q63598|PLST_RAT)	sp|Q63598|PLST_RAT [2]	0.00015

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q63598|PLST_RAT Plastin-3 OS=Rattus norvegicus GN=Pls3 PE=1 SV=2	sp|Q63598|PLST_RAT (+1)	0.00015
sp|Q66HR0|S12A9_RAT Solute carrier family 12 member 9 OS=Rattus norvegicus GN=Slc12a9 PE=1 SV=1	sp|Q66HR0|S12A9_RAT	0.0001
sp|Q6AYS8|DHB11_RAT Estradiol 17-beta-dehydrogenase 11 OS=Rattus norvegicus GN=Hsd17b11 PE=2 SV=1	sp|Q6AYS8|DHB11_RAT	0.00015
sp|Q6P5P5|MEST_RAT Mesoderm-specific transcript homolog protein OS=Rattus norvegicus GN=Mest PE=2 SV=1	sp|Q6P5P5|MEST_RAT	0.00017
sp|Q6PCU2|VATE1_RAT V-type proton ATPase subunit E 1 OS=Rattus norvegicus GN=Atp6v1e1 PE=1 SV=1	sp|Q6PCU2|VATE1_RAT (+1)	0.00012
sp|Q6UPR8|ERMP1_RAT Endoplasmic reticulum metallopeptidase 1 OS=Rattus norvegicus GN=Ermp1 PE=1 SV=1	sp|Q6UPR8|ERMP1_RAT (+1)	0.00012
Cluster of sp|Q78P75|DYL2_RAT Dynein light chain 2, cytoplasmic OS=Rattus norvegicus GN=Dynll2 PE=1 SV=1 (sp|Q78P75|DYL2_RAT)	sp|Q78P75|DYL2_RAT [2]	0.0001
sp|Q78P75|DYL2_RAT Dynein light chain 2, cytoplasmic OS=Rattus norvegicus GN=Dynll2 PE=1 SV=1	sp|Q78P75|DYL2_RAT	0.000075
sp|P63170|DYL1_RAT Dynein light chain 1, cytoplasmic OS=Rattus norvegicus GN=Dynll1 PE=1 SV=1	sp|P63170|DYL1_RAT	0.000075
sp|Q80Z29|NAMPT_RAT Nicotinamide phosphoribosyltransferase OS=Rattus norvegicus GN=Nampt PE=1 SV=1	sp|Q80Z29|NAMPT_RAT (+1)	0.00012
Cluster of sp|Q812D1|PSIP1_RAT PC4 and SFRS1-interacting protein OS=Rattus norvegicus GN=Psip1 PE=1 SV=1 (sp|Q812D1|PSIP1_RAT)	sp|Q812D1|PSIP1_RAT [5]	0.00012
sp|Q812D1|PSIP1_RAT PC4 and SFRS1-interacting protein OS=Rattus norvegicus GN=Psip1 PE=1 SV=1	sp|Q812D1|PSIP1_RAT (+1)	0.0001
sp|Q925G1-2|HDGR2_RAT Isoform 2 of Hepatoma-derived growth factor-related protein 2 OS=Rattus norvegicus GN=Hdgfrp2	sp|Q925G1-2|HDGR2_RAT (+2)	0.00005
sp|Q9EQX9|UBE2N_RAT Ubiquitin-conjugating enzyme E2 N OS=Rattus norvegicus GN=Ube2n PE=1 SV=1	sp|Q9EQX9|UBE2N_RAT	0.00015
sp|Q9ERH3|WDR7_RAT WD repeat-containing protein 7 OS=Rattus norvegicus GN=Wdr7 PE=1 SV=1	sp|Q9ERH3|WDR7_RAT	0.00012
sp|Q9WVK7|HCDH_RAT Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Hadh PE=2 SV=1	sp|Q9WVK7|HCDH_RAT	0.00015
sp|Q9Z122|FADS2_RAT Fatty acid desaturase 2 OS=Rattus norvegicus GN=Fads2 PE=2 SV=1	sp|Q9Z122|FADS2_RAT	0.000075
tr|A0A0G2JXA1|A0A0G2JXA1_RAT Rab3 GTPase-activating protein catalytic subunit OS=Rattus norvegicus GN=Rab3gap1 PE=1 SV=1	tr|A0A0G2JXA1|A0A0G2JXA1_RAT (+1)	0.00012
tr|A0A0G2K1A0|A0A0G2K1A0_RAT Protein LOC102553099 OS=Rattus norvegicus GN=LOC102553099 PE=4 SV=1	tr|A0A0G2K1A0|A0A0G2K1A0_RAT (+2)	0.00012
tr|A0A0G2K777|A0A0G2K777_RAT Protein Rhot1 OS=Rattus norvegicus GN=Rhot1 PE=1 SV=1	tr|A0A0G2K777|A0A0G2K777_RAT (+1)	0.0002
tr|B0BN68|B0BN68_RAT Mitochondrial ribosomal protein S9 OS=Rattus norvegicus GN=Mrps9 PE=1 SV=1	tr|B0BN68|B0BN68_RAT	0.0001
tr|B0BNG7|B0BNG7_RAT Nudt16l1 protein OS=Rattus norvegicus GN=Nudt16l1 PE=1 SV=1	tr|B0BNG7|B0BNG7_RAT	0.00017
tr|B1WC02|B1WC02_RAT CTP synthase OS=Rattus norvegicus GN=Ctps1 PE=1 SV=1	tr|B1WC02|B1WC02_RAT	0.0001
tr|B2RYJ7|B2RYJ7_RAT ARP1 actin-related protein 1 homolog B (Yeast) OS=Rattus norvegicus GN=Actr1b PE=1 SV=1	tr|B2RYJ7|B2RYJ7_RAT	0.0004
tr|B2RYP8|B2RYP8_RAT A disintegrin and metalloprotease domain 8 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Tubgcp2 PE=1 SV=1	tr|B2RYP8|B2RYP8_RAT	0.00015
tr|B2RZC6|B2RZC6_RAT Ilf2 protein OS=Rattus norvegicus GN=Ilf2 PE=1 SV=1	tr|B2RZC6|B2RZC6_RAT	0.000075
tr|B5DEN5|B5DEN5_RAT Eukaryotic translation elongation factor 1 beta 2 OS=Rattus norvegicus GN=Eef1b2 PE=1 SV=1	tr|B5DEN5|B5DEN5_RAT	0.00015
tr|B5DF29|B5DF29_RAT Protein Rfc5 OS=Rattus norvegicus GN=Rfc5 PE=1 SV=1	tr|B5DF29|B5DF29_RAT	0.00012
tr|D3ZBM3|D3ZBM3_RAT Ferrochelatase OS=Rattus norvegicus GN=Fech PE=1 SV=1	tr|D3ZBM3|D3ZBM3_RAT	0.00015
tr|D3ZDI7|D3ZDI7_RAT Protein Ppp2r5a OS=Rattus norvegicus GN=Ppp2r5a PE=1 SV=1	tr|D3ZDI7|D3ZDI7_RAT	0.00012
tr|D3ZL50|D3ZL50_RAT Protein Ttc37 OS=Rattus norvegicus GN=Ttc37 PE=1 SV=3	tr|D3ZL50|D3ZL50_RAT	0.0001
tr|D3ZWJ9|D3ZWJ9_RAT Protein Fam234b OS=Rattus norvegicus GN=Fam234b PE=1 SV=1	tr|D3ZWJ9|D3ZWJ9_RAT	0.00015
tr|D3ZYT2|D3ZYT2_RAT Mitochondrial ribosomal protein S5 (Predicted) OS=Rattus norvegicus GN=Mrps5 PE=1 SV=1	tr|D3ZYT2|D3ZYT2_RAT	0.0001
tr|D4A5X7|D4A5X7_RAT Ganglioside-induced differentiation-associated-protein 1 (Predicted) OS=Rattus norvegicus GN=Gdap1 PE=4 SV=1	tr|D4A5X7|D4A5X7_RAT	0.0001
tr|D4A8A0|D4A8A0_RAT DNA fragmentation factor subunit beta OS=Rattus norvegicus GN=Cad PE=1 SV=2	tr|D4A8A0|D4A8A0_RAT	0.00015
tr|D4A9N5|D4A9N5_RAT Protein Trim25 OS=Rattus norvegicus GN=Trim25 PE=1 SV=3	tr|D4A9N5|D4A9N5_RAT	0.00012
tr|D4AAE9|D4AAE9_RAT Protein Cisd2 OS=Rattus norvegicus GN=Cisd2 PE=1 SV=1	tr|D4AAE9|D4AAE9_RAT	0.00012
tr|F1LN92|F1LN92_RAT Protein Afg3l2 OS=Rattus norvegicus GN=Afg3l2 PE=1 SV=1	tr|F1LN92|F1LN92_RAT	0.00017
Cluster of tr|F1LQ62|F1LQ62_RAT Ras-related protein Ral-B OS=Rattus norvegicus GN=Ralb PE=1 SV=3 (tr|F1LQ62|F1LQ62_RAT)	tr|F1LQ62|F1LQ62_RAT [2]	0.0001
tr|F1LQ62|F1LQ62_RAT Ras-related protein Ral-B OS=Rattus norvegicus GN=Ralb PE=1 SV=3	tr|F1LQ62|F1LQ62_RAT	0.000075
sp|P63322|RALA_RAT Ras-related protein Ral-A OS=Rattus norvegicus GN=Rala PE=1 SV=1	sp|P63322|RALA_RAT	0.00005
tr|F1LR10|F1LR10_RAT Epithelial protein lost in neoplasm OS=Rattus norvegicus GN=Lima1 PE=1 SV=2	tr|F1LR10|F1LR10_RAT	0.00012
tr|F1MAD9|F1MAD9_RAT Structural maintenance of chromosomes protein OS=Rattus norvegicus GN=Smc4 PE=1 SV=1	tr|F1MAD9|F1MAD9_RAT	0.0001
Cluster of tr|G3V7N5|G3V7N5_RAT Carnitine O-palmitoyltransferase 2, mitochondrial OS=Rattus norvegicus GN=Cpt2 PE=1 SV=1 (tr|G3V7N5|G3V7N5_RAT)	tr|G3V7N5|G3V7N5_RAT	0.0001
tr|G3V7N5|G3V7N5_RAT Carnitine O-palmitoyltransferase 2, mitochondrial OS=Rattus norvegicus GN=Cpt2 PE=1 SV=1	tr|G3V7N5|G3V7N5_RAT	0.0001
tr|O88321|O88321_RAT Antisecretory factor OS=Rattus norvegicus GN=Psmd4 PE=1 SV=1	tr|O88321|O88321_RAT	0.00012
tr|Q4FZS2|Q4FZS2_RAT Budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae) OS=Rattus norvegicus GN=Bub3 PE=1 SV=1	tr|Q4FZS2|Q4FZS2_RAT	0.00012
tr|Q4G079|Q4G079_RAT Protein Aimp1 OS=Rattus norvegicus GN=Aimp1 PE=1 SV=1	tr|Q4G079|Q4G079_RAT	0.00005
tr|Q5BJP4|Q5BJP4_RAT Protein LOC100910882 OS=Rattus norvegicus GN=Rbm39 PE=1 SV=1	tr|Q5BJP4|Q5BJP4_RAT	0.00015
tr|Q5U1Z9|Q5U1Z9_RAT Metaxin 2 OS=Rattus norvegicus GN=Mtx2 PE=1 SV=1	tr|Q5U1Z9|Q5U1Z9_RAT	0.00012
tr|Q5XI86|Q5XI86_RAT Peptidyl-tRNA hydrolase 2 OS=Rattus norvegicus GN=Ptrh2 PE=1 SV=1	tr|Q5XI86|Q5XI86_RAT	0.0001
tr|Q5XIN4|Q5XIN4_RAT Myotubularin related protein 9 OS=Rattus norvegicus GN=Mtmr9 PE=1 SV=1	tr|Q5XIN4|Q5XIN4_RAT	0.0001
Cluster of tr|Q68FZ8|Q68FZ8_RAT Propionyl coenzyme A carboxylase, beta polypeptide OS=Rattus norvegicus GN=Pccb PE=1 SV=1 (tr|Q68FZ8|Q68FZ8_RAT)	tr|Q68FZ8|Q68FZ8_RAT [2]	0.00015
tr|Q68FZ8|Q68FZ8_RAT Propionyl coenzyme A carboxylase, beta polypeptide OS=Rattus norvegicus GN=Pccb PE=1 SV=1	tr|Q68FZ8|Q68FZ8_RAT	0.00012
sp|P07633|PCCB_RAT Propionyl-CoA carboxylase beta chain, mitochondrial OS=Rattus norvegicus GN=Pccb PE=2 SV=1	sp|P07633|PCCB_RAT	0.0001
tr|Q6IRJ7|Q6IRJ7_RAT Annexin OS=Rattus norvegicus GN=Anxa7 PE=1 SV=1	tr|Q6IRJ7|Q6IRJ7_RAT	0.0001
sp|Q6PDU1|SRSF2_RAT Serine/arginine-rich splicing factor 2 OS=Rattus norvegicus GN=Srsf2 PE=1 SV=3	sp|Q6PDU1|SRSF2_RAT	0.0001
sp|Q9Z142|TMM33_RAT Transmembrane protein 33 OS=Rattus norvegicus GN=Tmem33 PE=2 SV=1	sp|Q9Z142|TMM33_RAT (+1)	0.0001
tr|G3V6U9|G3V6U9_RAT Protein Setd3 OS=Rattus norvegicus GN=Setd3 PE=1 SV=1	tr|G3V6U9|G3V6U9_RAT	0.0001
sp|P0C5W1|MAP1S_RAT Microtubule-associated protein 1S OS=Rattus norvegicus GN=Map1s PE=1 SV=1	sp|P0C5W1|MAP1S_RAT (+1)	0.00012
tr|D4A414|D4A414_RAT COX15 homolog, cytochrome c oxidase assembly protein (Yeast), isoform CRA_a OS=Rattus norvegicus GN=Cox15 PE=1 SV=1	tr|D4A414|D4A414_RAT	0.00005
Cluster of sp|O35964|SH3G1_RAT Endophilin-A2 OS=Rattus norvegicus GN=Sh3gl1 PE=1 SV=1 (sp|O35964|SH3G1_RAT)	sp|O35964|SH3G1_RAT [2]	0.00017
sp|O35964|SH3G1_RAT Endophilin-A2 OS=Rattus norvegicus GN=Sh3gl1 PE=1 SV=1	sp|O35964|SH3G1_RAT	0.00015
sp|O35179|SH3G2_RAT Endophilin-A1 OS=Rattus norvegicus GN=Sh3gl2 PE=1 SV=2	sp|O35179|SH3G2_RAT	0.00005
tr|Q3KR94|Q3KR94_RAT Protein Vtn OS=Rattus norvegicus GN=Vtn PE=1 SV=1	tr|Q3KR94|Q3KR94_RAT (+1)	0.000075

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q68A21|PURB_RAT Transcriptional activator protein Pur-beta OS=Rattus norvegicus GN=Purb PE=1 SV=3	sp|Q68A21|PURB_RAT (+1)	0.00005
sp|G3V9R8|HNRPC_RAT Heterogeneous nuclear ribonucleoprotein C OS=Rattus norvegicus GN=Hnrnpc PE=1 SV=2	sp|G3V9R8|HNRPC_RAT (+2)	0.0001
sp|O35244|PRDX6_RAT Peroxiredoxin-6 OS=Rattus norvegicus GN=Prdx6 PE=1 SV=3	sp|O35244|PRDX6_RAT	0.00005
sp|O35889-2|AFAD_RAT Isoform 2 of Afadin OS=Rattus norvegicus GN=Mllt4	sp|O35889-2|AFAD_RAT (+1)	0.00015
sp|O54921|EXOC2_RAT Exocyst complex component 2 OS=Rattus norvegicus GN=Exoc2 PE=1 SV=1	sp|O54921|EXOC2_RAT (+2)	0.0001
sp|P05369|FPPS_RAT Farnesyl pyrophosphate synthase OS=Rattus norvegicus GN=Fdps PE=2 SV=2	sp|P05369|FPPS_RAT (+3)	0.00012
sp|P06762|HMOX1_RAT Heme oxygenase 1 OS=Rattus norvegicus GN=Hmox1 PE=1 SV=1	sp|P06762|HMOX1_RAT	0.00012
sp|P21708-2|MK03_RAT Isoform 2 of Mitogen-activated protein kinase 3 OS=Rattus norvegicus GN=Mapk3	sp|P21708-2|MK03_RAT (+1)	0.00022
sp|P22734-2|COMT_RAT Isoform 2 of Catechol O-methyltransferase OS=Rattus norvegicus GN=Comt	sp|P22734-2|COMT_RAT (+1)	0.00012
sp|P23711|HMOX2_RAT Heme oxygenase 2 OS=Rattus norvegicus GN=Hmox2 PE=1 SV=1	sp|P23711|HMOX2_RAT	0.00017
sp|P28042|SSBP_RAT Single-stranded DNA-binding protein, mitochondrial OS=Rattus norvegicus GN=Ssbp1 PE=1 SV=2	sp|P28042|SSBP_RAT (+2)	0.00012
sp|P29315|RINI_RAT Ribonuclease inhibitor OS=Rattus norvegicus GN=Rnh1 PE=1 SV=2	sp|P29315|RINI_RAT (+2)	0.000075
sp|P29419|ATP5I_RAT ATP synthase subunit e, mitochondrial OS=Rattus norvegicus GN=Atp5i PE=1 SV=3	sp|P29419|ATP5I_RAT	0.00012
sp|P31044|PEBP1_RAT Phosphatidylethanolamine-binding protein 1 OS=Rattus norvegicus GN=Pebp1 PE=1 SV=3	sp|P31044|PEBP1_RAT	0.00012
sp|P56522|ADRO_RAT NADPH:adrenodoxin oxidoreductase, mitochondrial OS=Rattus norvegicus GN=Fdxr PE=1 SV=1	sp|P56522|ADRO_RAT	0.00012
sp|P85968|6PGD_RAT 6-phosphogluconate dehydrogenase, decarboxylating OS=Rattus norvegicus GN=Pgd PE=1 SV=1	sp|P85968|6PGD_RAT	0.000075
Cluster of sp|P97546-1|NPTN_RAT Isoform 1 of Neuroplastin OS=Rattus norvegicus GN=Nptn (sp|P97546-1|NPTN_RAT)	sp|P97546-1|NPTN_RAT	0.0001
sp|P97546-1|NPTN_RAT Isoform 1 of Neuroplastin OS=Rattus norvegicus GN=Nptn	sp|P97546-1|NPTN_RAT	0.0001
sp|Q02769|FDFT_RAT Squalene synthase OS=Rattus norvegicus GN=Fdft1 PE=2 SV=1	sp|Q02769|FDFT_RAT	0.0001
sp|Q05695-2|L1CAM_RAT Isoform 2 of Neural cell adhesion molecule L1 OS=Rattus norvegicus GN=L1cam	sp|Q05695-2|L1CAM_RAT (+3)	0.000075
sp|Q32PX2|AIMP2_RAT Aminoacyl tRNA synthase complex-interacting multifunctional protein 2 OS=Rattus norvegicus GN=Aimp2 PE=2 SV=1	sp|Q32PX2|AIMP2_RAT	0.00012
sp|Q3B7D0|HEM6_RAT Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial OS=Rattus norvegicus GN=Cpox PE=1 SV=1	sp|Q3B7D0|HEM6_RAT	0.00012
sp|Q3T1L0|A16A1_RAT Aldehyde dehydrogenase family 16 member A1 OS=Rattus norvegicus GN=Aldh16a1 PE=2 SV=1	sp|Q3T1L0|A16A1_RAT	0.000075
sp|Q4KLH4|PSPC1_RAT Paraspeckle component 1 OS=Rattus norvegicus GN=Pspc1 PE=1 SV=1	sp|Q4KLH4|PSPC1_RAT (+1)	0.00012
sp|Q4V8C2|ZW10_RAT Centromere/kinetochore protein zw10 homolog OS=Rattus norvegicus GN=Zw10 PE=2 SV=3	sp|Q4V8C2|ZW10_RAT	0.00015
sp|Q5FVM4|NONO_RAT Non-POU domain-containing octamer-binding protein OS=Rattus norvegicus GN=Nono PE=1 SV=3	sp|Q5FVM4|NONO_RAT	0.00015
sp|Q5M818|RM16_RAT 39S ribosomal protein L16, mitochondrial OS=Rattus norvegicus GN=Mrpl16 PE=2 SV=1	sp|Q5M818|RM16_RAT	0.00012
sp|Q5M827|PIR_RAT Pirin OS=Rattus norvegicus GN=Pir PE=1 SV=1	sp|Q5M827|PIR_RAT	0.000075
sp|Q5RJR2|TWF1_RAT Twinfilin-1 OS=Rattus norvegicus GN=Twf1 PE=1 SV=1	sp|Q5RJR2|TWF1_RAT	0.0001
sp|Q5U2V8|EMC3_RAT ER membrane protein complex subunit 3 OS=Rattus norvegicus GN=Emc3 PE=2 SV=3	sp|Q5U2V8|EMC3_RAT	0.000075
sp|Q5XI97|AASD1_RAT Alanyl-tRNA editing protein Aarsd1 OS=Rattus norvegicus GN=Aarsd1 PE=1 SV=1	sp|Q5XI97|AASD1_RAT	0.0001
sp|Q5XIE6-2|HIBCH_RAT Isoform 2 of 3-hydroxyisobutyryl-CoA hydrolase, mitochondrial OS=Rattus norvegicus GN=Hibch	sp|Q5XIE6-2|HIBCH_RAT (+1)	0.0001
sp|Q62667|MVP_RAT Major vault protein OS=Rattus norvegicus GN=Mvp PE=1 SV=4	sp|Q62667|MVP_RAT	0.00015
sp|Q63269|ITPR3_RAT Inositol 1,4,5-trisphosphate receptor type 3 OS=Rattus norvegicus GN=Itpr3 PE=1 SV=1	sp|Q63269|ITPR3_RAT (+1)	0.0001
Cluster of sp|Q64559-1|BACH_RAT Isoform 1 of Cytosolic acyl coenzyme A thioester hydrolase OS=Rattus norvegicus GN=Acot7 (sp|Q64559-1|BACH_RAT)	sp|Q64559-1|BACH_RAT	0.00012
sp|Q64559-1|BACH_RAT Isoform 1 of Cytosolic acyl coenzyme A thioester hydrolase OS=Rattus norvegicus GN=Acot7	sp|Q64559-1|BACH_RAT	0.00012
sp|Q66H28|TM206_RAT Transmembrane protein 206 OS=Rattus norvegicus GN=Tmem206 PE=1 SV=1	sp|Q66H28|TM206_RAT	0.00012
sp|Q66HR2|MARE1_RAT Microtubule-associated protein RP/EB family member 1 OS=Rattus norvegicus GN=Mapre1 PE=1 SV=3	sp|Q66HR2|MARE1_RAT	0.000075
sp|Q68FW7|SYTM_RAT Threonine--tRNA ligase, mitochondrial OS=Rattus norvegicus GN=Tars2 PE=2 SV=1	sp|Q68FW7|SYTM_RAT	0.00015
sp|Q6P7P5|BZW1_RAT Basic leucine zipper and W2 domain-containing protein 1 OS=Rattus norvegicus GN=Bzw1 PE=1 SV=1	sp|Q6P7P5|BZW1_RAT	0.0001
sp|Q6P9U8|EIF3H_RAT Eukaryotic translation initiation factor 3 subunit H OS=Rattus norvegicus GN=Eif3h PE=1 SV=1	sp|Q6P9U8|EIF3H_RAT (+1)	0.00012
sp|Q6RJR6-2|RTN3_RAT Isoform 2 of Reticulon-3 OS=Rattus norvegicus GN=Rtn3	sp|Q6RJR6-2|RTN3_RAT (+1)	0.000075
sp|Q8CGS5|RNZ2_RAT Zinc phosphodiesterase ELAC protein 2 OS=Rattus norvegicus GN=Elac2 PE=1 SV=1	sp|Q8CGS5|RNZ2_RAT (+1)	0.0001
sp|Q8CHM7|HACL1_RAT 2-hydroxyacyl-CoA lyase 1 OS=Rattus norvegicus GN=Hacl1 PE=1 SV=1	sp|Q8CHM7|HACL1_RAT	0.00017
sp|Q99MZ4|GGT7_RAT Gamma-glutamyltransferase 7 OS=Rattus norvegicus GN=Ggt7 PE=1 SV=2	sp|Q99MZ4|GGT7_RAT	0.00012
tr|A0A0G2JTX2|A0A0G2JTX2_RAT Protein Praf2 OS=Rattus norvegicus GN=Praf2 PE=1 SV=1	tr|A0A0G2JTX2|A0A0G2JTX2_RAT	0.0001
tr|A0A0G2JU25|A0A0G2JU25_RAT Polypeptide N-acetylgalactosaminyltransferase OS=Rattus norvegicus GN=Galnt2 PE=1 SV=1	tr|A0A0G2JU25|A0A0G2JU25_RAT	0.0001
tr|A0A0G2JWT6|A0A0G2JWT6_RAT Protein Pex16 OS=Rattus norvegicus GN=Pex16 PE=1 SV=1	tr|A0A0G2JWT6|A0A0G2JWT6_RAT	0.00012
tr|A0A0G2JY07|A0A0G2JY07_RAT DNA helicase OS=Rattus norvegicus GN=Mcm5 PE=1 SV=1	tr|A0A0G2JY07|A0A0G2JY07_RAT	0.000075
tr|A0A0G2JZH0|A0A0G2JZH0_RAT Protein Cab39 OS=Rattus norvegicus GN=Cab39 PE=1 SV=1	tr|A0A0G2JZH0|A0A0G2JZH0_RAT	0.00012
tr|A0A0G2K8Y7|A0A0G2K8Y7_RAT Protein Tmcc3 OS=Rattus norvegicus GN=Tmcc3 PE=1 SV=1	tr|A0A0G2K8Y7|A0A0G2K8Y7_RAT (+1)	0.0001
tr|A0A0G2KAE2|A0A0G2KAE2_RAT Protein Tusc3 OS=Rattus norvegicus GN=Tusc3 PE=1 SV=1	tr|A0A0G2KAE2|A0A0G2KAE2_RAT (+1)	0.00012
tr|A0A0G2KB21|A0A0G2KB21_RAT Protein Papss1 OS=Rattus norvegicus GN=Papss1 PE=1 SV=1	tr|A0A0G2KB21|A0A0G2KB21_RAT	0.00012
tr|A0A0H2UI20|A0A0H2UI20_RAT C-terminal-binding protein 1 OS=Rattus norvegicus GN=Ctbp1 PE=1 SV=1	tr|A0A0H2UI20|A0A0H2UI20_RAT (+1)	0.00012
tr|B1WBY1|B1WBY1_RAT Cul1 protein OS=Rattus norvegicus GN=Cul1 PE=1 SV=1	tr|B1WBY1|B1WBY1_RAT	0.00005
tr|B1WBY7|B1WBY7_RAT ER lipid raft associated 1 OS=Rattus norvegicus GN=Erlin1 PE=1 SV=1	tr|B1WBY7|B1WBY7_RAT	0.00017
tr|B2RYF6|B2RYF6_RAT Cleft lip and palate associated transmembrane protein 1 OS=Rattus norvegicus GN=Clptm1 PE=1 SV=1	tr|B2RYF6|B2RYF6_RAT	0.00005
tr|D3ZBX9|D3ZBX9_RAT Protein Ccdc92 OS=Rattus norvegicus GN=Ccdc92 PE=1 SV=1	tr|D3ZBX9|D3ZBX9_RAT	0.00015
tr|D3ZBZ6|D3ZBZ6_RAT Dispatched homolog 2 (Drosophila) (Predicted), isoform CRA_d OS=Rattus norvegicus GN=Disp2 PE=4 SV=1	tr|D3ZBZ6|D3ZBZ6_RAT	0.0001
tr|D3ZD83|D3ZD83_RAT Protein Mfsd10 OS=Rattus norvegicus GN=Mfsd10 PE=1 SV=1	tr|D3ZD83|D3ZD83_RAT	0.0001
tr|D3ZIP8|D3ZIP8_RAT Protein Endod1 OS=Rattus norvegicus GN=Endod1 PE=4 SV=2	tr|D3ZIP8|D3ZIP8_RAT	0.00012
tr|D3ZKG1|D3ZKG1_RAT Protein Mut OS=Rattus norvegicus GN=Mut PE=1 SV=2	tr|D3ZKG1|D3ZKG1_RAT	0.0001
tr|D3ZRF6|D3ZRF6_RAT Protein Pnpla6 OS=Rattus norvegicus GN=Pnpla6 PE=1 SV=2	tr|D3ZRF6|D3ZRF6_RAT (+1)	0.00017
tr|D3ZRN5|D3ZRN5_RAT Protein Trove2 OS=Rattus norvegicus GN=Trove2 PE=1 SV=1	tr|D3ZRN5|D3ZRN5_RAT	0.00012
Cluster of tr|D3ZUQ2|D3ZUQ2_RAT Protein Naa10 OS=Rattus norvegicus GN=Naa10 PE=1 SV=1 (tr|D3ZUQ2|D3ZUQ2_RAT)	tr|D3ZUQ2|D3ZUQ2_RAT [4]	0.00015

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZUQ2|D3ZUQ2_RAT Protein Naa10 OS=Rattus norvegicus GN=Naa10 PE=1 SV=1	tr|D3ZUQ2|D3ZUQ2_RAT	0.00012
sp|Q4V8K3|NAA11_RAT N-alpha-acetyltransferase 11 OS=Rattus norvegicus GN=Naa11 PE=2 SV=1	sp|Q4V8K3|NAA11_RAT (+2)	0.000075
tr|D3ZUY8|D3ZUY8_RAT Adaptor protein complex AP-2, alpha 1 subunit (Predicted) OS=Rattus norvegicus GN=Ap2a1 PE=1 SV=1	tr|D3ZUY8|D3ZUY8_RAT	0.0002
tr|D3ZVL1|D3ZVL1_RAT Protein Ctage5 OS=Rattus norvegicus GN=Ctage5 PE=1 SV=2	tr|D3ZVL1|D3ZVL1_RAT	0.00012
tr|D3ZWT2|D3ZWT2_RAT Protein Fitm2 OS=Rattus norvegicus GN=Fitm2 PE=1 SV=1	tr|D3ZWT2|D3ZWT2_RAT	0.00012
tr|D3ZZ21|D3ZZ21_RAT NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 6 (Predicted) OS=Rattus norvegicus GN=Ndufb6 PE=1 SV=1	tr|D3ZZ21|D3ZZ21_RAT	0.0001
tr|D4A833|D4A833_RAT Mitochondrial ribosomal protein S30 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrps30 PE=1 SV=1	tr|D4A833|D4A833_RAT	0.00012
tr|D4ABM5|D4ABM5_RAT Mitochondrial ribosomal protein S34 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrps34 PE=1 SV=1	tr|D4ABM5|D4ABM5_RAT	0.00015
tr|E9PTR4|E9PTR4_RAT Protein Ubap2l OS=Rattus norvegicus GN=Ubap2l PE=1 SV=2	tr|E9PTR4|E9PTR4_RAT	0.000075
tr|F1LT49|F1LT49_RAT Protein Lrrc47 OS=Rattus norvegicus GN=Lrrc47 PE=1 SV=2	tr|F1LT49|F1LT49_RAT	0.000075
tr|F1LV13|F1LV13_RAT Heterogeneous nuclear ribonucleoprotein M OS=Rattus norvegicus GN=Hnrnpm PE=1 SV=1	tr|F1LV13|F1LV13_RAT (+1)	0.00012
tr|F1M9V7|F1M9V7_RAT Protein Npepps OS=Rattus norvegicus GN=Npepps PE=1 SV=1	tr|F1M9V7|F1M9V7_RAT	0.00012
tr|F1MAA3|F1MAA3_RAT Protein LOC100909464 OS=Rattus norvegicus GN=LOC100909464 PE=1 SV=2	tr|F1MAA3|F1MAA3_RAT	0.0001
tr|F7DLY1|F7DLY1_RAT Eps8l2 protein OS=Rattus norvegicus GN=Eps8l2 PE=1 SV=2	tr|F7DLY1|F7DLY1_RAT	0.0001
tr|G3V784|G3V784_RAT ADP-dependent glucokinase, isoform CRA_a OS=Rattus norvegicus GN=Adpgk PE=1 SV=1	tr|G3V784|G3V784_RAT	0.000075
tr|G3V7W1|G3V7W1_RAT Programmed cell death 6 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Pdcd6 PE=1 SV=1	tr|G3V7W1|G3V7W1_RAT	0.0001
tr|G3V8T4|G3V8T4_RAT DNA damage-binding protein 1 OS=Rattus norvegicus GN=Ddb1 PE=1 SV=1	tr|G3V8T4|G3V8T4_RAT	0.00012
tr|G3V8T9|G3V8T9_RAT Apoptosis regulator BAX OS=Rattus norvegicus GN=Bax PE=1 SV=1	tr|G3V8T9|G3V8T9_RAT (+1)	0.00015
tr|Q4KLK7|Q4KLK7_RAT Nucleolar protein 5A OS=Rattus norvegicus GN=Nop56 PE=1 SV=1	tr|Q4KLK7|Q4KLK7_RAT	0.00015
tr|Q4KM57|Q4KM57_RAT LEM domain containing 2 OS=Rattus norvegicus GN=Lemd2 PE=1 SV=1	tr|Q4KM57|Q4KM57_RAT	0.00012
tr|Q566E4|Q566E4_RAT Heterogeneous nuclear ribonucleoprotein R OS=Rattus norvegicus GN=Hnrnpr PE=1 SV=1	tr|Q566E4|Q566E4_RAT	0.00017
tr|Q5XI21|Q5XI21_RAT Protein Tom1 OS=Rattus norvegicus GN=Tom1 PE=1 SV=1	tr|Q5XI21|Q5XI21_RAT	0.00012
tr|Q5XIM0|Q5XIM0_RAT BCS1-like (Yeast) OS=Rattus norvegicus GN=Bcs1l PE=1 SV=1	tr|Q5XIM0|Q5XIM0_RAT	0.00012
tr|Q6AYS3|Q6AYS3_RAT Protective protein for beta-galactosidase OS=Rattus norvegicus GN=Ctsa PE=1 SV=1	tr|Q6AYS3|Q6AYS3_RAT	0.0001
tr|Q6DGF2|Q6DGF2_RAT Enthoprotin OS=Rattus norvegicus GN=Clint1 PE=1 SV=1	tr|Q6DGF2|Q6DGF2_RAT	0.00012
tr|Q6P9V1|Q6P9V1_RAT Tetraspanin OS=Rattus norvegicus GN=Cd81 PE=1 SV=1	tr|Q6P9V1|Q6P9V1_RAT	0.000075
tr|Q9QX80|Q9QX80_RAT CArG-binding factor A OS=Rattus norvegicus GN=Hnrnpab PE=1 SV=1	tr|Q9QX80|Q9QX80_RAT (+1)	0.0001
Cluster of sp|P82808|GFPT1_RAT Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1 OS=Rattus norvegicus GN=Gfpt1 PE=1 SV=3 (sp|P82808|GFPT1_	sp|P82808|GFPT1_RAT [2]	0.000075
sp|P82808|GFPT1_RAT Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1 OS=Rattus norvegicus GN=Gfpt1 PE=1 SV=3	sp|P82808|GFPT1_RAT (+1)	0.000075
sp|Q62651|ECH1_RAT Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial OS=Rattus norvegicus GN=Ech1 PE=1 SV=2	sp|Q62651|ECH1_RAT	0.00012
tr|Q5U2V1|Q5U2V1_RAT FK506 binding protein 10 OS=Rattus norvegicus GN=Fkbp10 PE=1 SV=1	tr|Q5U2V1|Q5U2V1_RAT	0.000075
sp|D2XV59|GTPB1_RAT GTP-binding protein 1 OS=Rattus norvegicus GN=Gtpbp1 PE=1 SV=1	sp|D2XV59|GTPB1_RAT	0.000075
sp|D4ABY2|COPG2_RAT Coatomer subunit gamma-2 OS=Rattus norvegicus GN=Copg2 PE=3 SV=2	sp|D4ABY2|COPG2_RAT (+1)	0.00017
sp|D4AD37|IMPA3_RAT Inositol monophosphatase 3 OS=Rattus norvegicus GN=Impad1 PE=3 SV=1	sp|D4AD37|IMPA3_RAT (+1)	0.000075
sp|F1LP64-2|TRIPC_RAT Isoform 2 of E3 ubiquitin-protein ligase TRIP12 OS=Rattus norvegicus GN=Trip12	sp|F1LP64-2|TRIPC_RAT (+3)	0.0001
sp|O08839-2|BIN1_RAT Isoform AMPH2-2 of Myc box-dependent-interacting protein 1 OS=Rattus norvegicus GN=Bin1	sp|O08839-2|BIN1_RAT (+6)	0.00012
sp|O35263|PA1B3_RAT Platelet-activating factor acetylhydrolase IB subunit gamma OS=Rattus norvegicus GN=Pafah1b3 PE=2 SV=1	sp|O35263|PA1B3_RAT	0.000075
sp|O70595|ABCB6_RAT ATP-binding cassette sub-family B member 6, mitochondrial OS=Rattus norvegicus GN=Abcb6 PE=2 SV=1	sp|O70595|ABCB6_RAT	0.0001
sp|P00173-2|CYB5_RAT Isoform Short of Cytochrome b5 OS=Rattus norvegicus GN=Cyb5a	sp|P00173-2|CYB5_RAT (+1)	0.0001
sp|P04961|PCNA_RAT Proliferating cell nuclear antigen OS=Rattus norvegicus GN=Pcna PE=1 SV=1	sp|P04961|PCNA_RAT	0.00005
sp|P07335|KCRB_RAT Creatine kinase B-type OS=Rattus norvegicus GN=Ckb PE=1 SV=2	sp|P07335|KCRB_RAT	0.000075
sp|P08592-2|A4_RAT Isoform APP695 of Amyloid beta A4 protein OS=Rattus norvegicus GN=App	sp|P08592-2|A4_RAT (+1)	0.0001
sp|P11960|ODBA_RAT 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial (Fragment) OS=Rattus norvegicus GN=Bckdha PE=1 SV=1	sp|P11960|ODBA_RAT (+1)	0.0001
sp|P12368|KAP2_RAT cAMP-dependent protein kinase type II-alpha regulatory subunit OS=Rattus norvegicus GN=Prkar2a PE=1 SV=3	sp|P12368|KAP2_RAT (+1)	0.00012
sp|P18266|GSK3B_RAT Glycogen synthase kinase-3 beta OS=Rattus norvegicus GN=Gsk3b PE=1 SV=1	sp|P18266|GSK3B_RAT (+1)	0.0001
sp|P18298|METK2_RAT S-adenosylmethionine synthase isoform type-2 OS=Rattus norvegicus GN=Mat2a PE=1 SV=1	sp|P18298|METK2_RAT (+1)	0.0001
sp|P25113|PGAM1_RAT Phosphoglycerate mutase 1 OS=Rattus norvegicus GN=Pgam1 PE=1 SV=4	sp|P25113|PGAM1_RAT	0.0001
sp|P33124|ACSL6_RAT Long-chain-fatty-acid--CoA ligase 6 OS=Rattus norvegicus GN=Acsl6 PE=1 SV=1	sp|P33124|ACSL6_RAT (+1)	0.00015
sp|P38062|MAP2_RAT Methionine aminopeptidase 2 OS=Rattus norvegicus GN=Metap2 PE=1 SV=2	sp|P38062|MAP2_RAT	0.00012
sp|P40615|DKC1_RAT H/ACA ribonucleoprotein complex subunit 4 OS=Rattus norvegicus GN=Dkc1 PE=1 SV=4	sp|P40615|DKC1_RAT	0.00012
sp|P48508|GSH0_RAT Glutamate--cysteine ligase regulatory subunit OS=Rattus norvegicus GN=Gclm PE=1 SV=1	sp|P48508|GSH0_RAT	0.0001
sp|P50399|GDIB_RAT Rab GDP dissociation inhibitor beta OS=Rattus norvegicus GN=Gdi2 PE=1 SV=2	sp|P50399|GDIB_RAT	0.00015
sp|P62628|DLRB1_RAT Dynein light chain roadblock-type 1 OS=Rattus norvegicus GN=Dynlrb1 PE=1 SV=3	sp|P62628|DLRB1_RAT	0.0001
Cluster of sp|P70618|MK14_RAT Mitogen-activated protein kinase 14 OS=Rattus norvegicus GN=Mapk14 PE=1 SV=3 (sp|P70618|MK14_RAT)	sp|P70618|MK14_RAT [3]	0.00012
sp|P70618|MK14_RAT Mitogen-activated protein kinase 14 OS=Rattus norvegicus GN=Mapk14 PE=1 SV=3	sp|P70618|MK14_RAT (+1)	0.0001
sp|Q63538|MK12_RAT Mitogen-activated protein kinase 12 OS=Rattus norvegicus GN=Mapk12 PE=1 SV=1	sp|Q63538|MK12_RAT	0.00005
sp|P83888|TBG1_RAT Tubulin gamma-1 chain OS=Rattus norvegicus GN=Tubg1 PE=2 SV=1	sp|P83888|TBG1_RAT	0.00012
sp|P97878|EXOC5_RAT Exocyst complex component 5 OS=Rattus norvegicus GN=Exoc5 PE=1 SV=1	sp|P97878|EXOC5_RAT	0.00012
sp|Q02356|AMPD2_RAT AMP deaminase 2 OS=Rattus norvegicus GN=Ampd2 PE=1 SV=2	sp|Q02356|AMPD2_RAT (+1)	0.00012
sp|Q1H5H1|SELT_RAT Selenoprotein T OS=Rattus norvegicus GN=Selt PE=2 SV=2	sp|Q1H5H1|SELT_RAT (+1)	0.0001
sp|Q1HAQ0|PCAT1_RAT Lysophosphatidylcholine acyltransferase 1 OS=Rattus norvegicus GN=Lpcat1 PE=2 SV=2	sp|Q1HAQ0|PCAT1_RAT	0.00012
sp|Q3ZU82|GOGA5_RAT Golgin subfamily A member 5 OS=Rattus norvegicus GN=Golga5 PE=1 SV=1	sp|Q3ZU82|GOGA5_RAT (+1)	0.0001
sp|Q5FVL2|EMC8_RAT ER membrane protein complex subunit 8 OS=Rattus norvegicus GN=Emc8 PE=2 SV=1	sp|Q5FVL2|EMC8_RAT	0.0001
sp|Q5GFD9|IMPCT_RAT Protein IMPACT OS=Rattus norvegicus GN=Impact PE=1 SV=1	sp|Q5GFD9|IMPCT_RAT	0.0001
sp|Q5HZE4|MTNA_RAT Methylthioribose-1-phosphate isomerase OS=Rattus norvegicus GN=Mri1 PE=1 SV=1	sp|Q5HZE4|MTNA_RAT	0.000075

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q5U211|SNX3_RAT Sorting nexin-3 OS=Rattus norvegicus GN=Snx3 PE=1 SV=1	sp|Q5U211|SNX3_RAT	0.00012
sp|Q5U2N0|PYRG2_RAT CTP synthase 2 OS=Rattus norvegicus GN=Ctps2 PE=1 SV=1	sp|Q5U2N0|PYRG2_RAT	0.0001
sp|Q62639|RHEB_RAT GTP-binding protein Rheb OS=Rattus norvegicus GN=Rheb PE=1 SV=1	sp|Q62639|RHEB_RAT	0.0001
sp|Q63692|CDC37_RAT Hsp90 co-chaperone Cdc37 OS=Rattus norvegicus GN=Cdc37 PE=1 SV=2	sp|Q63692|CDC37_RAT	0.00005
sp|Q641W4|RFC2_RAT Replication factor C subunit 2 OS=Rattus norvegicus GN=Rfc2 PE=2 SV=1	sp|Q641W4|RFC2_RAT	0.00012
sp|Q642G4|PEX14_RAT Peroxisomal membrane protein PEX14 OS=Rattus norvegicus GN=Pex14 PE=1 SV=1	sp|Q642G4|PEX14_RAT	0.0001
sp|Q66H47|RM24_RAT 39S ribosomal protein L24, mitochondrial OS=Rattus norvegicus GN=Mrpl24 PE=2 SV=1	sp|Q66H47|RM24_RAT	0.00012
sp|Q80X08|FAM21_RAT WASH complex subunit FAM21 OS=Rattus norvegicus GN=Fam21 PE=1 SV=1	sp|Q80X08|FAM21_RAT (+1)	0.0001
sp|Q8VID1|DHRS4_RAT Dehydrogenase/reductase SDR family member 4 OS=Rattus norvegicus GN=Dhrs4 PE=2 SV=2	sp|Q8VID1|DHRS4_RAT	0.000075
sp|Q99PD4|ARC1A_RAT Actin-related protein 2/3 complex subunit 1A OS=Rattus norvegicus GN=Arpc1a PE=2 SV=1	sp|Q99PD4|ARC1A_RAT	0.00015
sp|Q9EPY0|CARD9_RAT Caspase recruitment domain-containing protein 9 OS=Rattus norvegicus GN=Card9 PE=1 SV=1	sp|Q9EPY0|CARD9_RAT	0.000075
sp|Q9ES40|PRAF3_RAT PRA1 family protein 3 OS=Rattus norvegicus GN=Arl6ip5 PE=1 SV=1	sp|Q9ES40|PRAF3_RAT (+1)	0.000075
sp|Q9JHL4-2|DBNL_RAT Isoform 2 of Drebrin-like protein OS=Rattus norvegicus GN=Dbnl	sp|Q9JHL4-2|DBNL_RAT (+2)	0.000075
sp|Q9JI85|NUCB2_RAT Nucleobindin-2 OS=Rattus norvegicus GN=Nucb2 PE=1 SV=1	sp|Q9JI85|NUCB2_RAT (+1)	0.0001
sp|Q9QVC8|FKBP4_RAT Peptidyl-prolyl cis-trans isomerase FKBP4 OS=Rattus norvegicus GN=Fkbp4 PE=1 SV=3	sp|Q9QVC8|FKBP4_RAT	0.000075
sp|Q9QZ86|NOP58_RAT Nucleolar protein 58 OS=Rattus norvegicus GN=Nop58 PE=1 SV=1	sp|Q9QZ86|NOP58_RAT	0.0001
sp|Q9WU34-2|SEPT3_RAT Isoform 2 of Neuronal-specific septin-3 OS=Rattus norvegicus GN=Sept3	sp|Q9WU34-2|SEPT3_RAT (+3)	0.0001
tr|A0A096MJM1|A0A096MJM1_RAT Protein Rhog (Fragment) OS=Rattus norvegicus GN=Rhog PE=1 SV=5	tr|A0A096MJM1|A0A096MJM1_RAT (+2)	0.0001
Cluster of tr|A0A0G2JT63|A0A0G2JT63_RAT Protein Cyfip2 OS=Rattus norvegicus GN=Cyfip2 PE=1 SV=1 (tr|A0A0G2JT63|A0A0G2JT63_RAT)	tr|A0A0G2JT63|A0A0G2JT63_RAT	0.00022
tr|A0A0G2JT63|A0A0G2JT63_RAT Protein Cyfip2 OS=Rattus norvegicus GN=Cyfip2 PE=1 SV=1	tr|A0A0G2JT63|A0A0G2JT63_RAT	0.00022
tr|A0A0G2JU77|A0A0G2JU77_RAT Eukaryotic translation initiation factor 3 subunit K OS=Rattus norvegicus GN=Eif3k PE=1 SV=1	tr|A0A0G2JU77|A0A0G2JU77_RAT	0.000075
tr|A0A0G2JY68|A0A0G2JY68_RAT Protein NEWGENE_1359295 OS=Rattus norvegicus GN=NEWGENE_1359295 PE=1 SV=1	tr|A0A0G2JY68|A0A0G2JY68_RAT (+1)	0.000075
tr|A0A0G2JYD3|A0A0G2JYD3_RAT Protein Uggt2 OS=Rattus norvegicus GN=Uggt2 PE=1 SV=1	tr|A0A0G2JYD3|A0A0G2JYD3_RAT	0.0001
tr|A0A0G2K2Z0|A0A0G2K2Z0_RAT Protein Eml4 OS=Rattus norvegicus GN=Eml4 PE=1 SV=1	tr|A0A0G2K2Z0|A0A0G2K2Z0_RAT (+1)	0.00012
tr|A0A0G2K435|A0A0G2K435_RAT Protein Dnajc7 OS=Rattus norvegicus GN=Dnajc7 PE=1 SV=1	tr|A0A0G2K435|A0A0G2K435_RAT	0.0001
tr|B0BNF6|B0BNF6_RAT Membrane-associated ring finger (C3HC4) 5 OS=Rattus norvegicus GN=March5 PE=1 SV=1	tr|B0BNF6|B0BNF6_RAT	0.00012
tr|B1H2A6|B1H2A6_RAT Fxr2 protein OS=Rattus norvegicus GN=Fxr2 PE=1 SV=1	tr|B1H2A6|B1H2A6_RAT	0.00015
tr|D3ZA84|D3ZA84_RAT Protein Tln2 OS=Rattus norvegicus GN=Tln2 PE=1 SV=3	tr|D3ZA84|D3ZA84_RAT (+1)	0.00005
tr|D3ZFJ6|D3ZFJ6_RAT Lactamase, beta (Predicted) OS=Rattus norvegicus GN=Lactb PE=1 SV=1	tr|D3ZFJ6|D3ZFJ6_RAT	0.000075
tr|D3ZTW9|D3ZTW9_RAT Endonuclease G-like 1 (Predicted), isoform CRA_d OS=Rattus norvegicus GN=Exog PE=1 SV=1	tr|D3ZTW9|D3ZTW9_RAT	0.000075
tr|D3ZUM2|D3ZUM2_RAT Protein Sarm1 OS=Rattus norvegicus GN=Sarm1 PE=1 SV=1	tr|D3ZUM2|D3ZUM2_RAT	0.0001
tr|D3ZZV1|D3ZZV1_RAT Mitochondrial import inner membrane translocase subunit TIM16 OS=Rattus norvegicus GN=Pam16 PE=1 SV=1	tr|D3ZZV1|D3ZZV1_RAT	0.0001
tr|D4A0E8|D4A0E8_RAT Protein arginine N-methyltransferase 5 OS=Rattus norvegicus GN=Prmt5 PE=1 SV=1	tr|D4A0E8|D4A0E8_RAT	0.0001
tr|D4A104|D4A104_RAT Mitochondrial ribosomal protein L45 (Predicted) OS=Rattus norvegicus GN=Mrpl45 PE=1 SV=1	tr|D4A104|D4A104_RAT	0.0001
tr|D4A565|D4A565_RAT NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 5 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ndufb5 PE=1 SV=1	tr|D4A565|D4A565_RAT	0.0001
tr|D4ACG2|D4ACG2_RAT IlvB (Bacterial acetolactate synthase)-like (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ilvbl PE=1 SV=1	tr|D4ACG2|D4ACG2_RAT	0.0001
tr|E9PT51|E9PT51_RAT DNA-directed polymerase delta interacting protein 2 OS=Rattus norvegicus GN=Poldip2 PE=1 SV=3	tr|E9PT51|E9PT51_RAT	0.000075
tr|E9PT85|E9PT85_RAT Protein Xrcc6 OS=Rattus norvegicus GN=Xrcc6 PE=1 SV=1	tr|E9PT85|E9PT85_RAT (+1)	0.000025
tr|E9PTI6|E9PTI6_RAT Protein Raly OS=Rattus norvegicus GN=Raly PE=1 SV=2	tr|E9PTI6|E9PTI6_RAT (+1)	0.00012
Cluster of tr|F1LRK0|F1LRK0_RAT Clathrin coat assembly protein AP180 OS=Rattus norvegicus GN=Snap91 PE=1 SV=3 (tr|F1LRK0|F1LRK0_RAT)	tr|F1LRK0|F1LRK0_RAT	0.00012
tr|F1LRK0|F1LRK0_RAT Clathrin coat assembly protein AP180 OS=Rattus norvegicus GN=Snap91 PE=1 SV=3	tr|F1LRK0|F1LRK0_RAT	0.00012
tr|F1LU48|F1LU48_RAT Protein Ergic1 OS=Rattus norvegicus GN=Ergic1 PE=1 SV=2	tr|F1LU48|F1LU48_RAT	0.000075
tr|F1LZC5|F1LZC5_RAT Protein Ndufa13 OS=Rattus norvegicus GN=Ndufa13 PE=4 SV=2	tr|F1LZC5|F1LZC5_RAT	0.0001
tr|F1M0C4|F1M0C4_RAT Protein Kctd14 OS=Rattus norvegicus GN=Kctd14 PE=4 SV=2	tr|F1M0C4|F1M0C4_RAT	0.0001
tr|F1M1H0|F1M1H0_RAT Protein Dera OS=Rattus norvegicus GN=Dera PE=1 SV=3	tr|F1M1H0|F1M1H0_RAT	0.00012
tr|F1M4I4|F1M4I4_RAT Protein Vps51 OS=Rattus norvegicus GN=Vps51 PE=1 SV=2	tr|F1M4I4|F1M4I4_RAT	0.00012
Cluster of tr|F1M7H3|F1M7H3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=2 (tr|F1M7H3|F1M7H3_RAT)	tr|F1M7H3|F1M7H3_RAT	0.000075
tr|F1M7H3|F1M7H3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=2	tr|F1M7H3|F1M7H3_RAT	0.000075
tr|F1M853|F1M853_RAT Protein Rrbp1 OS=Rattus norvegicus GN=Rrbp1 PE=1 SV=3	tr|F1M853|F1M853_RAT	0.0001
tr|F1M9Q3|F1M9Q3_RAT Protein Ltn1 OS=Rattus norvegicus GN=Ltn1 PE=1 SV=2	tr|F1M9Q3|F1M9Q3_RAT	0.0001
tr|F7EVX2|F7EVX2_RAT Translation initiation factor eIF-2B subunit beta OS=Rattus norvegicus GN=Eif2b2 PE=1 SV=1	tr|F7EVX2|F7EVX2_RAT	0.00012
tr|G3V6K6|G3V6K6_RAT Epidermal growth factor receptor, isoform CRA_b OS=Rattus norvegicus GN=Egfr PE=1 SV=1	tr|G3V6K6|G3V6K6_RAT	0.00005
tr|G3V7I7|G3V7I7_RAT Protein Lrrc40 OS=Rattus norvegicus GN=Lrrc40 PE=1 SV=3	tr|G3V7I7|G3V7I7_RAT	0.0001
tr|G3V7K5|G3V7K5_RAT Protein Npc1 OS=Rattus norvegicus GN=Npc1 PE=1 SV=1	tr|G3V7K5|G3V7K5_RAT	0.000075
tr|M0R6E0|M0R6E0_RAT Phospholipid-transporting ATPase OS=Rattus norvegicus GN=Atp9a PE=1 SV=2	tr|M0R6E0|M0R6E0_RAT	0.00005
tr|M0R907|M0R907_RAT Protein Snrpd3 OS=Rattus norvegicus GN=Snrpd3 PE=1 SV=1	tr|M0R907|M0R907_RAT	0.0001
tr|M0RA08|M0RA08_RAT Perilipin OS=Rattus norvegicus GN=Plin3 PE=1 SV=1	tr|M0RA08|M0RA08_RAT	0.000075
tr|Q3MHT2|Q3MHT2_RAT Cysteine desulfurase, mitochondrial OS=Rattus norvegicus GN=Nfs1 PE=1 SV=1	tr|Q3MHT2|Q3MHT2_RAT	0.0001
tr|Q4V8Q2|Q4V8Q2_RAT Protein Spint1 OS=Rattus norvegicus GN=Spint1 PE=2 SV=1	tr|Q4V8Q2|Q4V8Q2_RAT	0.0001
tr|Q5FVF3|Q5FVF3_RAT Golgi associated, gamma adaptin ear containing, ARF binding protein 1 OS=Rattus norvegicus GN=Gga1 PE=1 SV=1	tr|Q5FVF3|Q5FVF3_RAT	0.00012
tr|Q5M949|Q5M949_RAT Nipsnap homolog 3A (C. elegans) OS=Rattus norvegicus GN=Nipsnap3b PE=1 SV=1	tr|Q5M949|Q5M949_RAT	0.00012
tr|Q5RK08|Q5RK08_RAT Glioblastoma amplified sequence OS=Rattus norvegicus GN=Gbas PE=1 SV=1	tr|Q5RK08|Q5RK08_RAT	0.000075
tr|Q5U2R9|Q5U2R9_RAT Protein Scfd2 OS=Rattus norvegicus GN=Scfd2 PE=1 SV=1	tr|Q5U2R9|Q5U2R9_RAT	0.00012
tr|Q5U362|Q5U362_RAT Annexin OS=Rattus norvegicus GN=Anxa4 PE=1 SV=1	tr|Q5U362|Q5U362_RAT	0.00012
tr|Q5XIM7|Q5XIM7_RAT Lysine--tRNA ligase OS=Rattus norvegicus GN=Kars PE=1 SV=1	tr|Q5XIM7|Q5XIM7_RAT	0.000075

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|Q5XIP2|Q5XIP2_RAT Phosphatidylinositol glycan, class K OS=Rattus norvegicus GN=Pigk PE=1 SV=1	tr|Q5XIP2|Q5XIP2_RAT	0.0001
tr|Q6AY48|Q6AY48_RAT Poly(RC) binding protein 3 OS=Rattus norvegicus GN=Pcbp3 PE=1 SV=1	tr|Q6AY48|Q6AY48_RAT	0.00022
tr|Q6TXG7|Q6TXG7_RAT Serine hydroxymethyltransferase OS=Rattus norvegicus GN=Shmt1 PE=1 SV=1	tr|Q6TXG7|Q6TXG7_RAT	0.00012
tr|Q76GL9|Q76GL9_RAT Amino acid transporter OS=Rattus norvegicus GN=Slc1a4 PE=1 SV=1	tr|Q76GL9|Q76GL9_RAT	0.0001
tr|Q8SEZ0|Q8SEZ0_RAT NADH-ubiquinone oxidoreductase chain 5 OS=Rattus norvegicus GN=Mt-nd5 PE=1 SV=1	tr|Q8SEZ0|Q8SEZ0_RAT	0.000075
sp|Q5XIB4|UFSP2_RAT Ufm1-specific protease 2 OS=Rattus norvegicus GN=Ufsp2 PE=2 SV=1	sp|Q5XIB4|UFSP2_RAT	0.000075
tr|A0A0G2JVW5|A0A0G2JVW5_RAT E3 ubiquitin-protein ligase HUWE1 OS=Rattus norvegicus GN=Huwe1 PE=1 SV=1	tr|A0A0G2JVW5|A0A0G2JVW5_RAT	0.0001
tr|D4A017|D4A017_RAT Protein Tmem87a OS=Rattus norvegicus GN=Tmem87a PE=1 SV=3	tr|D4A017|D4A017_RAT	0.000075
tr|F7EUU4|F7EUU4_RAT Protein Cops5 OS=Rattus norvegicus GN=Cops5 PE=1 SV=1	tr|F7EUU4|F7EUU4_RAT	0.000075
tr|G3V624|G3V624_RAT Coronin OS=Rattus norvegicus GN=Coro1c PE=1 SV=1	tr|G3V624|G3V624_RAT	0.0001
sp|Q6P6Q9|MICU1_RAT Calcium uptake protein 1, mitochondrial OS=Rattus norvegicus GN=Micu1 PE=2 SV=1	sp|Q6P6Q9|MICU1_RAT (+2)	0.0001
sp|Q9WUD9-2|SRC_RAT Isoform 2 of Proto-oncogene tyrosine-protein kinase Src OS=Rattus norvegicus GN=Src	sp|Q9WUD9-2|SRC_RAT (+1)	0.000075
sp|Q9Z272|GIT1_RAT ARF GTPase-activating protein GIT1 OS=Rattus norvegicus GN=Git1 PE=1 SV=1	sp|Q9Z272|GIT1_RAT (+1)	0.00005
Cluster of sp|Q64548-2|RTN1_RAT Isoform RTN1-S of Reticulon-1 OS=Rattus norvegicus GN=Rtn1 (sp|Q64548-2|RTN1_RAT)	sp|Q64548-2|RTN1_RAT [2]	0.0001
sp|Q64548-2|RTN1_RAT Isoform RTN1-S of Reticulon-1 OS=Rattus norvegicus GN=Rtn1	sp|Q64548-2|RTN1_RAT	0.000075
sp|Q64548|RTN1_RAT Reticulon-1 OS=Rattus norvegicus GN=Rtn1 PE=1 SV=1	sp|Q64548|RTN1_RAT	0.000075
tr|Q6PDV8|Q6PDV8_RAT Protein LOC100360057 OS=Rattus norvegicus GN=LOC100360057 PE=2 SV=1	tr|Q6PDV8|Q6PDV8_RAT	0.00017
Cluster of sp|Q9QZ81|AGO2_RAT Protein argonaute-2 OS=Rattus norvegicus GN=Ago2 PE=2 SV=2 (sp|Q9QZ81|AGO2_RAT)	sp|Q9QZ81|AGO2_RAT [2]	0.0001
sp|Q9QZ81|AGO2_RAT Protein argonaute-2 OS=Rattus norvegicus GN=Ago2 PE=2 SV=2	sp|Q9QZ81|AGO2_RAT (+1)	0.0001
sp|Q6P7B9|ACOD2_RAT Acyl-CoA desaturase 2 OS=Rattus norvegicus GN=Scd2 PE=2 SV=1	sp|Q6P7B9|ACOD2_RAT (+1)	0.00005
Cluster of sp|Q4KLN7|ARFG3_RAT ADP-ribosylation factor GTPase-activating protein 3 OS=Rattus norvegicus GN=Arfgap3 PE=1 SV=1 (sp|Q4KLN7|ARFG3_RAT)	sp|Q4KLN7|ARFG3_RAT [2]	0.000075
sp|Q4KLN7|ARFG3_RAT ADP-ribosylation factor GTPase-activating protein 3 OS=Rattus norvegicus GN=Arfgap3 PE=1 SV=1	sp|Q4KLN7|ARFG3_RAT (+1)	0.000075
tr|D4A054|D4A054_RAT Protein Ranbp2 OS=Rattus norvegicus GN=Ranbp2 PE=1 SV=2	tr|D4A054|D4A054_RAT (+1)	0.0001
Cluster of sp|Q6IFU8|K1C17_RAT Keratin, type I cytoskeletal 17 OS=Rattus norvegicus GN=Krt17 PE=1 SV=1 (sp|Q6IFU8|K1C17_RAT)	sp|Q6IFU8|K1C17_RAT	0.00005
sp|Q6IFV3|K1C15_RAT Keratin, type I cytoskeletal 15 OS=Rattus norvegicus GN=Krt15 PE=1 SV=1	sp|Q6IFV3|K1C15_RAT	0.00005
sp|P62161|CALM_RAT Calmodulin OS=Rattus norvegicus GN=Calm1 PE=1 SV=2	sp|P62161|CALM_RAT	0.000075
Cluster of sp|P62902|RL31_RAT 60S ribosomal protein L31 OS=Rattus norvegicus GN=Rpl31 PE=2 SV=1 (sp|P62902|RL31_RAT)	sp|P62902|RL31_RAT [5]	0.0001
sp|P62902|RL31_RAT 60S ribosomal protein L31 OS=Rattus norvegicus GN=Rpl31 PE=2 SV=1	sp|P62902|RL31_RAT (+4)	0.0001
tr|E9PTB2|E9PTB2_RAT Transcription elongation factor SPT5 OS=Rattus norvegicus GN=Supt5h PE=1 SV=2	tr|E9PTB2|E9PTB2_RAT	0.00005
sp|P11951|CX6C2_RAT Cytochrome c oxidase subunit 6C-2 OS=Rattus norvegicus GN=Cox6c2 PE=1 SV=3	sp|P11951|CX6C2_RAT	0.000075
Cluster of sp|P84100|RL19_RAT 60S ribosomal protein L19 OS=Rattus norvegicus GN=Rpl19 PE=1 SV=1 (sp|P84100|RL19_RAT)	sp|P84100|RL19_RAT	0.0001
sp|P84100|RL19_RAT 60S ribosomal protein L19 OS=Rattus norvegicus GN=Rpl19 PE=1 SV=1	sp|P84100|RL19_RAT	0.0001
Cluster of tr|A0A0A0MXX0|A0A0A0MXX0_RAT CD2-associated protein OS=Rattus norvegicus GN=Cd2ap PE=1 SV=2 (tr|A0A0A0MXX0|A0A0A0MXX0_RAT)	tr|A0A0A0MXX0|A0A0A0MXX0_RAT	0.0001
tr|A0A0A0MXX0|A0A0A0MXX0_RAT CD2-associated protein OS=Rattus norvegicus GN=Cd2ap PE=1 SV=2	tr|A0A0A0MXX0|A0A0A0MXX0_RAT	0.0001
Cluster of sp|P70705|ATP7A_RAT Copper-transporting ATPase 1 OS=Rattus norvegicus GN=Atp7a PE=1 SV=1 (sp|P70705|ATP7A_RAT)	sp|P70705|ATP7A_RAT	0.0001
sp|P70705|ATP7A_RAT Copper-transporting ATPase 1 OS=Rattus norvegicus GN=Atp7a PE=1 SV=1	sp|P70705|ATP7A_RAT	0.0001
Cluster of tr|E9PU01|E9PU01_RAT Protein Chd4 OS=Rattus norvegicus GN=Chd4 PE=1 SV=3 (tr|E9PU01|E9PU01_RAT)	tr|E9PU01|E9PU01_RAT	0.00005
tr|E9PU01|E9PU01_RAT Protein Chd4 OS=Rattus norvegicus GN=Chd4 PE=1 SV=3	tr|E9PU01|E9PU01_RAT	0.00005
sp|B2GV38|UBL4A_RAT Ubiquitin-like protein 4A OS=Rattus norvegicus GN=Ubl4a PE=2 SV=1	sp|B2GV38|UBL4A_RAT	0.00005
sp|O70257|STX7_RAT Syntaxin-7 OS=Rattus norvegicus GN=Stx7 PE=1 SV=4	sp|O70257|STX7_RAT (+2)	0.000025
sp|O88600|HSP74_RAT Heat shock 70 kDa protein 4 OS=Rattus norvegicus GN=Hspa4 PE=1 SV=1	sp|O88600|HSP74_RAT (+1)	0.0001
sp|O88813|ACSL5_RAT Long-chain-fatty-acid--CoA ligase 5 OS=Rattus norvegicus GN=Acsl5 PE=1 SV=1	sp|O88813|ACSL5_RAT	0.00017
sp|P13437|THIM_RAT 3-ketoacyl-CoA thiolase, mitochondrial OS=Rattus norvegicus GN=Acaa2 PE=2 SV=1	sp|P13437|THIM_RAT (+2)	0.000025
sp|P41542|USO1_RAT General vesicular transport factor p115 OS=Rattus norvegicus GN=Uso1 PE=1 SV=1	sp|P41542|USO1_RAT	0.0001
sp|P52590|NU107_RAT Nuclear pore complex protein Nup107 OS=Rattus norvegicus GN=Nup107 PE=1 SV=1	sp|P52590|NU107_RAT (+1)	0.000075
sp|P60901|PSA6_RAT Proteasome subunit alpha type-6 OS=Rattus norvegicus GN=Psma6 PE=1 SV=1	sp|P60901|PSA6_RAT	0.000075
sp|P62914|RL11_RAT 60S ribosomal protein L11 OS=Rattus norvegicus GN=Rpl11 PE=1 SV=2	sp|P62914|RL11_RAT (+1)	0.0001
sp|P84817|FIS1_RAT Mitochondrial fission 1 protein OS=Rattus norvegicus GN=Fis1 PE=1 SV=1	sp|P84817|FIS1_RAT	0.000075
sp|Q00981|UCHL1_RAT Ubiquitin carboxyl-terminal hydrolase isozyme L1 OS=Rattus norvegicus GN=Uchl1 PE=1 SV=2	sp|Q00981|UCHL1_RAT	0.000075
sp|Q3T1I4|PRRC1_RAT Protein PRRC1 OS=Rattus norvegicus GN=Prrc1 PE=2 SV=1	sp|Q3T1I4|PRRC1_RAT (+1)	0.000025
sp|Q3T1K5|CAZA2_RAT F-actin-capping protein subunit alpha-2 OS=Rattus norvegicus GN=Capza2 PE=1 SV=1	sp|Q3T1K5|CAZA2_RAT	0.000075
sp|Q5EBA1|SUV3_RAT ATP-dependent RNA helicase SUPV3L1, mitochondrial OS=Rattus norvegicus GN=Supv3l1 PE=2 SV=1	sp|Q5EBA1|SUV3_RAT	0.0001
sp|Q5FWT1|FA98A_RAT Protein FAM98A OS=Rattus norvegicus GN=Fam98a PE=2 SV=1	sp|Q5FWT1|FA98A_RAT	0.00012
sp|Q5FWY5|AIP_RAT AH receptor-interacting protein OS=Rattus norvegicus GN=Aip PE=1 SV=1	sp|Q5FWY5|AIP_RAT	0.000075
sp|Q5XIU9|PGRC2_RAT Membrane-associated progesterone receptor component 2 OS=Rattus norvegicus GN=Pgrmc2 PE=1 SV=1	sp|Q5XIU9|PGRC2_RAT	0.00012
sp|Q63028-2|ADDA_RAT Isoform 2 of Alpha-adducin OS=Rattus norvegicus GN=Add1	sp|Q63028-2|ADDA_RAT (+2)	0.0001
sp|Q63525|NUDC_RAT Nuclear migration protein nudC OS=Rattus norvegicus GN=Nudc PE=1 SV=1	sp|Q63525|NUDC_RAT (+1)	0.0001
sp|Q68FW4|STX18_RAT Syntaxin-18 OS=Rattus norvegicus GN=Stx18 PE=2 SV=1	sp|Q68FW4|STX18_RAT	0.0001
sp|Q68FW9|CSN3_RAT COP9 signalosome complex subunit 3 OS=Rattus norvegicus GN=Cops3 PE=1 SV=1	sp|Q68FW9|CSN3_RAT	0.000075
sp|Q6QBQ4|PLS3_RAT Phospholipid scramblase 3 OS=Rattus norvegicus GN=Plscr3 PE=2 SV=1	sp|Q6QBQ4|PLS3_RAT	0.0001
sp|Q80W92|VAC14_RAT Protein VAC14 homolog OS=Rattus norvegicus GN=Vac14 PE=1 SV=1	sp|Q80W92|VAC14_RAT	0.000075
sp|Q80WL2|BYST_RAT Bystin OS=Rattus norvegicus GN=Bysl PE=1 SV=3	sp|Q80WL2|BYST_RAT (+1)	0.0001
sp|Q8CG09-2|MRP1_RAT Isoform 2 of Multidrug resistance-associated protein 1 OS=Rattus norvegicus GN=Abcc1	sp|Q8CG09-2|MRP1_RAT (+1)	0.00005
sp|Q8CGU6|NICA_RAT Nicastrin OS=Rattus norvegicus GN=Ncstn PE=1 SV=1	sp|Q8CGU6|NICA_RAT	0.0001
sp|Q8VHK0|ACOT8_RAT Acyl-coenzyme A thioesterase 8 OS=Rattus norvegicus GN=Acot8 PE=1 SV=1	sp|Q8VHK0|ACOT8_RAT	0.00012

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q99068|AMRP_RAT Alpha-2-macroglobulin receptor-associated protein OS=Rattus norvegicus GN=Lrpap1 PE=1 SV=2	sp|Q99068|AMRP_RAT	0.0001
Cluster of sp|Q9ERE4|GOLP3_RAT Golgi phosphoprotein 3 OS=Rattus norvegicus GN=Golph3 PE=1 SV=1 (sp|Q9ERE4|GOLP3_RAT)	sp|Q9ERE4|GOLP3_RAT [2]	0.0001
sp|Q9ERE4|GOLP3_RAT Golgi phosphoprotein 3 OS=Rattus norvegicus GN=Golph3 PE=1 SV=1	sp|Q9ERE4|GOLP3_RAT (+1)	0.0001
sp|Q9JJW3|USMG5_RAT Up-regulated during skeletal muscle growth protein 5 OS=Rattus norvegicus GN=Usmg5 PE=1 SV=1	sp|Q9JJW3|USMG5_RAT	0.0001
sp|Q9R0T3|DNJC3_RAT DnaJ homolog subfamily C member 3 OS=Rattus norvegicus GN=Dnajc3 PE=1 SV=3	sp|Q9R0T3|DNJC3_RAT	0.0001
sp|Q9WV63-2|KIF2A_RAT Isoform 2 of Kinesin-like protein KIF2A OS=Rattus norvegicus GN=Kif2a	sp|Q9WV63-2|KIF2A_RAT (+1)	0.00005
tr|A0A0G2JT62|A0A0G2JT62_RAT Receptor-type tyrosine-protein phosphatase F OS=Rattus norvegicus GN=Ptprf PE=1 SV=1	tr|A0A0G2JT62|A0A0G2JT62_RAT (+1)	0.000075
tr|A0A0G2JUT1|A0A0G2JUT1_RAT Protein Cadm1 OS=Rattus norvegicus GN=Cadm1 PE=1 SV=1	tr|A0A0G2JUT1|A0A0G2JUT1_RAT (+1)	0.000075
tr|A0A0G2JUU7|A0A0G2JUU7_RAT Protein Tubgcp3 OS=Rattus norvegicus GN=Tubgcp3 PE=1 SV=1	tr|A0A0G2JUU7|A0A0G2JUU7_RAT (+1)	0.0001
tr|A0A0G2JVM2|A0A0G2JVM2_RAT Protein Mia3 OS=Rattus norvegicus GN=Mia3 PE=1 SV=1	tr|A0A0G2JVM2|A0A0G2JVM2_RAT	0.000075
tr|A0A0G2JW28|A0A0G2JW28_RAT Gamma-adducin OS=Rattus norvegicus GN=Add3 PE=1 SV=1	tr|A0A0G2JW28|A0A0G2JW28_RAT (+2)	0.000075
tr|A0A0G2JWU3|A0A0G2JWU3_RAT Protein LOC100359687 OS=Rattus norvegicus GN=LOC100359687 PE=1 SV=1	tr|A0A0G2JWU3|A0A0G2JWU3_RAT (+2)	0.000075
tr|A0A0G2K5A4|A0A0G2K5A4_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K5A4|A0A0G2K5A4_RAT (+1)	0.000075
tr|A0A0G2K5C8|A0A0G2K5C8_RAT Stromal interaction molecule 1 OS=Rattus norvegicus GN=Stim1 PE=1 SV=1	tr|A0A0G2K5C8|A0A0G2K5C8_RAT	0.000075
tr|A0A0G2K6N9|A0A0G2K6N9_RAT COMM domain containing 4 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Commd4 PE=1 SV=1	tr|A0A0G2K6N9|A0A0G2K6N9_RAT	0.0001
tr|A9CMB8|A9CMB8_RAT DNA helicase OS=Rattus norvegicus GN=Mcm6 PE=1 SV=1	tr|A9CMB8|A9CMB8_RAT	0.000075
tr|B0BNB9|B0BNB9_RAT HtrA serine peptidase 2 OS=Rattus norvegicus GN=Htra2 PE=1 SV=1	tr|B0BNB9|B0BNB9_RAT	0.000075
tr|B1H264|B1H264_RAT Protein Tbc1d17 OS=Rattus norvegicus GN=Tbc1d17 PE=1 SV=1	tr|B1H264|B1H264_RAT	0.000075
tr|B2GUV5|B2GUV5_RAT ATPase, H transporting, lysosomal V1 subunit G1 OS=Rattus norvegicus GN=Atp6v1g1 PE=1 SV=1	tr|B2GUV5|B2GUV5_RAT	0.000075
tr|B2GUZ6|B2GUZ6_RAT Protein Rtn4ip1 OS=Rattus norvegicus GN=Rtn4ip1 PE=1 SV=1	tr|B2GUZ6|B2GUZ6_RAT	0.000075
tr|D3ZAQ4|D3ZAQ4_RAT Proteasome assembly chaperone 2 OS=Rattus norvegicus GN=Psmg2 PE=3 SV=1	tr|D3ZAQ4|D3ZAQ4_RAT	0.0001
tr|D3ZCA0|D3ZCA0_RAT Proline synthetase co-transcribed (Predicted) OS=Rattus norvegicus GN=Prosc PE=1 SV=1	tr|D3ZCA0|D3ZCA0_RAT	0.0001
tr|D3ZCG3|D3ZCG3_RAT Protein Mon2 OS=Rattus norvegicus GN=Mon2 PE=1 SV=3	tr|D3ZCG3|D3ZCG3_RAT (+1)	0.0001
tr|D3ZD09|D3ZD09_RAT Cytochrome c oxidase subunit 6B1 OS=Rattus norvegicus GN=Cox6b1 PE=1 SV=1	tr|D3ZD09|D3ZD09_RAT	0.000075
tr|D3ZJ25|D3ZJ25_RAT Amino acid transporter OS=Rattus norvegicus GN=Slc1a5 PE=1 SV=3	tr|D3ZJ25|D3ZJ25_RAT (+1)	0.0001
tr|D3ZJR1|D3ZJR1_RAT Protein Eps15l1 OS=Rattus norvegicus GN=Eps15l1 PE=1 SV=3	tr|D3ZJR1|D3ZJR1_RAT	0.00012
tr|D3ZKG5|D3ZKG5_RAT Protein Parvb OS=Rattus norvegicus GN=Parvb PE=1 SV=1	tr|D3ZKG5|D3ZKG5_RAT	0.000075
tr|D3ZUD8|D3ZUD8_RAT Protein Tm9sf3 OS=Rattus norvegicus GN=Tm9sf3 PE=1 SV=2	tr|D3ZUD8|D3ZUD8_RAT	0.00005
tr|D3ZUM4|D3ZUM4_RAT Beta-galactosidase OS=Rattus norvegicus GN=Glb1 PE=1 SV=1	tr|D3ZUM4|D3ZUM4_RAT	0.00005
tr|D3ZWA8|D3ZWA8_RAT Protein Appl1 OS=Rattus norvegicus GN=Appl1 PE=1 SV=3	tr|D3ZWA8|D3ZWA8_RAT	0.00012
tr|D4A0W1|D4A0W1_RAT Protein Emc4 OS=Rattus norvegicus GN=Emc4 PE=1 SV=1	tr|D4A0W1|D4A0W1_RAT	0.0001
tr|D4A2H2|D4A2H2_RAT Protein Sptlc1 OS=Rattus norvegicus GN=Sptlc1 PE=1 SV=1	tr|D4A2H2|D4A2H2_RAT	0.0001
tr|D4A3V2|D4A3V2_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6 OS=Rattus norvegicus GN=Ndufa6 PE=1 SV=1	tr|D4A3V2|D4A3V2_RAT	0.0001
tr|D4A4K4|D4A4K4_RAT Protein Vps13c OS=Rattus norvegicus GN=Vps13c PE=1 SV=2	tr|D4A4K4|D4A4K4_RAT	0.00005
tr|D4A4T0|D4A4T0_RAT Protein Stub1 OS=Rattus norvegicus GN=Stub1 PE=1 SV=1	tr|D4A4T0|D4A4T0_RAT	0.0001
Cluster of tr|D4A916|D4A916_RAT Protein Celf3 OS=Rattus norvegicus GN=Celf3 PE=4 SV=2 (tr|D4A916|D4A916_RAT)	tr|D4A916|D4A916_RAT	0.0001
tr|D4A916|D4A916_RAT Protein Celf3 OS=Rattus norvegicus GN=Celf3 PE=4 SV=2	tr|D4A916|D4A916_RAT	0.0001
tr|D4A9Y0|D4A9Y0_RAT Protein Sdf2l1 OS=Rattus norvegicus GN=Sdf2l1 PE=1 SV=1	tr|D4A9Y0|D4A9Y0_RAT	0.000075
tr|E9PT65|E9PT65_RAT Protein Rdx OS=Rattus norvegicus GN=Rdx PE=1 SV=2	tr|E9PT65|E9PT65_RAT	0.0002
tr|F1LND1|F1LND1_RAT Protein Cog1 OS=Rattus norvegicus GN=Cog1 PE=1 SV=1	tr|F1LND1|F1LND1_RAT	0.0001
tr|F1LRB7|F1LRB7_RAT Tumor susceptibility gene 101 OS=Rattus norvegicus GN=Tsg101 PE=1 SV=3	tr|F1LRB7|F1LRB7_RAT	0.000075
tr|F1M0U5|F1M0U5_RAT Protein Nbas OS=Rattus norvegicus GN=Nbas PE=1 SV=2	tr|F1M0U5|F1M0U5_RAT	0.00012
tr|F1M1D5|F1M1D5_RAT Protein Tbcd OS=Rattus norvegicus GN=Tbcd PE=1 SV=3	tr|F1M1D5|F1M1D5_RAT	0.00005
tr|G3V6S2|G3V6S2_RAT Aconitate hydratase OS=Rattus norvegicus GN=Aco1 PE=1 SV=1	tr|G3V6S2|G3V6S2_RAT	0.000025
tr|G3V8Q8|G3V8Q8_RAT Protein Sec23ip OS=Rattus norvegicus GN=Sec23ip PE=1 SV=1	tr|G3V8Q8|G3V8Q8_RAT	0.0001
tr|G3V8U4|G3V8U4_RAT Sorting nexin family member 27, isoform CRA_b OS=Rattus norvegicus GN=Snx27 PE=1 SV=3	tr|G3V8U4|G3V8U4_RAT (+1)	0.0001
tr|G3V9M1|G3V9M1_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 23 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ddx23 PE=1 SV=1	tr|G3V9M1|G3V9M1_RAT	0.00005
tr|Q0D2L2|Q0D2L2_RAT Protein Mrps22 OS=Rattus norvegicus GN=Mrps22 PE=1 SV=1	tr|Q0D2L2|Q0D2L2_RAT	0.00012
tr|Q3B8R7|Q3B8R7_RAT Mitochondrial ribosomal protein L47 OS=Rattus norvegicus GN=Mrpl47 PE=1 SV=1	tr|Q3B8R7|Q3B8R7_RAT	0.0001
tr|Q4KM24|Q4KM24_RAT Peroxisomal biogenesis factor 11 beta OS=Rattus norvegicus GN=Pex11b PE=1 SV=1	tr|Q4KM24|Q4KM24_RAT	0
tr|Q56R18|Q56R18_RAT Importin subunit alpha OS=Rattus norvegicus GN=Kpna3 PE=1 SV=1	tr|Q56R18|Q56R18_RAT	0.0001
tr|Q5FVM2|Q5FVM2_RAT Glucose-6-phosphatase OS=Rattus norvegicus GN=Psme3 PE=1 SV=1	tr|Q5FVM2|Q5FVM2_RAT	0.000075
tr|Q5M830|Q5M830_RAT Protein Rfc3 OS=Rattus norvegicus GN=Rfc3 PE=1 SV=1	tr|Q5M830|Q5M830_RAT	0.000075
tr|Q5U2U4|Q5U2U4_RAT Protein Scamp2 OS=Rattus norvegicus GN=Scamp2 PE=1 SV=1	tr|Q5U2U4|Q5U2U4_RAT	0.000075
tr|Q5VLR5|Q5VLR5_RAT BWK4 OS=Rattus norvegicus GN=Erp44 PE=1 SV=1	tr|Q5VLR5|Q5VLR5_RAT	0.00012
tr|Q5XHZ8|Q5XHZ8_RAT Component of oligomeric golgi complex 3 OS=Rattus norvegicus GN=Cog3 PE=1 SV=1	tr|Q5XHZ8|Q5XHZ8_RAT	0.000075
tr|Q6V7V4|Q6V7V4_RAT AMP-activated protein kinase gamma 2 non-catalytic subunit OS=Rattus norvegicus GN=Prkag2 PE=1 SV=1	tr|Q6V7V4|Q6V7V4_RAT	0.000075
sp|O35093|TIM23_RAT Mitochondrial import inner membrane translocase subunit Tim23 OS=Rattus norvegicus GN=Timm23 PE=2 SV=1	sp|O35093|TIM23_RAT (+1)	0.00005
sp|P04166|CYB5B_RAT Cytochrome b5 type B OS=Rattus norvegicus GN=Cyb5b PE=1 SV=2	sp|P04166|CYB5B_RAT	0.000075
sp|P10687|PLCB1_RAT 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1 OS=Rattus norvegicus GN=Plcb1 PE=1 SV=1	sp|P10687|PLCB1_RAT (+2)	0.0001
sp|Q4V898|RBMX_RAT RNA-binding motif protein, X chromosome OS=Rattus norvegicus GN=Rbmx PE=1 SV=1	sp|Q4V898|RBMX_RAT	0.000075
tr|D3ZVS2|D3ZVS2_RAT L-2-hydroxyglutarate dehydrogenase (Predicted) OS=Rattus norvegicus GN=L2hgdh PE=1 SV=1	tr|D3ZVS2|D3ZVS2_RAT	0.000075
tr|F1LQJ1|F1LQJ1_RAT Hydroxyacyl glutathione hydrolase OS=Rattus norvegicus GN=Hagh PE=1 SV=2	tr|F1LQJ1|F1LQJ1_RAT	0.000075
tr|Q5XFW4|Q5XFW4_RAT Mitochondrial ribosomal protein L13 OS=Rattus norvegicus GN=Mrpl13 PE=1 SV=1	tr|Q5XFW4|Q5XFW4_RAT	0.000075
tr|Q6P9X2|Q6P9X2_RAT Signal peptidase complex catalytic subunit SEC11 OS=Rattus norvegicus GN=Sec11a PE=1 SV=1	tr|Q6P9X2|Q6P9X2_RAT	0.0001

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZEG8|D3ZEG8_RAT Protein RGD1309188 OS=Rattus norvegicus GN=RGD1309188 PE=1 SV=1	tr|D3ZEG8|D3ZEG8_RAT	0.00005
Cluster of tr|Q3B7U1|Q3B7U1_RAT Melanoma antigen, family D, 2 OS=Rattus norvegicus GN=Maged2 PE=1 SV=1 (tr|Q3B7U1|Q3B7U1_RAT)	tr|Q3B7U1|Q3B7U1_RAT	0.000075
tr|Q3B7U1|Q3B7U1_RAT Melanoma antigen, family D, 2 OS=Rattus norvegicus GN=Maged2 PE=1 SV=1	tr|Q3B7U1|Q3B7U1_RAT	0.000075
tr|D3ZMS1|D3ZMS1_RAT Protein Sf3b2 OS=Rattus norvegicus GN=Sf3b2 PE=1 SV=3	tr|D3ZMS1|D3ZMS1_RAT	0.000075
sp|P83565|RM40_RAT 39S ribosomal protein L40, mitochondrial OS=Rattus norvegicus GN=Mrpl40 PE=1 SV=2	sp|P83565|RM40_RAT	0.000075
sp|Q08877-10|DYN3_RAT Isoform 9 of Dynamin-3 OS=Rattus norvegicus GN=Dnm3	sp|Q08877-10|DYN3_RAT (+11)	0.00037
tr|F1M9C9|F1M9C9_RAT Protein Hars2 OS=Rattus norvegicus GN=Hars2 PE=1 SV=1	tr|F1M9C9|F1M9C9_RAT	0.000075
tr|Q5RKJ4|Q5RKJ4_RAT Farnesyltransferase, CAAX box, alpha OS=Rattus norvegicus GN=Fnta PE=1 SV=1	tr|Q5RKJ4|Q5RKJ4_RAT	0.00005
tr|M0RBF8|M0RBF8_RAT Exocyst complex component 4 OS=Rattus norvegicus GN=Exoc4 PE=1 SV=2	tr|M0RBF8|M0RBF8_RAT	0.000075
sp|Q63750|RM23_RAT 39S ribosomal protein L23, mitochondrial OS=Rattus norvegicus GN=Mrpl23 PE=2 SV=1	sp|Q63750|RM23_RAT	0.000075
tr|B5DFI3|B5DFI3_RAT Adaptor protein complex AP-1, sigma 1 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ap1s1 PE=1 SV=1	tr|B5DFI3|B5DFI3_RAT	0.0001
tr|G3V928|G3V928_RAT Protein Lrp1 OS=Rattus norvegicus GN=Lrp1 PE=1 SV=1	tr|G3V928|G3V928_RAT	0.000025
sp|Q498C8|RER1_RAT Protein RER1 OS=Rattus norvegicus GN=Rer1 PE=1 SV=1	sp|Q498C8|RER1_RAT	0.000075
sp|Q9Z336|DYLT1_RAT Dynein light chain Tctex-type 1 OS=Rattus norvegicus GN=Dynlt1 PE=1 SV=1	sp|Q9Z336|DYLT1_RAT	0.0001
tr|M0RAD5|M0RAD5_RAT ATP-dependent Clp protease proteolytic subunit OS=Rattus norvegicus GN=Clpp PE=1 SV=1	tr|M0RAD5|M0RAD5_RAT	0.00012
sp|O08984|LBR_RAT Lamin-B receptor OS=Rattus norvegicus GN=Lbr PE=1 SV=1	sp|O08984|LBR_RAT	0.000075
tr|Q5U2U8|Q5U2U8_RAT Bcl2-associated athanogene 3 OS=Rattus norvegicus GN=Bag3 PE=1 SV=1	tr|Q5U2U8|Q5U2U8_RAT	0.000075
tr|D4A7R3|D4A7R3_RAT Nucleoporin 205kDa (Predicted) OS=Rattus norvegicus GN=Nup205 PE=1 SV=1	tr|D4A7R3|D4A7R3_RAT	0.000075
sp|Q7TQ16|QCR8_RAT Cytochrome b-c1 complex subunit 8 OS=Rattus norvegicus GN=Uqcrq PE=3 SV=1	sp|Q7TQ16|QCR8_RAT	0.000075
tr|G3V7P3|G3V7P3_RAT 39S ribosomal protein L3, mitochondrial OS=Rattus norvegicus GN=Mrpl3 PE=1 SV=1	tr|G3V7P3|G3V7P3_RAT	0.000075
tr|D4ADL7|D4ADL7_RAT Protein Xxylt1 OS=Rattus norvegicus GN=Xxylt1 PE=4 SV=1	tr|D4ADL7|D4ADL7_RAT	0.000075
tr|E9PTX9|E9PTX9_RAT Protein Slc12a2 OS=Rattus norvegicus GN=Slc12a2 PE=1 SV=1	tr|E9PTX9|E9PTX9_RAT	0.000025
Cluster of tr|G3V6B0|G3V6B0_RAT Protein LOC103689979 OS=Rattus norvegicus GN=Pdxdc1 PE=1 SV=1 (tr|G3V6B0|G3V6B0_RAT)	tr|G3V6B0|G3V6B0_RAT	0.00012
tr|G3V6B0|G3V6B0_RAT Protein LOC103689979 OS=Rattus norvegicus GN=Pdxdc1 PE=1 SV=1	tr|G3V6B0|G3V6B0_RAT	0.00012
sp|P84039|ENPP5_RAT Ectonucleotide pyrophosphatase/phosphodiesterase family member 5 OS=Rattus norvegicus GN=Enpp5 PE=1 SV=2	sp|P84039|ENPP5_RAT	0.000025
sp|P24051|RS27L_RAT 40S ribosomal protein S27-like OS=Rattus norvegicus GN=Rps27l PE=1 SV=3	sp|P24051|RS27L_RAT	0.0001
sp|Q8VIL3|ZWINT_RAT ZW10 interactor OS=Rattus norvegicus GN=Zwint PE=1 SV=1	sp|Q8VIL3|ZWINT_RAT	0.00005
tr|A0A0F7RQL3|A0A0F7RQL3_RAT Macrophage migration inhibitory factor OS=Rattus norvegicus GN=Mif PE=1 SV=1	tr|A0A0F7RQL3|A0A0F7RQL3_RAT	0.000075
tr|B2RZ74|B2RZ74_RAT Protein Snrnp70 OS=Rattus norvegicus GN=Snrnp70 PE=1 SV=1	tr|B2RZ74|B2RZ74_RAT	0.000025
sp|Q5BJM8|ZNT7_RAT Zinc transporter 7 OS=Rattus norvegicus GN=Slc30a7 PE=2 SV=2	sp|Q5BJM8|ZNT7_RAT	0
Cluster of sp|Q6TRW4-2|PDS5B_RAT Isoform 2 of Sister chromatid cohesion protein PDS5 homolog B OS=Rattus norvegicus GN=Pds5b (sp|Q6TRW4-2|PDS5B_RAT)	sp|Q6TRW4-2|PDS5B_RAT [7]	0.0001
sp|Q6TRW4-2|PDS5B_RAT Isoform 2 of Sister chromatid cohesion protein PDS5 homolog B OS=Rattus norvegicus GN=Pds5b	sp|Q6TRW4-2|PDS5B_RAT (+6)	0.0001
sp|A0JPM9|EIF3J_RAT Eukaryotic translation initiation factor 3 subunit J OS=Rattus norvegicus GN=Eif3j PE=1 SV=1	sp|A0JPM9|EIF3J_RAT	0.00005
sp|A1A5S1|PRP6_RAT Pre-mRNA-processing factor 6 OS=Rattus norvegicus GN=Prpf6 PE=1 SV=1	sp|A1A5S1|PRP6_RAT	0.00005
sp|A1L1J9|LMF2_RAT Lipase maturation factor 2 OS=Rattus norvegicus GN=Lmf2 PE=2 SV=1	sp|A1L1J9|LMF2_RAT	0.0001
sp|A1L1L2|TM214_RAT Transmembrane protein 214 OS=Rattus norvegicus GN=Tmem214 PE=2 SV=1	sp|A1L1L2|TM214_RAT	0.0001
sp|G3V7P1|STX12_RAT Syntaxin-12 OS=Rattus norvegicus GN=Stx12 PE=1 SV=1	sp|G3V7P1|STX12_RAT (+2)	0.0001
sp|O35854|BCAT2_RAT Branched-chain-amino-acid aminotransferase, mitochondrial OS=Rattus norvegicus GN=Bcat2 PE=1 SV=1	sp|O35854|BCAT2_RAT (+1)	0.00012
sp|O54698|S29A1_RAT Equilibrative nucleoside transporter 1 OS=Rattus norvegicus GN=Slc29a1 PE=1 SV=3	sp|O54698|S29A1_RAT	0.00005
sp|P08011|MGST1_RAT Microsomal glutathione S-transferase 1 OS=Rattus norvegicus GN=Mgst1 PE=1 SV=3	sp|P08011|MGST1_RAT	0.000075
sp|P09456|KAP0_RAT cAMP-dependent protein kinase type I-alpha regulatory subunit OS=Rattus norvegicus GN=Prkar1a PE=1 SV=2	sp|P09456|KAP0_RAT	0.00005
sp|P0C5H9|MANF_RAT Mesencephalic astrocyte-derived neurotrophic factor OS=Rattus norvegicus GN=Manf PE=1 SV=1	sp|P0C5H9|MANF_RAT	0.000075
sp|P14925-2|AMD_RAT Isoform PAM-2 of Peptidyl-glycine alpha-amidating monooxygenase OS=Rattus norvegicus GN=Pam	sp|P14925-2|AMD_RAT (+5)	0.000075
sp|P35433|PUR1_RAT Amidophosphoribosyltransferase OS=Rattus norvegicus GN=Ppat PE=1 SV=1	sp|P35433|PUR1_RAT	0.000075
sp|P45479|PPT1_RAT Palmitoyl-protein thioesterase 1 OS=Rattus norvegicus GN=Ppt1 PE=1 SV=1	sp|P45479|PPT1_RAT	0.000075
sp|P56571|ES1_RAT ES1 protein homolog, mitochondrial OS=Rattus norvegicus PE=1 SV=2	sp|P56571|ES1_RAT	0.00005
sp|P62864|RS30_RAT 40S ribosomal protein S30 OS=Rattus norvegicus GN=Fau PE=1 SV=1	sp|P62864|RS30_RAT (+1)	0.000075
sp|P63029|TCTP_RAT Translationally-controlled tumor protein OS=Rattus norvegicus GN=Tpt1 PE=1 SV=1	sp|P63029|TCTP_RAT	0.0001
sp|P97612|FAAH1_RAT Fatty-acid amide hydrolase 1 OS=Rattus norvegicus GN=Faah PE=1 SV=1	sp|P97612|FAAH1_RAT	0.0001
sp|Q496Z0|ELP2_RAT Elongator complex protein 2 OS=Rattus norvegicus GN=Elp2 PE=2 SV=1	sp|Q496Z0|ELP2_RAT	0.000025
sp|Q4FZT8|SPRY4_RAT SPRY domain-containing protein 4 OS=Rattus norvegicus GN=Spryd4 PE=2 SV=1	sp|Q4FZT8|SPRY4_RAT	0.00005
sp|Q4KLL4|TM9S4_RAT Transmembrane 9 superfamily member 4 OS=Rattus norvegicus GN=Tm9sf4 PE=2 SV=1	sp|Q4KLL4|TM9S4_RAT (+1)	0.000075
sp|Q5BK85|TMED1_RAT Transmembrane emp24 domain-containing protein 1 OS=Rattus norvegicus GN=Tmed1 PE=2 SV=1	sp|Q5BK85|TMED1_RAT	0.000075
sp|Q5FVH2|PLD3_RAT Phospholipase D3 OS=Rattus norvegicus GN=Pld3 PE=2 SV=1	sp|Q5FVH2|PLD3_RAT	0.000025
sp|Q5M7W5-2|MAP4_RAT Isoform 2 of Microtubule-associated protein 4 OS=Rattus norvegicus GN=Map4	sp|Q5M7W5-2|MAP4_RAT (+1)	0.00005
sp|Q5NDF0|PMGT2_RAT Protein O-linked-mannose beta-1,4-N-acetylglucosaminyltransferase 2 OS=Rattus norvegicus GN=Pomgnt2 PE=2 SV=1	sp|Q5NDF0|PMGT2_RAT	0.0001
sp|Q5PQL2|RCD1_RAT Cell differentiation protein RCD1 homolog OS=Rattus norvegicus GN=Rqcd1 PE=1 SV=1	sp|Q5PQL2|RCD1_RAT	0.0001
sp|Q5XI37|RT15_RAT 28S ribosomal protein S15, mitochondrial OS=Rattus norvegicus GN=Mrps15 PE=2 SV=1	sp|Q5XI37|RT15_RAT	0.00012
sp|Q62733|LAP2_RAT Lamina-associated polypeptide 2, isoform beta OS=Rattus norvegicus GN=Tmpo PE=1 SV=3	sp|Q62733|LAP2_RAT	0.000075
sp|Q64591|DECR_RAT 2,4-dienoyl-CoA reductase, mitochondrial OS=Rattus norvegicus GN=Decr1 PE=1 SV=2	sp|Q64591|DECR_RAT (+1)	0.00005
sp|Q6AXQ0|SAE1_RAT SUMO-activating enzyme subunit 1 OS=Rattus norvegicus GN=Sae1 PE=2 SV=1	sp|Q6AXQ0|SAE1_RAT	0.000025
sp|Q6AY94|TIDC1_RAT Complex I assembly factor TIMMDC1, mitochondrial OS=Rattus norvegicus GN=Timmdc1 PE=2 SV=1	sp|Q6AY94|TIDC1_RAT	0.000075
sp|Q6DGG1|ABHEB_RAT Protein ABHD14B OS=Rattus norvegicus GN=Abhd14b PE=2 SV=1	sp|Q6DGG1|ABHEB_RAT	0.00005
sp|Q6MG06|GNL1_RAT Guanine nucleotide-binding protein-like 1 OS=Rattus norvegicus GN=Gnl1 PE=1 SV=1	sp|Q6MG06|GNL1_RAT (+1)	0.00005
sp|Q6MG61|CLIC1_RAT Chloride intracellular channel protein 1 OS=Rattus norvegicus GN=Clic1 PE=1 SV=1	sp|Q6MG61|CLIC1_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q6TUD4|YIPF3_RAT Protein YIPF3 OS=Rattus norvegicus GN=Yipf3 PE=2 SV=1	sp|Q6TUD4|YIPF3_RAT	0.000075
sp|Q704E8|ABCB7_RAT ATP-binding cassette sub-family B member 7, mitochondrial OS=Rattus norvegicus GN=Abcb7 PE=1 SV=1	sp|Q704E8|ABCB7_RAT (+2)	0.000075
sp|Q8VHI8|SEC20_RAT Vesicle transport protein SEC20 OS=Rattus norvegicus GN=Bnip1 PE=2 SV=1	sp|Q8VHI8|SEC20_RAT	0.0001
sp|Q9ESS6|BCAM_RAT Basal cell adhesion molecule OS=Rattus norvegicus GN=Bcam PE=2 SV=1	sp|Q9ESS6|BCAM_RAT	0.00005
sp|Q9JJ19|NHRF1_RAT Na(+)/H(+) exchange regulatory cofactor NHE-RF1 OS=Rattus norvegicus GN=Slc9a3r1 PE=1 SV=3	sp|Q9JJ19|NHRF1_RAT	0.000075
sp|Q9R0J8|LGMN_RAT Legumain OS=Rattus norvegicus GN=Lgmn PE=1 SV=1	sp|Q9R0J8|LGMN_RAT (+1)	0.000075
sp|Q9WVR3-2|SHIP2_RAT Isoform 2 of Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2 OS=Rattus norvegicus GN=Inppl1	sp|Q9WVR3-2|SHIP2_RAT (+2)	0.000075
tr|A0A0G2JUT7|A0A0G2JUT7_RAT Protein B3glct OS=Rattus norvegicus GN=B3glct PE=1 SV=1	tr|A0A0G2JUT7|A0A0G2JUT7_RAT	0.000075
tr|A0A0G2JVD6|A0A0G2JVD6_RAT Protein Kmt2d OS=Rattus norvegicus GN=Kmt2d PE=1 SV=1	tr|A0A0G2JVD6|A0A0G2JVD6_RAT	0.0001
tr|A0A0G2JX62|A0A0G2JX62_RAT Protein Srpk2 OS=Rattus norvegicus GN=Srpk2 PE=1 SV=1	tr|A0A0G2JX62|A0A0G2JX62_RAT (+1)	0.0001
tr|A0A0G2K1D2|A0A0G2K1D2_RAT Protein Rap1gds1 OS=Rattus norvegicus GN=Rap1gds1 PE=1 SV=1	tr|A0A0G2K1D2|A0A0G2K1D2_RAT (+1)	0.00005
tr|A0A0G2K528|A0A0G2K528_RAT Protein Stx16 OS=Rattus norvegicus GN=Stx16 PE=1 SV=1	tr|A0A0G2K528|A0A0G2K528_RAT	0.000075
tr|A0A0G2K9P4|A0A0G2K9P4_RAT Endophilin-B2 OS=Rattus norvegicus GN=Sh3glb2 PE=1 SV=1	tr|A0A0G2K9P4|A0A0G2K9P4_RAT	0.00005
tr|A0A0U1RRU0|A0A0U1RRU0_RAT Protein Srpk1 OS=Rattus norvegicus GN=Srpk1 PE=4 SV=1	tr|A0A0U1RRU0|A0A0U1RRU0_RAT	0.0001
tr|B2GV41|B2GV41_RAT Protein Usp39 OS=Rattus norvegicus GN=Usp39 PE=1 SV=1	tr|B2GV41|B2GV41_RAT	0.000075
tr|B2RYK3|B2RYK3_RAT RCG56371 OS=Rattus norvegicus GN=Spr PE=1 SV=1	tr|B2RYK3|B2RYK3_RAT	0.00005
tr|B5DEI0|B5DEI0_RAT Pcyox1l protein OS=Rattus norvegicus GN=Pcyox1l PE=2 SV=1	tr|B5DEI0|B5DEI0_RAT	0.00005
tr|B5DFN4|B5DFN4_RAT Prefoldin 5 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Pfdn5 PE=1 SV=1	tr|B5DFN4|B5DFN4_RAT	0.000075
tr|D3ZEA0|D3ZEA0_RAT Fibronectin type III domain containing 3a (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Fndc3a PE=1 SV=2	tr|D3ZEA0|D3ZEA0_RAT	0.000075
tr|D3ZEM8|D3ZEM8_RAT Protein Tsr1 OS=Rattus norvegicus GN=Tsr1 PE=1 SV=1	tr|D3ZEM8|D3ZEM8_RAT	0.0001
tr|D3ZI16|D3ZI16_RAT COP9 (Constitutive photomorphogenic) homolog, subunit 6 (Arabidopsis thaliana) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Cops6	tr|D3ZI16|D3ZI16_RAT	0.0001
tr|D3ZLC1|D3ZLC1_RAT Protein Lmnb2 OS=Rattus norvegicus GN=Lmnb2 PE=1 SV=2	tr|D3ZLC1|D3ZLC1_RAT	0.00005
tr|D3ZUX5|D3ZUX5_RAT MICOS complex subunit OS=Rattus norvegicus GN=Chchd3 PE=1 SV=1	tr|D3ZUX5|D3ZUX5_RAT	0.0001
tr|D3ZUX7|D3ZUX7_RAT Protein Acsf3 OS=Rattus norvegicus GN=Acsf3 PE=1 SV=1	tr|D3ZUX7|D3ZUX7_RAT	0.0001
tr|D3ZY44|D3ZY44_RAT Protein Mrps2 OS=Rattus norvegicus GN=Mrps2 PE=1 SV=1	tr|D3ZY44|D3ZY44_RAT	0.00012
tr|D3ZZR9|D3ZZR9_RAT Peptidyl-prolyl cis-trans isomerase OS=Rattus norvegicus GN=Fkbp2 PE=1 SV=1	tr|D3ZZR9|D3ZZR9_RAT	0.000075
tr|D4A131|D4A131_RAT Mitochondrial ribosomal protein L4 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrpl4 PE=1 SV=1	tr|D4A131|D4A131_RAT	0.00005
tr|D4A1B8|D4A1B8_RAT Protein Dctn3 OS=Rattus norvegicus GN=Dctn3 PE=1 SV=1	tr|D4A1B8|D4A1B8_RAT	0.000075
tr|D4AE56|D4AE56_RAT Prostaglandin E synthase 2 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Ptges2 PE=1 SV=1	tr|D4AE56|D4AE56_RAT	0.00005
Cluster of tr|F1M1L9|F1M1L9_RAT Protein Cpne2 OS=Rattus norvegicus GN=Cpne2 PE=4 SV=3 (tr|F1M1L9|F1M1L9_RAT)	tr|F1M1L9|F1M1L9_RAT	0.000075
tr|F1M1L9|F1M1L9_RAT Protein Cpne2 OS=Rattus norvegicus GN=Cpne2 PE=4 SV=3	tr|F1M1L9|F1M1L9_RAT	0.000075
tr|G3V774|G3V774_RAT F-box only protein 2 OS=Rattus norvegicus GN=Fbxo2 PE=4 SV=1	tr|G3V774|G3V774_RAT	0.000075
tr|Q3KRE2|Q3KRE2_RAT Methyltransferase like 7A OS=Rattus norvegicus GN=Mettl7a PE=1 SV=1	tr|Q3KRE2|Q3KRE2_RAT	0.0001
tr|Q3MIE7|Q3MIE7_RAT COMM domain containing 9 OS=Rattus norvegicus GN=Commd9 PE=1 SV=1	tr|Q3MIE7|Q3MIE7_RAT	0.000075
tr|Q4FZU0|Q4FZU0_RAT Acid phosphatase 6, lysophosphatidic OS=Rattus norvegicus GN=Acp6 PE=1 SV=1	tr|Q4FZU0|Q4FZU0_RAT	0.00005
tr|Q5U355|Q5U355_RAT Itfg1 protein OS=Rattus norvegicus GN=Itfg1 PE=1 SV=1	tr|Q5U355|Q5U355_RAT	0.00005
tr|Q642E5|Q642E5_RAT Diphosphomevalonate decarboxylase OS=Rattus norvegicus GN=Mvd PE=1 SV=1	tr|Q642E5|Q642E5_RAT	0.000075
tr|Q66H09|Q66H09_RAT Protein Ttc1 OS=Rattus norvegicus GN=Ttc1 PE=1 SV=1	tr|Q66H09|Q66H09_RAT	0.000075
tr|Q6AXY8|Q6AXY8_RAT Dehydrogenase/reductase (SDR family) member 1 OS=Rattus norvegicus GN=Dhrs1 PE=1 SV=1	tr|Q6AXY8|Q6AXY8_RAT	0.0001
tr|Q6P762|Q6P762_RAT Alpha-mannosidase OS=Rattus norvegicus GN=Man2b1 PE=1 SV=1	tr|Q6P762|Q6P762_RAT	0.0001
tr|Q7TQ77|Q7TQ77_RAT Ac1288 OS=Rattus norvegicus GN=Hook3 PE=1 SV=1	tr|Q7TQ77|Q7TQ77_RAT	0.000075
sp|P18395|CSDE1_RAT Cold shock domain-containing protein E1 OS=Rattus norvegicus GN=Csde1 PE=2 SV=1	sp|P18395|CSDE1_RAT	0.000075
sp|P62870|ELOB_RAT Transcription elongation factor B polypeptide 2 OS=Rattus norvegicus GN=Tceb2 PE=1 SV=1	sp|P62870|ELOB_RAT	0.0001
sp|Q09325|MGAT1_RAT Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase OS=Rattus norvegicus GN=Mgat1 PE=2 SV=1	sp|Q09325|MGAT1_RAT	0.000075
sp|Q3KRD0|SYDM_RAT Aspartate--tRNA ligase, mitochondrial OS=Rattus norvegicus GN=Dars2 PE=1 SV=1	sp|Q3KRD0|SYDM_RAT	0.00005
sp|Q5I0H4|TMCO1_RAT Transmembrane and coiled-coil domains protein 1 OS=Rattus norvegicus GN=Tmco1 PE=2 SV=1	sp|Q5I0H4|TMCO1_RAT	0.0001
sp|Q6AYG5|ECHD1_RAT Ethylmalonyl-CoA decarboxylase OS=Rattus norvegicus GN=Echdc1 PE=1 SV=1	sp|Q6AYG5|ECHD1_RAT	0.00005
tr|A0A0G2JXT6|A0A0G2JXT6_RAT Protein Mtmr6 OS=Rattus norvegicus GN=Mtmr6 PE=1 SV=1	tr|A0A0G2JXT6|A0A0G2JXT6_RAT	0.00005
tr|B0BNE3|B0BNE3_RAT Protein Trappc5 OS=Rattus norvegicus GN=Trappc5 PE=1 SV=1	tr|B0BNE3|B0BNE3_RAT	0.000075
tr|B5DEJ5|B5DEJ5_RAT Eefsec protein OS=Rattus norvegicus GN=Eefsec PE=1 SV=1	tr|B5DEJ5|B5DEJ5_RAT	0.000075
tr|D3ZFY8|D3ZFY8_RAT Protein LOC100912618 OS=Rattus norvegicus GN=LOC100912618 PE=1 SV=1	tr|D3ZFY8|D3ZFY8_RAT	0.000075
tr|D3ZYQ8|D3ZYQ8_RAT Uridine kinase OS=Rattus norvegicus GN=Uckl1 PE=3 SV=1	tr|D3ZYQ8|D3ZYQ8_RAT	0.00005
tr|F1M124|F1M124_RAT Protein Cobll1 OS=Rattus norvegicus GN=Cobll1 PE=1 SV=2	tr|F1M124|F1M124_RAT	0.000075
tr|F7FNS3|F7FNS3_RAT Protein Derl1 OS=Rattus norvegicus GN=Derl1 PE=1 SV=1	tr|F7FNS3|F7FNS3_RAT	0.000075
sp|P06760|BGLR_RAT Beta-glucuronidase OS=Rattus norvegicus GN=Gusb PE=2 SV=1	sp|P06760|BGLR_RAT (+1)	0.000025
sp|Q8VH49|HIG1A_RAT HIG1 domain family member 1A, mitochondrial OS=Rattus norvegicus GN=Higd1a PE=1 SV=2	sp|Q8VH49|HIG1A_RAT	0.0001
sp|Q9WVR7|PPM1F_RAT Protein phosphatase 1F OS=Rattus norvegicus GN=Ppm1f PE=2 SV=1	sp|Q9WVR7|PPM1F_RAT	0.00005
tr|F1M403|F1M403_RAT Protein Ube2o OS=Rattus norvegicus GN=Ube2o PE=1 SV=2	tr|F1M403|F1M403_RAT	0.00005
sp|B2GUY0|MA1B1_RAT Endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase OS=Rattus norvegicus GN=Man1b1 PE=2 SV=2	sp|B2GUY0|MA1B1_RAT	0.000075
sp|Q64350|EI2BE_RAT Translation initiation factor eIF-2B subunit epsilon OS=Rattus norvegicus GN=Eif2b5 PE=1 SV=2	sp|Q64350|EI2BE_RAT	0.00005
tr|D3ZG95|D3ZG95_RAT Protein Micu3 OS=Rattus norvegicus GN=Micu3 PE=4 SV=2	tr|D3ZG95|D3ZG95_RAT	0.00005
tr|D3ZYX8|D3ZYX8_RAT Cytochrome c oxidase subunit VIIa polypeptide 2 like (Predicted), isoform CRA_e OS=Rattus norvegicus GN=Cox7a2l PE=1 SV=1	tr|D3ZYX8|D3ZYX8_RAT	0.000075
tr|B5DF60|B5DF60_RAT Eukaryotic translation initiation factor 1A, Y-linked OS=Rattus norvegicus GN=Eif1ax PE=1 SV=1	tr|B5DF60|B5DF60_RAT	0.00005
sp|Q56A27|NCBP1_RAT Nuclear cap-binding protein subunit 1 OS=Rattus norvegicus GN=Ncbp1 PE=1 SV=1	sp|Q56A27|NCBP1_RAT	0.00005
tr|D3ZE49|D3ZE49_RAT Protein Trappc12 OS=Rattus norvegicus GN=Trappc12 PE=1 SV=1	tr|D3ZE49|D3ZE49_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZM09|D3ZM09_RAT Protein Sars2 OS=Rattus norvegicus GN=Sars2 PE=1 SV=1	tr|D3ZM09|D3ZM09_RAT	0.0001
tr|F1LQ48|F1LQ48_RAT Protein Fblim1 OS=Rattus norvegicus GN=Hnrnpl PE=1 SV=2	tr|F1LQ48|F1LQ48_RAT (+1)	0.000025
sp|P20595|GCYB1_RAT Guanylate cyclase soluble subunit beta-1 OS=Rattus norvegicus GN=Gucy1b3 PE=1 SV=2	sp|P20595|GCYB1_RAT	0.00005
sp|Q5BK26|PLPL7_RAT Patatin-like phospholipase domain-containing protein 7 OS=Rattus norvegicus GN=Pnpla7 PE=1 SV=2	sp|Q5BK26|PLPL7_RAT	0.00005
sp|Q5FWT5|GATA_RAT Glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial OS=Rattus norvegicus GN=Qrsl1 PE=2 SV=1	sp|Q5FWT5|GATA_RAT	0.000075
tr|D4A264|D4A264_RAT Protein Zadh2 OS=Rattus norvegicus GN=Zadh2 PE=1 SV=2	tr|D4A264|D4A264_RAT	0.000075
sp|P25977-2|UBF1_RAT Isoform UBF2 of Nucleolar transcription factor 1 OS=Rattus norvegicus GN=Ubtf	sp|P25977-2|UBF1_RAT (+1)	0.000075
sp|Q6PEC3|YIF1B_RAT Protein YIF1B OS=Rattus norvegicus GN=Yif1b PE=2 SV=2	sp|Q6PEC3|YIF1B_RAT (+1)	0.000075
sp|P08081-2|CLCA_RAT Isoform Non-brain of Clathrin light chain A OS=Rattus norvegicus GN=Clta	sp|P08081-2|CLCA_RAT	0.0001
tr|D3ZN95|D3ZN95_RAT Protein Hcfc1 OS=Rattus norvegicus GN=Hcfc1 PE=1 SV=1	tr|D3ZN95|D3ZN95_RAT	0.00005
sp|Q4KLF8|ARPC5_RAT Actin-related protein 2/3 complex subunit 5 OS=Rattus norvegicus GN=Arpc5 PE=1 SV=3	sp|Q4KLF8|ARPC5_RAT	0.00005
sp|Q9ES54|NPL4_RAT Nuclear protein localization protein 4 homolog OS=Rattus norvegicus GN=Nploc4 PE=1 SV=3	sp|Q9ES54|NPL4_RAT (+2)	0.000025
tr|A0A0G2K0P1|A0A0G2K0P1_RAT Protein Kifap3 OS=Rattus norvegicus GN=Kifap3 PE=1 SV=1	tr|A0A0G2K0P1|A0A0G2K0P1_RAT	0.00005
tr|B2RYN1|B2RYN1_RAT Fructosamine-3-kinase-related protein OS=Rattus norvegicus GN=Fn3krp PE=1 SV=1	tr|B2RYN1|B2RYN1_RAT	0.00005
sp|O89049|TRXR1_RAT Thioredoxin reductase 1, cytoplasmic OS=Rattus norvegicus GN=Txnrd1 PE=1 SV=5	sp|O89049|TRXR1_RAT (+2)	0.000075
Cluster of sp|P52632|STA5B_RAT Signal transducer and activator of transcription 5B OS=Rattus norvegicus GN=Stat5b PE=1 SV=1 (sp|P52632|STA5B_RAT)	sp|P52632|STA5B_RAT [4]	0.0001
sp|P52632|STA5B_RAT Signal transducer and activator of transcription 5B OS=Rattus norvegicus GN=Stat5b PE=1 SV=1	sp|P52632|STA5B_RAT (+2)	0.000075
tr|G3V8K7|G3V8K7_RAT Signal transducer and activator of transcription OS=Rattus norvegicus GN=Stat5a PE=1 SV=1	tr|G3V8K7|G3V8K7_RAT	0.000075
Cluster of sp|Q9QZM5|ABI1_RAT Abl interactor 1 OS=Rattus norvegicus GN=Abi1 PE=1 SV=3 (sp|Q9QZM5|ABI1_RAT)	sp|Q9QZM5|ABI1_RAT [2]	0.000075
sp|Q9QZM5|ABI1_RAT Abl interactor 1 OS=Rattus norvegicus GN=Abi1 PE=1 SV=3	sp|Q9QZM5|ABI1_RAT	0.00005
tr|F1LYA6|F1LYA6_RAT Protein Abi2 OS=Rattus norvegicus GN=Abi2 PE=4 SV=3	tr|F1LYA6|F1LYA6_RAT	0.00005
sp|Q3KR59|UBP10_RAT Ubiquitin carboxyl-terminal hydrolase 10 OS=Rattus norvegicus GN=Usp10 PE=1 SV=1	sp|Q3KR59|UBP10_RAT	0.00005
sp|Q9WTT7|BZW2_RAT Basic leucine zipper and W2 domain-containing protein 2 OS=Rattus norvegicus GN=Bzw2 PE=1 SV=1	sp|Q9WTT7|BZW2_RAT	0.00005
tr|D4ABT8|D4ABT8_RAT Protein Hnrnpul2 OS=Rattus norvegicus GN=Hnrnpul2 PE=1 SV=1	tr|D4ABT8|D4ABT8_RAT	0.00005
tr|D4ADP9|D4ADP9_RAT Coatomer protein complex, subunit zeta 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Copz2 PE=1 SV=2	tr|D4ADP9|D4ADP9_RAT	0.000025
sp|Q5PQX1-3|TOIP1_RAT Isoform 3 of Torsin-1A-interacting protein 1 OS=Rattus norvegicus GN=Tor1aip1	sp|Q5PQX1-3|TOIP1_RAT (+1)	0.00005
sp|O35165|GOSR2_RAT Golgi SNAP receptor complex member 2 OS=Rattus norvegicus GN=Gosr2 PE=1 SV=2	sp|O35165|GOSR2_RAT	0.000075
sp|P10960|SAP_RAT Prosaposin OS=Rattus norvegicus GN=Psap PE=1 SV=1	sp|P10960|SAP_RAT (+1)	0.000025
sp|P60905|DNJC5_RAT DnaJ homolog subfamily C member 5 OS=Rattus norvegicus GN=Dnajc5 PE=1 SV=1	sp|P60905|DNJC5_RAT (+1)	0.000075
sp|P62856|RS26_RAT 40S ribosomal protein S26 OS=Rattus norvegicus GN=Rps26 PE=3 SV=3	sp|P62856|RS26_RAT (+2)	0.0001
sp|Q5U2R7|MESD_RAT LDLR chaperone MESD OS=Rattus norvegicus GN=Mesdc2 PE=2 SV=1	sp|Q5U2R7|MESD_RAT	0.000075
sp|Q7TPJ0|SSRA_RAT Translocon-associated protein subunit alpha OS=Rattus norvegicus GN=Ssr1 PE=1 SV=1	sp|Q7TPJ0|SSRA_RAT (+4)	0.000075
tr|B2RZB7|B2RZB7_RAT Protein Snrpd1 OS=Rattus norvegicus GN=Snrpd1 PE=1 SV=1	tr|B2RZB7|B2RZB7_RAT	0.0001
tr|D3ZFK5|D3ZFK5_RAT Protein Spcs1 OS=Rattus norvegicus GN=Spcs1 PE=1 SV=3	tr|D3ZFK5|D3ZFK5_RAT	0.000075
tr|D3ZQL1|D3ZQL1_RAT Protein Emc7 OS=Rattus norvegicus GN=Emc7 PE=1 SV=3	tr|D3ZQL1|D3ZQL1_RAT	0.00005
tr|F1LPC5|F1LPC5_RAT Protein Tmem259 OS=Rattus norvegicus GN=Tmem259 PE=1 SV=2	tr|F1LPC5|F1LPC5_RAT	0.000075
tr|M0R919|M0R919_RAT Prefoldin subunit 3 OS=Rattus norvegicus GN=Vbp1 PE=1 SV=2	tr|M0R919|M0R919_RAT	0.000075
sp|Q5I0L3|SYYM_RAT Tyrosine--tRNA ligase, mitochondrial OS=Rattus norvegicus GN=Yars2 PE=2 SV=1	sp|Q5I0L3|SYYM_RAT	0.00005
sp|Q9WUF4|VAMP8_RAT Vesicle-associated membrane protein 8 OS=Rattus norvegicus GN=Vamp8 PE=1 SV=1	sp|Q9WUF4|VAMP8_RAT (+1)	0.000075
sp|Q5M819|SERB_RAT Phosphoserine phosphatase OS=Rattus norvegicus GN=Psph PE=2 SV=1	sp|Q5M819|SERB_RAT	0.00005
sp|Q9JMI1|AACS_RAT Acetoacetyl-CoA synthetase OS=Rattus norvegicus GN=Aacs PE=1 SV=1	sp|Q9JMI1|AACS_RAT	0.00005
Cluster of tr|R9PXT6|R9PXT6_RAT Focal adhesion kinase 1 OS=Rattus norvegicus GN=Ptk2 PE=1 SV=2 (tr|R9PXT6|R9PXT6_RAT)	tr|R9PXT6|R9PXT6_RAT	0.0001
tr|R9PXT6|R9PXT6_RAT Focal adhesion kinase 1 OS=Rattus norvegicus GN=Ptk2 PE=1 SV=2	tr|R9PXT6|R9PXT6_RAT	0.0001
sp|Q6TEK3|VKORL_RAT Vitamin K epoxide reductase complex subunit 1-like protein 1 OS=Rattus norvegicus GN=Vkorc1l1 PE=1 SV=1	sp|Q6TEK3|VKORL_RAT	0.000075
Cluster of tr|D3ZWS0|D3ZWS0_RAT Protein Scrib OS=Rattus norvegicus GN=Scrib PE=1 SV=1 (tr|D3ZWS0|D3ZWS0_RAT)	tr|D3ZWS0|D3ZWS0_RAT	0.00005
tr|D3ZWS0|D3ZWS0_RAT Protein Scrib OS=Rattus norvegicus GN=Scrib PE=1 SV=1	tr|D3ZWS0|D3ZWS0_RAT	0.00005
tr|D3ZXX8|D3ZXX8_RAT Protein Ndufa4l2 OS=Rattus norvegicus GN=Ndufa4l2 PE=4 SV=3	tr|D3ZXX8|D3ZXX8_RAT	0.000075
sp|Q6PEC4|SKP1_RAT S-phase kinase-associated protein 1 OS=Rattus norvegicus GN=Skp1 PE=1 SV=3	sp|Q6PEC4|SKP1_RAT (+1)	0.000075
sp|Q5RK00|RM46_RAT 39S ribosomal protein L46, mitochondrial OS=Rattus norvegicus GN=Mrpl46 PE=2 SV=1	sp|Q5RK00|RM46_RAT	0.000075
Cluster of sp|P26819|ARBK2_RAT Beta-adrenergic receptor kinase 2 OS=Rattus norvegicus GN=Adrbk2 PE=2 SV=1 (sp|P26819|ARBK2_RAT)	sp|P26819|ARBK2_RAT [3]	0.00005
sp|P26819|ARBK2_RAT Beta-adrenergic receptor kinase 2 OS=Rattus norvegicus GN=Adrbk2 PE=2 SV=1	sp|P26819|ARBK2_RAT	0.00005
sp|P26817|ARBK1_RAT Beta-adrenergic receptor kinase 1 OS=Rattus norvegicus GN=Adrbk1 PE=1 SV=1	sp|P26817|ARBK1_RAT (+1)	0.000025
sp|B5DFN3|UQCC2_RAT Ubiquinol-cytochrome-c reductase complex assembly factor 2 OS=Rattus norvegicus GN=Uqcc2 PE=2 SV=1	sp|B5DFN3|UQCC2_RAT (+1)	0.000075
tr|Q76MV3|Q76MV3_RAT Cytochrome C oxidase assembly protein COX17 OS=Rattus norvegicus GN=Cox17 PE=1 SV=1	tr|Q76MV3|Q76MV3_RAT	0.00005
Cluster of sp|O55043|ARHG7_RAT Rho guanine nucleotide exchange factor 7 OS=Rattus norvegicus GN=Arhgef7 PE=1 SV=1 (sp|O55043|ARHG7_RAT)	sp|O55043|ARHG7_RAT [2]	0.0001
sp|O55043|ARHG7_RAT Rho guanine nucleotide exchange factor 7 OS=Rattus norvegicus GN=Arhgef7 PE=1 SV=1	sp|O55043|ARHG7_RAT (+1)	0.0001
Cluster of tr|F1LMJ8|F1LMJ8_RAT Calcium uptake protein 2, mitochondrial OS=Rattus norvegicus GN=Micu2 PE=1 SV=1 (tr|F1LMJ8|F1LMJ8_RAT)	tr|F1LMJ8|F1LMJ8_RAT	0.00005
tr|F1LMJ8|F1LMJ8_RAT Calcium uptake protein 2, mitochondrial OS=Rattus norvegicus GN=Micu2 PE=1 SV=1	tr|F1LMJ8|F1LMJ8_RAT	0.00005
sp|B2RYM5|BRCC3_RAT Lys-63-specific deubiquitinase BRCC36 OS=Rattus norvegicus GN=Brcc3 PE=2 SV=1	sp|B2RYM5|BRCC3_RAT	0.000025
sp|B4F7E8|NIBL1_RAT Niban-like protein 1 OS=Rattus norvegicus GN=Fam129b PE=1 SV=1	sp|B4F7E8|NIBL1_RAT	0.000075
sp|D3ZW55|ITPA_RAT Inosine triphosphate pyrophosphatase OS=Rattus norvegicus GN=Itpa PE=3 SV=1	sp|D3ZW55|ITPA_RAT	0.000075
sp|P07151|B2MG_RAT Beta-2-microglobulin OS=Rattus norvegicus GN=B2m PE=1 SV=1	sp|P07151|B2MG_RAT	0.000075
sp|P27615|SCRB2_RAT Lysosome membrane protein 2 OS=Rattus norvegicus GN=Scarb2 PE=1 SV=2	sp|P27615|SCRB2_RAT	0.00005
sp|P49911|AN32A_RAT Acidic leucine-rich nuclear phosphoprotein 32 family member A OS=Rattus norvegicus GN=Anp32a PE=2 SV=1	sp|P49911|AN32A_RAT (+2)	0.000075
sp|P54319|PLAP_RAT Phospholipase A-2-activating protein OS=Rattus norvegicus GN=Plaa PE=1 SV=3	sp|P54319|PLAP_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|P55770|NH2L1_RAT NHP2-like protein 1 OS=Rattus norvegicus GN=Snu13 PE=2 SV=4	sp|P55770|NH2L1_RAT	0.00005
sp|P58200|VTI1B_RAT Vesicle transport through interaction with t-SNAREs homolog 1B OS=Rattus norvegicus GN=Vti1b PE=1 SV=2	sp|P58200|VTI1B_RAT (+1)	0.0001
sp|P58405-2|STRN3_RAT Isoform 2 of Striatin-3 OS=Rattus norvegicus GN=Strn3	sp|P58405-2|STRN3_RAT (+2)	0.000075
sp|P61212|ARL1_RAT ADP-ribosylation factor-like protein 1 OS=Rattus norvegicus GN=Arl1 PE=1 SV=1	sp|P61212|ARL1_RAT	0.000075
sp|P86410|RLGPB_RAT Ral GTPase-activating protein subunit beta OS=Rattus norvegicus GN=Ralgapb PE=1 SV=1	sp|P86410|RLGPB_RAT (+3)	0.000075
sp|P97710|SHPS1_RAT Tyrosine-protein phosphatase non-receptor type substrate 1 OS=Rattus norvegicus GN=Sirpa PE=1 SV=1	sp|P97710|SHPS1_RAT (+1)	0.000075
sp|Q00972|BCKD_RAT [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial OS=Rattus norvegicus GN=Bckdk PE=1 SV=2	sp|Q00972|BCKD_RAT (+1)	0.000075
sp|Q07205|IF5_RAT Eukaryotic translation initiation factor 5 OS=Rattus norvegicus GN=Eif5 PE=1 SV=1	sp|Q07205|IF5_RAT	0.00005
sp|Q5FVN0|MBOA5_RAT Lysophospholipid acyltransferase 5 OS=Rattus norvegicus GN=Lpcat3 PE=2 SV=1	sp|Q5FVN0|MBOA5_RAT	0.000075
sp|Q5RKI8|ABCB8_RAT ATP-binding cassette sub-family B member 8, mitochondrial OS=Rattus norvegicus GN=Abcb8 PE=2 SV=1	sp|Q5RKI8|ABCB8_RAT (+1)	0.000075
sp|Q5XI01|LARP7_RAT La-related protein 7 OS=Rattus norvegicus GN=Larp7 PE=1 SV=2	sp|Q5XI01|LARP7_RAT (+1)	0.00005
sp|Q62780|DDX46_RAT Probable ATP-dependent RNA helicase DDX46 OS=Rattus norvegicus GN=Ddx46 PE=1 SV=1	sp|Q62780|DDX46_RAT	0.000075
sp|Q63537-2|SYN2_RAT Isoform IIb of Synapsin-2 OS=Rattus norvegicus GN=Syn2	sp|Q63537-2|SYN2_RAT (+2)	0.000075
sp|Q64380|SARDH_RAT Sarcosine dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Sardh PE=1 SV=2	sp|Q64380|SARDH_RAT (+1)	0.000025
sp|Q6AYA6|CQ062_RAT Uncharacterized protein C17orf62 homolog OS=Rattus norvegicus PE=1 SV=1	sp|Q6AYA6|CQ062_RAT	0.000075
sp|Q6EV70|OFUT1_RAT GDP-fucose protein O-fucosyltransferase 1 OS=Rattus norvegicus GN=Pofut1 PE=2 SV=1	sp|Q6EV70|OFUT1_RAT	0.0001
sp|Q8K4F7|DCPS_RAT m7GpppX diphosphatase OS=Rattus norvegicus GN=Dcps PE=2 SV=1	sp|Q8K4F7|DCPS_RAT (+1)	0.00005
sp|Q9JHW5|VAMP7_RAT Vesicle-associated membrane protein 7 OS=Rattus norvegicus GN=Vamp7 PE=1 SV=1	sp|Q9JHW5|VAMP7_RAT	0.000075
sp|Q9WTW8|S23A2_RAT Solute carrier family 23 member 2 OS=Rattus norvegicus GN=Slc23a2 PE=1 SV=2	sp|Q9WTW8|S23A2_RAT	0.00005
sp|Q9WUS0|KAD4_RAT Adenylate kinase 4, mitochondrial OS=Rattus norvegicus GN=Ak4 PE=2 SV=1	sp|Q9WUS0|KAD4_RAT	0.00005
sp|Q9Z0J5-2|TRXR2_RAT Isoform 2 of Thioredoxin reductase 2, mitochondrial OS=Rattus norvegicus GN=Txnrd2	sp|Q9Z0J5-2|TRXR2_RAT (+3)	0.000075
tr|A0A0G2JSM1|A0A0G2JSM1_RAT Ratsg2, isoform CRA_b OS=Rattus norvegicus GN=Vimp PE=1 SV=1	tr|A0A0G2JSM1|A0A0G2JSM1_RAT (+1)	0.000075
tr|A0A0G2JVC2|A0A0G2JVC2_RAT Protein Scyl2 OS=Rattus norvegicus GN=Scyl2 PE=1 SV=1	tr|A0A0G2JVC2|A0A0G2JVC2_RAT (+1)	0.0001
tr|A0A0G2K466|A0A0G2K466_RAT Oxidoreductase NAD-binding domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Oxnad1 PE=1 SV=1	tr|A0A0G2K466|A0A0G2K466_RAT (+1)	0.0001
tr|A0A0G2K4T8|A0A0G2K4T8_RAT Mitochondrial intermediate peptidase OS=Rattus norvegicus GN=Mipep PE=1 SV=1	tr|A0A0G2K4T8|A0A0G2K4T8_RAT	0.000025
tr|A0A0G2K5L2|A0A0G2K5L2_RAT Protein LOC100911440 OS=Rattus norvegicus GN=LOC100911440 PE=1 SV=1	tr|A0A0G2K5L2|A0A0G2K5L2_RAT	0.000025
tr|A0A0G2KAT3|A0A0G2KAT3_RAT Platelet-derived growth factor subunit A OS=Rattus norvegicus GN=Rpa1 PE=1 SV=1	tr|A0A0G2KAT3|A0A0G2KAT3_RAT	0.00005
tr|B2GUY8|B2GUY8_RAT Protein Slc25a17 OS=Rattus norvegicus GN=Slc25a17 PE=1 SV=1	tr|B2GUY8|B2GUY8_RAT	0.00005
tr|B2RYJ3|B2RYJ3_RAT Protein Cul4a OS=Rattus norvegicus GN=Cul4a PE=1 SV=1	tr|B2RYJ3|B2RYJ3_RAT	0.0001
tr|B2RYK4|B2RYK4_RAT Similar to RIKEN cDNA 1200007B05 OS=Rattus norvegicus GN=Slc25a46 PE=1 SV=1	tr|B2RYK4|B2RYK4_RAT	0.000075
tr|B5DF86|B5DF86_RAT Component of oligomeric golgi complex 8 OS=Rattus norvegicus GN=Cog8 PE=1 SV=1	tr|B5DF86|B5DF86_RAT	0.000075
tr|D3ZGW2|D3ZGW2_RAT Protein Ap1g2 OS=Rattus norvegicus GN=Ap1g2 PE=1 SV=1	tr|D3ZGW2|D3ZGW2_RAT	0.000075
tr|D3ZJ01|D3ZJ01_RAT Protein RGD1307235 OS=Rattus norvegicus GN=RGD1307235 PE=1 SV=1	tr|D3ZJ01|D3ZJ01_RAT	0.000025
tr|D3ZT01|D3ZT01_RAT Protein Cog2 OS=Rattus norvegicus GN=Cog2 PE=1 SV=1	tr|D3ZT01|D3ZT01_RAT	0.00005
tr|D3ZW08|D3ZW08_RAT Adenylosuccinate lyase OS=Rattus norvegicus GN=Adsl PE=1 SV=1	tr|D3ZW08|D3ZW08_RAT	0.00005
tr|D3ZX38|D3ZX38_RAT Prefoldin 1 (Predicted) OS=Rattus norvegicus GN=Pfdn1 PE=1 SV=1	tr|D3ZX38|D3ZX38_RAT	0.00005
tr|D3ZXH7|D3ZXH7_RAT Protein Alyref OS=Rattus norvegicus GN=Alyref PE=1 SV=1	tr|D3ZXH7|D3ZXH7_RAT	0.000075
tr|D3ZYL4|D3ZYL4_RAT Mitochondrial ribosomal protein L50 (Predicted) OS=Rattus norvegicus GN=Mrpl50 PE=1 SV=1	tr|D3ZYL4|D3ZYL4_RAT	0.000075
tr|D4A416|D4A416_RAT Protein Clptm1l OS=Rattus norvegicus GN=Clptm1l PE=1 SV=1	tr|D4A416|D4A416_RAT	0.000075
tr|D4A9Z6|D4A9Z6_RAT Mitochondrial ribosomal protein S35 (Predicted) OS=Rattus norvegicus GN=Mrps35 PE=1 SV=1	tr|D4A9Z6|D4A9Z6_RAT	0.00005
tr|F1LNY0|F1LNY0_RAT Hypoxanthine-guanine phosphoribosyltransferase OS=Rattus norvegicus GN=Hprt1 PE=1 SV=3	tr|F1LNY0|F1LNY0_RAT	0.000025
tr|F1LPS8|F1LPS8_RAT Transcriptional activator protein Pur-alpha OS=Rattus norvegicus GN=Pura PE=1 SV=3	tr|F1LPS8|F1LPS8_RAT	0.000025
tr|F1LRQ6|F1LRQ6_RAT CDC23 (Cell division cycle 23, yeast, homolog), isoform CRA_b OS=Rattus norvegicus GN=Cdc23 PE=1 SV=2	tr|F1LRQ6|F1LRQ6_RAT	0.000075
tr|F1LTD0|F1LTD0_RAT Protein Gpr89b OS=Rattus norvegicus GN=Gpr89b PE=1 SV=2	tr|F1LTD0|F1LTD0_RAT	0.000075
tr|F7ENH8|F7ENH8_RAT Histone deacetylase OS=Rattus norvegicus GN=Hdac2 PE=1 SV=1	tr|F7ENH8|F7ENH8_RAT	0.0001
tr|G3V7N6|G3V7N6_RAT Protein LOC103689982 OS=Rattus norvegicus GN=LOC103689982 PE=1 SV=1	tr|G3V7N6|G3V7N6_RAT	0.000075
tr|G3V8E2|G3V8E2_RAT Protein Strip1 OS=Rattus norvegicus GN=Strip1 PE=1 SV=2	tr|G3V8E2|G3V8E2_RAT	0.000075
tr|M0RAM5|M0RAM5_RAT Glutathione peroxidase OS=Rattus norvegicus GN=Gpx1 PE=1 SV=1	tr|M0RAM5|M0RAM5_RAT	0.00005
tr|Q32Q54|Q32Q54_RAT Protein Uqcc1 OS=Rattus norvegicus GN=Uqcc1 PE=1 SV=1	tr|Q32Q54|Q32Q54_RAT	0.000075
tr|Q4QR73|Q4QR73_RAT DnaJ (Hsp40) homolog, subfamily A, member 4 OS=Rattus norvegicus GN=Dnaja4 PE=1 SV=1	tr|Q4QR73|Q4QR73_RAT	0.00005
tr|Q5XI39|Q5XI39_RAT Crystallin, zeta (Quinone reductase)-like 1 OS=Rattus norvegicus GN=Cryzl1 PE=1 SV=1	tr|Q5XI39|Q5XI39_RAT	0.00005
tr|Q6MG85|Q6MG85_RAT 1-acyl-sn-glycerol-3-phosphate acyltransferase OS=Rattus norvegicus GN=Agpat1 PE=1 SV=1	tr|Q6MG85|Q6MG85_RAT	0.0001
tr|R9PXV9|R9PXV9_RAT Protein phosphatase methylesterase 1 OS=Rattus norvegicus GN=Ppme1 PE=1 SV=2	tr|R9PXV9|R9PXV9_RAT	0.00005
sp|B0BN56|RT31_RAT 28S ribosomal protein S31, mitochondrial OS=Rattus norvegicus GN=Mrps31 PE=2 SV=1	sp|B0BN56|RT31_RAT	0.000025
sp|P17702|RL28_RAT 60S ribosomal protein L28 OS=Rattus norvegicus GN=Rpl28 PE=1 SV=4	sp|P17702|RL28_RAT (+3)	0.000075
sp|P17955|NUP62_RAT Nuclear pore glycoprotein p62 OS=Rattus norvegicus GN=Nup62 PE=1 SV=1	sp|P17955|NUP62_RAT	0.000075
sp|Q5U1Z2|TPPC3_RAT Trafficking protein particle complex subunit 3 OS=Rattus norvegicus GN=Trappc3 PE=2 SV=1	sp|Q5U1Z2|TPPC3_RAT	0.000075
sp|Q9JJ54-2|HNRPD_RAT Isoform 2 of Heterogeneous nuclear ribonucleoprotein D0 OS=Rattus norvegicus GN=Hnrnpd	sp|Q9JJ54-2|HNRPD_RAT (+3)	0.00005
sp|Q9Z1I6|ARHG1_RAT Rho guanine nucleotide exchange factor 1 OS=Rattus norvegicus GN=Arhgef1 PE=2 SV=1	sp|Q9Z1I6|ARHG1_RAT (+4)	0.000025
tr|A0A0A0MXV4|A0A0A0MXV4_RAT Protein Ace3 OS=Rattus norvegicus GN=Ace3 PE=1 SV=1	tr|A0A0A0MXV4|A0A0A0MXV4_RAT	0.00005
tr|A0A0G2K2V5|A0A0G2K2V5_RAT Protein Exoc1 OS=Rattus norvegicus GN=Exoc1 PE=1 SV=1	tr|A0A0G2K2V5|A0A0G2K2V5_RAT	0.000025
tr|A0A0G2K7Q7|A0A0G2K7Q7_RAT Insulin-degrading enzyme OS=Rattus norvegicus GN=Ide PE=1 SV=1	tr|A0A0G2K7Q7|A0A0G2K7Q7_RAT	0.000075
tr|A0A0G2K9E5|A0A0G2K9E5_RAT Protein Lars2 OS=Rattus norvegicus GN=Lars2 PE=1 SV=1	tr|A0A0G2K9E5|A0A0G2K9E5_RAT	0.00005
tr|B4F778|B4F778_RAT Protein Rfc4 OS=Rattus norvegicus GN=Rfc4 PE=1 SV=1	tr|B4F778|B4F778_RAT	0.000075
tr|D3Z9L0|D3Z9L0_RAT Protein Agk OS=Rattus norvegicus GN=Agk PE=1 SV=2	tr|D3Z9L0|D3Z9L0_RAT	0.000075

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZBC7|D3ZBC7_RAT Protein Dhrs13 OS=Rattus norvegicus GN=Dhrs13 PE=1 SV=3	tr|D3ZBC7|D3ZBC7_RAT	0.00005
tr|D3ZIN7|D3ZIN7_RAT Mitochondrial ribosomal protein S23 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrps23 PE=1 SV=1	tr|D3ZIN7|D3ZIN7_RAT	0
tr|F1M8E6|F1M8E6_RAT DNA ligase OS=Rattus norvegicus GN=LOC100911727 PE=3 SV=2	tr|F1M8E6|F1M8E6_RAT (+1)	0.00005
tr|F1MAB8|F1MAB8_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif11 PE=1 SV=1	tr|F1MAB8|F1MAB8_RAT	0.000075
tr|F7EPZ4|F7EPZ4_RAT Protein Dis3 OS=Rattus norvegicus GN=Dis3 PE=1 SV=1	tr|F7EPZ4|F7EPZ4_RAT	0.000075
tr|F7F3Z1|F7F3Z1_RAT Lectin, mannose-binding 2-like (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Lman2l PE=1 SV=2	tr|F7F3Z1|F7F3Z1_RAT	0.00005
tr|G3V8U9|G3V8U9_RAT Proteasome subunit beta type OS=Rattus norvegicus GN=Psmb4 PE=1 SV=2	tr|G3V8U9|G3V8U9_RAT	0.00005
tr|Q3MHS7|Q3MHS7_RAT GDP-mannose 4, 6-dehydratase OS=Rattus norvegicus GN=Gmds PE=2 SV=1	tr|Q3MHS7|Q3MHS7_RAT	0.00005
tr|Q5PQK2|Q5PQK2_RAT Fusion, derived from t(1216) malignant liposarcoma (Human) OS=Rattus norvegicus GN=Fus PE=1 SV=1	tr|Q5PQK2|Q5PQK2_RAT	0.000075
tr|Q5XIG9|Q5XIG9_RAT Mitochondrial protein 18 kDa OS=Rattus norvegicus GN=Mtfp1 PE=1 SV=1	tr|Q5XIG9|Q5XIG9_RAT	0.000075
tr|Q641Z9|Q641Z9_RAT Protein Sdhc OS=Rattus norvegicus GN=Sdhc PE=1 SV=1	tr|Q641Z9|Q641Z9_RAT	0.00005
sp|P58366|ANKH_RAT Progressive ankylosis protein homolog OS=Rattus norvegicus GN=Ankh PE=2 SV=1	sp|P58366|ANKH_RAT (+1)	0.00005
tr|G3V9S9|G3V9S9_RAT Protein Sec24d OS=Rattus norvegicus GN=Sec24d PE=1 SV=3	tr|G3V9S9|G3V9S9_RAT	0.000025
sp|B2GV24|UFL1_RAT E3 UFM1-protein ligase 1 OS=Rattus norvegicus GN=Ufl1 PE=1 SV=1	sp|B2GV24|UFL1_RAT (+1)	0.000075
sp|O54747|DPOD1_RAT DNA polymerase delta catalytic subunit OS=Rattus norvegicus GN=Pold1 PE=2 SV=1	sp|O54747|DPOD1_RAT (+1)	0.00005
sp|P03889|NU1M_RAT NADH-ubiquinone oxidoreductase chain 1 OS=Rattus norvegicus GN=Mtnd1 PE=1 SV=3	sp|P03889|NU1M_RAT	0.0001
sp|P23640|RB27A_RAT Ras-related protein Rab-27A OS=Rattus norvegicus GN=Rab27a PE=1 SV=1	sp|P23640|RB27A_RAT	0.00005
tr|D3ZUZ4|D3ZUZ4_RAT Protein Fam20b OS=Rattus norvegicus GN=Fam20b PE=1 SV=1	tr|D3ZUZ4|D3ZUZ4_RAT	0.000075
tr|Q5RKG9|Q5RKG9_RAT Eukaryotic translation initiation factor 4B OS=Rattus norvegicus GN=Eif4b PE=1 SV=1	tr|Q5RKG9|Q5RKG9_RAT	0.00005
tr|Q6QI86|Q6QI86_RAT Haloacid dehalogenase-like hydrolase domain-containing protein 2 OS=Rattus norvegicus GN=Hdhd2 PE=1 SV=1	tr|Q6QI86|Q6QI86_RAT	0.00005
tr|G3V7Y3|G3V7Y3_RAT ATP synthase subunit delta, mitochondrial OS=Rattus norvegicus GN=Atp5d PE=1 SV=1	tr|G3V7Y3|G3V7Y3_RAT	0.000075
sp|Q6AXS3|DEK_RAT Protein DEK OS=Rattus norvegicus GN=Dek PE=1 SV=1	sp|Q6AXS3|DEK_RAT	0.00005
sp|Q6P6S9|ENTP5_RAT Ectonucleoside triphosphate diphosphohydrolase 5 OS=Rattus norvegicus GN=Entpd5 PE=2 SV=1	sp|Q6P6S9|ENTP5_RAT (+1)	0.000075
sp|Q7M0E7|RM14_RAT 39S ribosomal protein L14, mitochondrial OS=Rattus norvegicus GN=Mrpl14 PE=1 SV=2	sp|Q7M0E7|RM14_RAT	0.0001
tr|F1LPV8|F1LPV8_RAT Succinyl-CoA ligase subunit beta OS=Rattus norvegicus GN=Suclg2 PE=1 SV=2	tr|F1LPV8|F1LPV8_RAT	0.00005
tr|Q6IMA8|Q6IMA8_RAT ADP-ribosylation factor-like 10 OS=Rattus norvegicus GN=Arl10 PE=2 SV=1	tr|Q6IMA8|Q6IMA8_RAT	0.000075
sp|O54924|EXOC8_RAT Exocyst complex component 8 OS=Rattus norvegicus GN=Exoc8 PE=1 SV=1	sp|O54924|EXOC8_RAT	0.000025
tr|D3ZMR9|D3ZMR9_RAT Mitochondrial ribosomal protein L21 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrpl21 PE=1 SV=1	tr|D3ZMR9|D3ZMR9_RAT	0.000075
tr|D4AA31|D4AA31_RAT Protein Prcp OS=Rattus norvegicus GN=Prcp PE=1 SV=1	tr|D4AA31|D4AA31_RAT	0.00005
sp|Q63259|PTPRN_RAT Receptor-type tyrosine-protein phosphatase-like N OS=Rattus norvegicus GN=Ptprn PE=1 SV=2	sp|Q63259|PTPRN_RAT	0.000075
tr|D3ZLT1|D3ZLT1_RAT NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 7 (Predicted) OS=Rattus norvegicus GN=Ndufb7 PE=1 SV=1	tr|D3ZLT1|D3ZLT1_RAT	0.00005
tr|F1LMA5|F1LMA5_RAT Protein Fv1 OS=Rattus norvegicus GN=Fv1 PE=4 SV=1	tr|F1LMA5|F1LMA5_RAT	0.000075
sp|Q63616|VP33B_RAT Vacuolar protein sorting-associated protein 33B OS=Rattus norvegicus GN=Vps33b PE=2 SV=1	sp|Q63616|VP33B_RAT	0.000075
tr|A0A0G2K1U9|A0A0G2K1U9_RAT Protein Irgq OS=Rattus norvegicus GN=Irgq PE=1 SV=1	tr|A0A0G2K1U9|A0A0G2K1U9_RAT	0.00005
tr|A0A0G2K6R9|A0A0G2K6R9_RAT Protein Ank2 OS=Rattus norvegicus GN=Ank2 PE=1 SV=1	tr|A0A0G2K6R9|A0A0G2K6R9_RAT (+1)	0.000075
tr|B0BN51|B0BN51_RAT Small nuclear ribonucleoprotein-associated protein OS=Rattus norvegicus GN=Snrpb PE=2 SV=1	tr|B0BN51|B0BN51_RAT	0.00005
sp|Q6AYY8|ACATN_RAT Acetyl-coenzyme A transporter 1 OS=Rattus norvegicus GN=Slc33a1 PE=2 SV=1	sp|Q6AYY8|ACATN_RAT	0.0001
tr|G3V7I8|G3V7I8_RAT RCG57812, isoform CRA_b OS=Rattus norvegicus GN=Slk PE=1 SV=1	tr|G3V7I8|G3V7I8_RAT	0.00005
sp|Q63635|STX6_RAT Syntaxin-6 OS=Rattus norvegicus GN=Stx6 PE=1 SV=1	sp|Q63635|STX6_RAT	0.00005
tr|A0A0G2K1G0|A0A0G2K1G0_RAT Protein Bclaf1 OS=Rattus norvegicus GN=Bclaf1 PE=1 SV=1	tr|A0A0G2K1G0|A0A0G2K1G0_RAT (+1)	0.000025
sp|Q9NQR8|NDUF4_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4 OS=Rattus norvegicus GN=Ndufaf4 PE=1 SV=1	sp|Q9NQR8|NDUF4_RAT	0.000025
Cluster of tr|D3ZES7|D3ZES7_RAT Protein Plxna4 OS=Rattus norvegicus GN=Plxna4 PE=4 SV=1 (tr|D3ZES7|D3ZES7_RAT)	tr|D3ZES7|D3ZES7_RAT	0.00005
tr|D3ZES7|D3ZES7_RAT Protein Plxna4 OS=Rattus norvegicus GN=Plxna4 PE=4 SV=1	tr|D3ZES7|D3ZES7_RAT	0.00005
sp|Q9QX69|LANC1_RAT LanC-like protein 1 OS=Rattus norvegicus GN=Lancl1 PE=1 SV=2	sp|Q9QX69|LANC1_RAT	0.000075
sp|O08679|MARK2_RAT Serine/threonine-protein kinase MARK2 OS=Rattus norvegicus GN=Mark2 PE=1 SV=1	sp|O08679|MARK2_RAT (+1)	0.00005
sp|Q99JE6|PLCB3_RAT 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3 OS=Rattus norvegicus GN=Plcb3 PE=1 SV=2	sp|Q99JE6|PLCB3_RAT (+1)	0.00005
tr|D3ZKT0|D3ZKT0_RAT Phosphatidate cytidylyltransferase, mitochondrial OS=Rattus norvegicus GN=Tamm41 PE=1 SV=1	tr|D3ZKT0|D3ZKT0_RAT	0.00005
sp|Q07803|EFGM_RAT Elongation factor G, mitochondrial OS=Rattus norvegicus GN=Gfm1 PE=1 SV=2	sp|Q07803|EFGM_RAT (+1)	0.00005
tr|Q68G11|Q68G11_RAT Casein kinase II subunit beta OS=Rattus norvegicus GN=Csnk2b PE=1 SV=2	tr|Q68G11|Q68G11_RAT	0.00005
tr|B2GUZ9|B2GUZ9_RAT Fam49b protein OS=Rattus norvegicus GN=Fam49b PE=1 SV=1	tr|B2GUZ9|B2GUZ9_RAT	0.000075
tr|B1WC85|B1WC85_RAT Protein Wdr92 OS=Rattus norvegicus GN=Wdr92 PE=1 SV=1	tr|B1WC85|B1WC85_RAT	0.00005
sp|Q63362|NDUA5_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5 OS=Rattus norvegicus GN=Ndufa5 PE=1 SV=3	sp|Q63362|NDUA5_RAT	0.00005
sp|Q8VII6-2|CTL1_RAT Isoform 2 of Choline transporter-like protein 1 OS=Rattus norvegicus GN=Slc44a1	sp|Q8VII6-2|CTL1_RAT	0.00005
sp|O89044|PRI2_RAT DNA primase large subunit OS=Rattus norvegicus GN=Prim2 PE=2 SV=1	sp|O89044|PRI2_RAT	0.00005
sp|Q9WU61|CLCC1_RAT Chloride channel CLIC-like protein 1 OS=Rattus norvegicus GN=Clcc1 PE=1 SV=1	sp|Q9WU61|CLCC1_RAT	0.00005
sp|Q62931|GOSR1_RAT Golgi SNAP receptor complex member 1 OS=Rattus norvegicus GN=Gosr1 PE=1 SV=1	sp|Q62931|GOSR1_RAT	0.00005
sp|Q66HA5-2|C2D1A_RAT Isoform 2 of Coiled-coil and C2 domain-containing protein 1A OS=Rattus norvegicus GN=Cc2d1a	sp|Q66HA5-2|C2D1A_RAT (+1)	0.00005
tr|A0A0G2KBC0|A0A0G2KBC0_RAT Protein LOC100910478 OS=Rattus norvegicus GN=LOC100910478 PE=1 SV=1	tr|A0A0G2KBC0|A0A0G2KBC0_RAT (+1)	0.00005
sp|P30823|CTR1_RAT High affinity cationic amino acid transporter 1 OS=Rattus norvegicus GN=Slc7a1 PE=2 SV=1	sp|P30823|CTR1_RAT (+1)	0.000075
sp|P50904|RASA1_RAT Ras GTPase-activating protein 1 OS=Rattus norvegicus GN=Rasa1 PE=3 SV=1	sp|P50904|RASA1_RAT (+1)	0.000075
sp|P62963|PROF1_RAT Profilin-1 OS=Rattus norvegicus GN=Pfn1 PE=1 SV=2	sp|P62963|PROF1_RAT	0.00005
sp|Q06000|LIPL_RAT Lipoprotein lipase OS=Rattus norvegicus GN=Lpl PE=1 SV=1	sp|Q06000|LIPL_RAT	0.00005
sp|Q5XI73|GDIR1_RAT Rho GDP-dissociation inhibitor 1 OS=Rattus norvegicus GN=Arhgdia PE=1 SV=1	sp|Q5XI73|GDIR1_RAT	0.000075
sp|Q5XID7|ARMX3_RAT Armadillo repeat-containing X-linked protein 3 OS=Rattus norvegicus GN=Armcx3 PE=1 SV=1	sp|Q5XID7|ARMX3_RAT (+1)	0.000075
sp|Q5XIF5|DEGS1_RAT Sphingolipid delta(4)-desaturase DES1 OS=Rattus norvegicus GN=Degs1 PE=2 SV=1	sp|Q5XIF5|DEGS1_RAT	0.000075

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q66H15|RMD3_RAT Regulator of microtubule dynamics protein 3 OS=Rattus norvegicus GN=Rmdn3 PE=1 SV=1	sp|Q66H15|RMD3_RAT	0.00005
sp|Q8R4Z9|MFN1_RAT Mitofusin-1 OS=Rattus norvegicus GN=Mfn1 PE=1 SV=1	sp|Q8R4Z9|MFN1_RAT (+2)	0.00005
sp|Q91V33|KHDR1_RAT KH domain-containing, RNA-binding, signal transduction-associated protein 1 OS=Rattus norvegicus GN=Khdrbs1 PE=1 SV=1	sp|Q91V33|KHDR1_RAT	0.00005
sp|Q9WTV5|PSMD9_RAT 26S proteasome non-ATPase regulatory subunit 9 OS=Rattus norvegicus GN=Psmd9 PE=1 SV=1	sp|Q9WTV5|PSMD9_RAT (+1)	0.000075
tr|A0A0G2JZC3|A0A0G2JZC3_RAT Protein Mrps36 OS=Rattus norvegicus GN=Mrps36 PE=1 SV=1	tr|A0A0G2JZC3|A0A0G2JZC3_RAT (+1)	0.00005
tr|A0A0G2K9G3|A0A0G2K9G3_RAT Protein Mrps24 OS=Rattus norvegicus GN=Mrps24 PE=1 SV=1	tr|A0A0G2K9G3|A0A0G2K9G3_RAT (+1)	0.000075
tr|B0BNB0|B0BNB0_RAT Golt1b protein OS=Rattus norvegicus GN=Golt1b PE=1 SV=1	tr|B0BNB0|B0BNB0_RAT	0.000075
tr|B2RYS0|B2RYS0_RAT Cox7a2 protein OS=Rattus norvegicus GN=Cox7a2 PE=1 SV=1	tr|B2RYS0|B2RYS0_RAT	0.000075
tr|D3Z865|D3Z865_RAT Mannose-P-dolichol utilization defect 1 OS=Rattus norvegicus GN=Mpdu1 PE=1 SV=1	tr|D3Z865|D3Z865_RAT	0.00005
tr|D3ZR49|D3ZR49_RAT alpha-1,2-Mannosidase OS=Rattus norvegicus GN=Man1a2 PE=1 SV=3	tr|D3ZR49|D3ZR49_RAT	0.00005
tr|D3ZRH1|D3ZRH1_RAT Protein Oxa1l OS=Rattus norvegicus GN=Oxa1l PE=1 SV=1	tr|D3ZRH1|D3ZRH1_RAT	0.000075
tr|D4ACA5|D4ACA5_RAT Protein LOC100911130 OS=Rattus norvegicus GN=LOC100911130 PE=1 SV=1	tr|D4ACA5|D4ACA5_RAT	0.00005
tr|E9PU42|E9PU42_RAT Down syndrome critical region gene 3 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Dscr3 PE=1 SV=2	tr|E9PU42|E9PU42_RAT	0.00005
tr|F7F350|F7F350_RAT Protein Syap1 OS=Rattus norvegicus GN=Syap1 PE=1 SV=1	tr|F7F350|F7F350_RAT	0.00005
tr|G3V6P6|G3V6P6_RAT RNA binding motif protein 3, isoform CRA_a OS=Rattus norvegicus GN=Rbm3 PE=1 SV=1	tr|G3V6P6|G3V6P6_RAT	0.000075
tr|Q5RJK5|Q5RJK5_RAT Chromobox homolog 3 (HP1 gamma homolog, Drosophila) OS=Rattus norvegicus GN=Cbx3 PE=1 SV=1	tr|Q5RJK5|Q5RJK5_RAT	0.00005
tr|Q5U3Z5|Q5U3Z5_RAT Bri3 binding protein OS=Rattus norvegicus GN=Bri3bp PE=1 SV=1	tr|Q5U3Z5|Q5U3Z5_RAT	0.0001
sp|Q02563|SV2A_RAT Synaptic vesicle glycoprotein 2A OS=Rattus norvegicus GN=Sv2a PE=1 SV=2	sp|Q02563|SV2A_RAT	0.00005
sp|Q4V8K5|BROX_RAT BRO1 domain-containing protein BROX OS=Rattus norvegicus GN=Brox PE=2 SV=1	sp|Q4V8K5|BROX_RAT	0.000075
sp|Q4V8K2|CTBL1_RAT Beta-catenin-like protein 1 OS=Rattus norvegicus GN=Ctnnbl1 PE=1 SV=1	sp|Q4V8K2|CTBL1_RAT	0.000075
sp|Q68FT3|PYRD2_RAT Pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2 OS=Rattus norvegicus GN=Pyroxd2 PE=2 SV=1	sp|Q68FT3|PYRD2_RAT	0.000075
tr|D3ZJA9|D3ZJA9_RAT Protein Slc27a3 OS=Rattus norvegicus GN=Slc27a3 PE=4 SV=1	tr|D3ZJA9|D3ZJA9_RAT	0.00005
sp|P51650|SSDH_RAT Succinate-semialdehyde dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Aldh5a1 PE=1 SV=2	sp|P51650|SSDH_RAT (+1)	0.000075
tr|A0A096MKC0|A0A096MKC0_RAT Protein Gigyf2 (Fragment) OS=Rattus norvegicus GN=Gigyf2 PE=1 SV=1	tr|A0A096MKC0|A0A096MKC0_RAT	0.00005
tr|Q8HIC9|Q8HIC9_RAT Cytochrome c oxidase subunit 1 OS=Rattus norvegicus GN=Mt-co1 PE=1 SV=1	tr|Q8HIC9|Q8HIC9_RAT	0.00005
sp|Q2KMM2|TPPC1_RAT Trafficking protein particle complex subunit 1 OS=Rattus norvegicus GN=Trappc1 PE=2 SV=1	sp|Q2KMM2|TPPC1_RAT	0.00005
tr|G3V712|G3V712_RAT Keratin complex 2, basic, gene 7, isoform CRA_a OS=Rattus norvegicus GN=Krt7 PE=1 SV=1	tr|G3V712|G3V712_RAT	0.00015
tr|D4A899|D4A899_RAT Protein Vps13a OS=Rattus norvegicus GN=Vps13a PE=1 SV=2	tr|D4A899|D4A899_RAT	0.00005
tr|A0A0G2JWC7|A0A0G2JWC7_RAT Protein Fermt2 OS=Rattus norvegicus GN=Fermt2 PE=1 SV=1	tr|A0A0G2JWC7|A0A0G2JWC7_RAT (+1)	0.000075
tr|Q68FQ9|Q68FQ9_RAT LanC lantibiotic synthetase component C-like 2 (Bacterial) OS=Rattus norvegicus GN=Lancl2 PE=1 SV=1	tr|Q68FQ9|Q68FQ9_RAT	0.000075
tr|A0A0G2K8P2|A0A0G2K8P2_RAT Protein Tnpo3 OS=Rattus norvegicus GN=Tnpo3 PE=1 SV=1	tr|A0A0G2K8P2|A0A0G2K8P2_RAT (+1)	0.000075
sp|P63074|IF4E_RAT Eukaryotic translation initiation factor 4E OS=Rattus norvegicus GN=Eif4e PE=1 SV=1	sp|P63074|IF4E_RAT	0.00005
sp|P04646|RL35A_RAT 60S ribosomal protein L35a OS=Rattus norvegicus GN=Rpl35a PE=3 SV=1	sp|P04646|RL35A_RAT (+2)	0.00005
sp|Q99M63|SMU1_RAT WD40 repeat-containing protein SMU1 OS=Rattus norvegicus GN=Smu1 PE=2 SV=1	sp|Q99M63|SMU1_RAT (+1)	0.00005
sp|P0DN35|NDUB1_RAT NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 1 OS=Rattus norvegicus GN=Ndufb1 PE=3 SV=1	sp|P0DN35|NDUB1_RAT	0.00005
tr|A0A0G2K2P6|A0A0G2K2P6_RAT HBS1-like protein OS=Rattus norvegicus GN=Hbs1l PE=1 SV=1	tr|A0A0G2K2P6|A0A0G2K2P6_RAT (+1)	0.00005
tr|A0A0G2K8Q8|A0A0G2K8Q8_RAT Protein Uqcr10 OS=Rattus norvegicus GN=Uqcr10 PE=1 SV=1	tr|A0A0G2K8Q8|A0A0G2K8Q8_RAT	0.00005
sp|P37996|ARL3_RAT ADP-ribosylation factor-like protein 3 OS=Rattus norvegicus GN=Arl3 PE=1 SV=2	sp|P37996|ARL3_RAT	0.00005
Cluster of sp|P63329-2|PP2BA_RAT Isoform 2 of Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform OS=Rattus norvegicus GN=Ppp3ca (sp|P633	sp|P63329-2|PP2BA_RAT [4]	0.00005
sp|P63329-2|PP2BA_RAT Isoform 2 of Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform OS=Rattus norvegicus GN=Ppp3ca	sp|P63329-2|PP2BA_RAT (+1)	0.000025
sp|P20651|PP2BB_RAT Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform OS=Rattus norvegicus GN=Ppp3cb PE=1 SV=1	sp|P20651|PP2BB_RAT (+1)	0.00005
tr|D4A4A9|D4A4A9_RAT Protein Mrpl19 OS=Rattus norvegicus GN=Mrpl19 PE=1 SV=1	tr|D4A4A9|D4A4A9_RAT	0.000075
Cluster of sp|P47197|AKT2_RAT RAC-beta serine/threonine-protein kinase OS=Rattus norvegicus GN=Akt2 PE=1 SV=1 (sp|P47197|AKT2_RAT)	sp|P47197|AKT2_RAT	0.0001
sp|P47197|AKT2_RAT RAC-beta serine/threonine-protein kinase OS=Rattus norvegicus GN=Akt2 PE=1 SV=1	sp|P47197|AKT2_RAT	0.00005
Cluster of tr|A0A0G2JV51|A0A0G2JV51_RAT Protein Nat10 OS=Rattus norvegicus GN=Nat10 PE=1 SV=1 (tr|A0A0G2JV51|A0A0G2JV51_RAT)	tr|A0A0G2JV51|A0A0G2JV51_RAT	0.000025
tr|A0A0G2JV51|A0A0G2JV51_RAT Protein Nat10 OS=Rattus norvegicus GN=Nat10 PE=1 SV=1	tr|A0A0G2JV51|A0A0G2JV51_RAT	0.000025
sp|P0C0A2|VPS36_RAT Vacuolar protein-sorting-associated protein 36 OS=Rattus norvegicus GN=Vps36 PE=1 SV=1	sp|P0C0A2|VPS36_RAT (+1)	0.000075
sp|P19686|GCYA3_RAT Guanylate cyclase soluble subunit alpha-3 OS=Rattus norvegicus GN=Gucy1a3 PE=1 SV=1	sp|P19686|GCYA3_RAT	0.000025
sp|P21571|ATP5J_RAT ATP synthase-coupling factor 6, mitochondrial OS=Rattus norvegicus GN=Atp5j PE=1 SV=1	sp|P21571|ATP5J_RAT	0.000075
sp|P22509|FBRL_RAT rRNA 2'-O-methyltransferase fibrillarin OS=Rattus norvegicus GN=Fbl PE=1 SV=2	sp|P22509|FBRL_RAT	0.00012
sp|P97519|HMGCL_RAT Hydroxymethylglutaryl-CoA lyase, mitochondrial OS=Rattus norvegicus GN=Hmgcl PE=2 SV=1	sp|P97519|HMGCL_RAT	0.000075
sp|Q5I0C3|MCCA_RAT Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial OS=Rattus norvegicus GN=Mccc1 PE=1 SV=1	sp|Q5I0C3|MCCA_RAT (+1)	0.000025
sp|Q5U310|ARMX1_RAT Armadillo repeat-containing X-linked protein 1 OS=Rattus norvegicus GN=Armcx1 PE=2 SV=1	sp|Q5U310|ARMX1_RAT	0.000025
tr|A0A096MJP9|A0A096MJP9_RAT Protein Ddi2 OS=Rattus norvegicus GN=Ddi2 PE=1 SV=1	tr|A0A096MJP9|A0A096MJP9_RAT	0
tr|A0A0G2JUD2|A0A0G2JUD2_RAT Protein Ppa1 OS=Rattus norvegicus GN=Sar1a PE=1 SV=1	tr|A0A0G2JUD2|A0A0G2JUD2_RAT (+1)	0.000025
tr|A0A0G2K064|A0A0G2K064_RAT Tyrosine-protein phosphatase non-receptor type OS=Rattus norvegicus GN=Ptpn6 PE=1 SV=1	tr|A0A0G2K064|A0A0G2K064_RAT (+2)	0.000025
tr|A0A0G2K4V4|A0A0G2K4V4_RAT Protein Kdsr OS=Rattus norvegicus GN=Kdsr PE=1 SV=1	tr|A0A0G2K4V4|A0A0G2K4V4_RAT (+1)	0.000075
tr|A0A0G2K6T9|A0A0G2K6T9_RAT Protein Pcdh1 OS=Rattus norvegicus GN=Pcdh1 PE=1 SV=1	tr|A0A0G2K6T9|A0A0G2K6T9_RAT	0
tr|A0A0G2KA71|A0A0G2KA71_RAT Protein Pvrl2 OS=Rattus norvegicus GN=Pvrl2 PE=1 SV=1	tr|A0A0G2KA71|A0A0G2KA71_RAT (+1)	0.000025
tr|A1L1J8|A1L1J8_RAT Protein Rab5b OS=Rattus norvegicus GN=Rab5b PE=1 SV=1	tr|A1L1J8|A1L1J8_RAT	0.00012
tr|B1WC26|B1WC26_RAT N-acetylneuraminic acid synthase OS=Rattus norvegicus GN=Nans PE=1 SV=1	tr|B1WC26|B1WC26_RAT	0.000075
tr|D4A2G9|D4A2G9_RAT Protein Ranbp1 OS=Rattus norvegicus GN=Ranbp1 PE=1 SV=1	tr|D4A2G9|D4A2G9_RAT	0.000025
tr|D4A4H5|D4A4H5_RAT Protein Sdf2 OS=Rattus norvegicus GN=Sdf2 PE=1 SV=2	tr|D4A4H5|D4A4H5_RAT	0.000075
tr|F1LTX8|F1LTX8_RAT Protein Lpgat1 OS=Rattus norvegicus GN=Lpgat1 PE=1 SV=2	tr|F1LTX8|F1LTX8_RAT (+1)	0.000075
tr|F1LWL5|F1LWL5_RAT Protein Gemin4 OS=Rattus norvegicus GN=Gemin4 PE=1 SV=2	tr|F1LWL5|F1LWL5_RAT	0.000025

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|G3V7N0|G3V7N0_RAT Heparan sulfate 2-O-sulfotransferase 1, isoform CRA_a OS=Rattus norvegicus GN=Hs2st1 PE=1 SV=1	tr|G3V7N0|G3V7N0_RAT	0.000025
tr|M0R3R6|M0R3R6_RAT Protein Rbm14 OS=Rattus norvegicus GN=Rbm14 PE=1 SV=2	tr|M0R3R6|M0R3R6_RAT (+1)	0.000075
sp|D4A4T9|CHRD1_RAT Cysteine and histidine-rich domain-containing protein 1 OS=Rattus norvegicus GN=Chordc1 PE=3 SV=1	sp|D4A4T9|CHRD1_RAT	0.000025
sp|Q63184|E2AK2_RAT Interferon-induced, double-stranded RNA-activated protein kinase OS=Rattus norvegicus GN=Eif2ak2 PE=1 SV=1	sp|Q63184|E2AK2_RAT (+1)	0.000075
sp|Q641X9|RM09_RAT 39S ribosomal protein L9, mitochondrial OS=Rattus norvegicus GN=Mrpl9 PE=2 SV=1	sp|Q641X9|RM09_RAT	0.000025
sp|Q9Z118|PTBP3_RAT Polypyrimidine tract-binding protein 3 OS=Rattus norvegicus GN=Ptbp3 PE=2 SV=1	sp|Q9Z118|PTBP3_RAT (+1)	0.000075
tr|D3ZQM0|D3ZQM0_RAT Protein Sf3a1 OS=Rattus norvegicus GN=Sf3a1 PE=1 SV=1	tr|D3ZQM0|D3ZQM0_RAT	0.000075
tr|D4A5K6|D4A5K6_RAT Protein Zmpste24 OS=Rattus norvegicus GN=Zmpste24 PE=1 SV=1	tr|D4A5K6|D4A5K6_RAT	0.000025
tr|F1M943|F1M943_RAT Protein Armc8 OS=Rattus norvegicus GN=Armc8 PE=1 SV=2	tr|F1M943|F1M943_RAT	0.000025
tr|M0RA39|M0RA39_RAT Protein Mxra7 OS=Rattus norvegicus GN=Mxra7 PE=1 SV=1	tr|M0RA39|M0RA39_RAT	0.000075
tr|Q6AYU5|Q6AYU5_RAT Poly(RC) binding protein 2 OS=Rattus norvegicus GN=Pcbp2 PE=1 SV=1	tr|Q6AYU5|Q6AYU5_RAT	0.00012
tr|Q7TP42|Q7TP42_RAT Ab2-292 OS=Rattus norvegicus GN=Sec62 PE=1 SV=1	tr|Q7TP42|Q7TP42_RAT	0.000025
sp|P14562|LAMP1_RAT Lysosome-associated membrane glycoprotein 1 OS=Rattus norvegicus GN=Lamp1 PE=1 SV=1	sp|P14562|LAMP1_RAT	0.000025
sp|Q9QW07-3|PLCB4_RAT Isoform C of 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-4 OS=Rattus norvegicus GN=Plcb4	sp|Q9QW07-3|PLCB4_RAT (+1)	0.000025
sp|Q32PZ3|UN45A_RAT Protein unc-45 homolog A OS=Rattus norvegicus GN=Unc45a PE=2 SV=1	sp|Q32PZ3|UN45A_RAT	0.000025
tr|D3ZAS9|D3ZAS9_RAT Protein Ddrgk1 OS=Rattus norvegicus GN=Ddrgk1 PE=1 SV=1	tr|D3ZAS9|D3ZAS9_RAT	0.000075
sp|O88483|PDP1_RAT [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial OS=Rattus norvegicus GN=Pdp1 PE=1 SV=1	sp|O88483|PDP1_RAT (+2)	0.000075
tr|D4A4W6|D4A4W6_RAT Protein Slirp OS=Rattus norvegicus GN=Slirp PE=1 SV=1	tr|D4A4W6|D4A4W6_RAT	0.000025
tr|A0A0G2JTA1|A0A0G2JTA1_RAT Protein Ppp2r5e OS=Rattus norvegicus GN=Ppp2r5e PE=1 SV=1	tr|A0A0G2JTA1|A0A0G2JTA1_RAT (+1)	0.0001
sp|Q9Z1N4|BPNT1_RAT 3'(2'),5'-bisphosphate nucleotidase 1 OS=Rattus norvegicus GN=Bpnt1 PE=1 SV=1	sp|Q9Z1N4|BPNT1_RAT (+1)	0.000025
tr|A0A0G2QC15|A0A0G2QC15_RAT HIV-1 tat interactive protein 2, homolog (Human) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Htatip2 PE=1 SV=1	tr|A0A0G2QC15|A0A0G2QC15_RAT	0.000075
sp|Q5RK30|SBDS_RAT Ribosome maturation protein SBDS OS=Rattus norvegicus GN=Sbds PE=2 SV=1	sp|Q5RK30|SBDS_RAT	0.000075
sp|Q792I0|LIN7C_RAT Protein lin-7 homolog C OS=Rattus norvegicus GN=Lin7c PE=1 SV=1	sp|Q792I0|LIN7C_RAT	0.000075
tr|Q642B5|Q642B5_RAT Armadillo repeat containing, X-linked 2 OS=Rattus norvegicus GN=Armcx2 PE=2 SV=1	tr|Q642B5|Q642B5_RAT	0.000075
sp|Q6DKG0|NAA35_RAT N-alpha-acetyltransferase 35, NatC auxiliary subunit OS=Rattus norvegicus GN=Naa35 PE=1 SV=1	sp|Q6DKG0|NAA35_RAT	0.000025
sp|Q6P777|MB12A_RAT Multivesicular body subunit 12A OS=Rattus norvegicus GN=Mvb12a PE=1 SV=1	sp|Q6P777|MB12A_RAT	0.000075
sp|Q4KM77|EI24_RAT Etoposide-induced protein 2.4 homolog OS=Rattus norvegicus GN=Ei24 PE=1 SV=1	sp|Q4KM77|EI24_RAT	0.000075
sp|Q4V7F2|CREL1_RAT Cysteine-rich with EGF-like domain protein 1 OS=Rattus norvegicus GN=Creld1 PE=2 SV=1	sp|Q4V7F2|CREL1_RAT	0.000075
sp|Q5XIC2|ECSIT_RAT Evolutionarily conserved signaling intermediate in Toll pathway, mitochondrial OS=Rattus norvegicus GN=Ecsit PE=1 SV=1	sp|Q5XIC2|ECSIT_RAT	0.000025
sp|Q07984|SSRD_RAT Translocon-associated protein subunit delta OS=Rattus norvegicus GN=Ssr4 PE=2 SV=1	sp|Q07984|SSRD_RAT	0.000025
tr|Q6AY21|Q6AY21_RAT GTPase activating protein (SH3 domain) binding protein 2 OS=Rattus norvegicus GN=G3bp2 PE=1 SV=1	tr|Q6AY21|Q6AY21_RAT	0.000075
tr|A0A0G2JVH7|A0A0G2JVH7_RAT Protein Wasf2 OS=Rattus norvegicus GN=Wasf2 PE=1 SV=1	tr|A0A0G2JVH7|A0A0G2JVH7_RAT (+2)	0.000075
tr|F1LVZ9|F1LVZ9_RAT Protein Hectd3 OS=Rattus norvegicus GN=Hectd3 PE=1 SV=3	tr|F1LVZ9|F1LVZ9_RAT	0.00005
sp|M0RC99|RAB5A_RAT Ras-related protein Rab-5A OS=Rattus norvegicus GN=Rab5a PE=2 SV=1	sp|M0RC99|RAB5A_RAT	0.0001
tr|D3ZDP2|D3ZDP2_RAT Protein Ict1 OS=Rattus norvegicus GN=Ict1 PE=1 SV=1	tr|D3ZDP2|D3ZDP2_RAT	0.00005
sp|P10354|CMGA_RAT Chromogranin-A OS=Rattus norvegicus GN=Chga PE=1 SV=1	sp|P10354|CMGA_RAT (+1)	0.00005
tr|B2RZD5|B2RZD5_RAT Protein Rpl22l1 OS=Rattus norvegicus GN=Rpl22l1 PE=2 SV=1	tr|B2RZD5|B2RZD5_RAT (+1)	0.000075
tr|D4A022|D4A022_RAT Protein Gapvd1 OS=Rattus norvegicus GN=Gapvd1 PE=1 SV=3	tr|D4A022|D4A022_RAT	0.000025
tr|M0R7G4|M0R7G4_RAT Protein Apoo OS=Rattus norvegicus GN=Apoo PE=1 SV=2	tr|M0R7G4|M0R7G4_RAT (+1)	0.000025
tr|A0JN29|A0JN29_RAT Limb and neural patterns OS=Rattus norvegicus GN=Lnp PE=1 SV=1	tr|A0JN29|A0JN29_RAT	0.00005
tr|A0A0G2K6J6|A0A0G2K6J6_RAT Protein Ipo8 OS=Rattus norvegicus GN=Ipo8 PE=4 SV=1	tr|A0A0G2K6J6|A0A0G2K6J6_RAT	0.000025
sp|B0BNA9|CNO11_RAT CCR4-NOT transcription complex subunit 11 OS=Rattus norvegicus GN=Cnot11 PE=2 SV=1	sp|B0BNA9|CNO11_RAT	0.00005
sp|B4F766|DYM_RAT Dymeclin OS=Rattus norvegicus GN=Dym PE=2 SV=1	sp|B4F766|DYM_RAT (+1)	0.00005
sp|O08873|MADD_RAT MAP kinase-activating death domain protein OS=Rattus norvegicus GN=Madd PE=1 SV=1	sp|O08873|MADD_RAT (+1)	0.000025
sp|O55012-2|PICAL_RAT Isoform 2 of Phosphatidylinositol-binding clathrin assembly protein OS=Rattus norvegicus GN=Picalm	sp|O55012-2|PICAL_RAT (+5)	0.000025
sp|O55166|VPS52_RAT Vacuolar protein sorting-associated protein 52 homolog OS=Rattus norvegicus GN=Vps52 PE=2 SV=2	sp|O55166|VPS52_RAT	0.00005
sp|O88767|PARK7_RAT Protein deglycase DJ-1 OS=Rattus norvegicus GN=Park7 PE=1 SV=1	sp|O88767|PARK7_RAT (+1)	0.00005
sp|P30919|ASPG_RAT N(4)-(Beta-N-acetylglucosaminyl)-L-asparaginase OS=Rattus norvegicus GN=Aga PE=1 SV=2	sp|P30919|ASPG_RAT	0.00005
sp|P50408|VATF_RAT V-type proton ATPase subunit F OS=Rattus norvegicus GN=Atp6v1f PE=1 SV=1	sp|P50408|VATF_RAT	0.00005
sp|P52020|ERG1_RAT Squalene monooxygenase OS=Rattus norvegicus GN=Sqle PE=2 SV=1	sp|P52020|ERG1_RAT	0.00005
sp|P61265|STX1B_RAT Syntaxin-1B OS=Rattus norvegicus GN=Stx1b PE=1 SV=1	sp|P61265|STX1B_RAT	0.00005
sp|P62959|HINT1_RAT Histidine triad nucleotide-binding protein 1 OS=Rattus norvegicus GN=Hint1 PE=1 SV=5	sp|P62959|HINT1_RAT (+1)	0.00005
sp|P81799|NAGK_RAT N-acetyl-D-glucosamine kinase OS=Rattus norvegicus GN=Nagk PE=1 SV=4	sp|P81799|NAGK_RAT	0.00005
sp|P85971|6PGL_RAT 6-phosphogluconolactonase OS=Rattus norvegicus GN=Pgls PE=1 SV=1	sp|P85971|6PGL_RAT (+1)	0.00005
sp|P97633-2|KC1A_RAT Isoform 2 of Casein kinase I isoform alpha OS=Rattus norvegicus GN=Csnk1a1	sp|P97633-2|KC1A_RAT (+3)	0.00005
sp|Q3KRC5|DUS3L_RAT tRNA-dihydrouridine(47) synthase [NAD(P)(+)]-like OS=Rattus norvegicus GN=Dus3l PE=2 SV=1	sp|Q3KRC5|DUS3L_RAT (+1)	0.00005
sp|Q3ZAV8|EDC4_RAT Enhancer of mRNA-decapping protein 4 OS=Rattus norvegicus GN=Edc4 PE=1 SV=1	sp|Q3ZAV8|EDC4_RAT (+1)	0.00005
sp|Q4KLH5|AGFG1_RAT Arf-GAP domain and FG repeat-containing protein 1 OS=Rattus norvegicus GN=Agfg1 PE=1 SV=1	sp|Q4KLH5|AGFG1_RAT (+1)	0.00005
sp|Q5EAJ6-2|IKIP_RAT Isoform 2 of Inhibitor of nuclear factor kappa-B kinase-interacting protein OS=Rattus norvegicus GN=Ikbip	sp|Q5EAJ6-2|IKIP_RAT	0.00005
sp|Q5PQL7|ITM2C_RAT Integral membrane protein 2C OS=Rattus norvegicus GN=Itm2c PE=1 SV=1	sp|Q5PQL7|ITM2C_RAT	0.00005
sp|Q5U2R4|MRRP1_RAT Mitochondrial ribonuclease P protein 1 OS=Rattus norvegicus GN=Trmt10c PE=2 SV=1	sp|Q5U2R4|MRRP1_RAT	0.000025
sp|Q5U2X7|TIM21_RAT Mitochondrial import inner membrane translocase subunit Tim21 OS=Rattus norvegicus GN=Timm21 PE=2 SV=1	sp|Q5U2X7|TIM21_RAT	0.00005
sp|Q5XIC0|ECI2_RAT Enoyl-CoA delta isomerase 2, mitochondrial OS=Rattus norvegicus GN=Eci2 PE=1 SV=1	sp|Q5XIC0|ECI2_RAT	0.00005
sp|Q5XID1|CPIN1_RAT Anamorsin OS=Rattus norvegicus GN=Ciapin1 PE=1 SV=1	sp|Q5XID1|CPIN1_RAT	0.000025
sp|Q5XIF3|NDUS4_RAT NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial OS=Rattus norvegicus GN=Ndufs4 PE=1 SV=1	sp|Q5XIF3|NDUS4_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q62696|DLG1_RAT Disks large homolog 1 OS=Rattus norvegicus GN=Dlg1 PE=1 SV=1	sp|Q62696|DLG1_RAT (+2)	0.00005
sp|Q62761|KC1G1_RAT Casein kinase I isoform gamma-1 OS=Rattus norvegicus GN=Csnk1g1 PE=2 SV=1	sp|Q62761|KC1G1_RAT (+1)	0.00005
sp|Q63065|PDK1_RAT [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial OS=Rattus norvegicus GN=Pdk1 PE=1 SV=1	sp|Q63065|PDK1_RAT (+1)	0.00005
sp|Q63396|TCP4_RAT Activated RNA polymerase II transcriptional coactivator p15 OS=Rattus norvegicus GN=Sub1 PE=1 SV=3	sp|Q63396|TCP4_RAT	0.00005
sp|Q64605-2|PTPRS_RAT Isoform 2 of Receptor-type tyrosine-protein phosphatase S OS=Rattus norvegicus GN=Ptprs	sp|Q64605-2|PTPRS_RAT (+1)	0.00005
sp|Q64620|PPP6_RAT Serine/threonine-protein phosphatase 6 catalytic subunit OS=Rattus norvegicus GN=Ppp6c PE=2 SV=2	sp|Q64620|PPP6_RAT	0.00005
sp|Q66H12|NAGAB_RAT Alpha-N-acetylgalactosaminidase OS=Rattus norvegicus GN=Naga PE=2 SV=1	sp|Q66H12|NAGAB_RAT	0.00005
sp|Q6AYL5|SF3B4_RAT Splicing factor 3B subunit 4 OS=Rattus norvegicus GN=Sf3b4 PE=2 SV=1	sp|Q6AYL5|SF3B4_RAT	0.00005
sp|Q6MG12|CF136_RAT Uncharacterized protein C6orf136 homolog OS=Rattus norvegicus PE=2 SV=1	sp|Q6MG12|CF136_RAT (+1)	0.00005
sp|Q6MG14|NRM_RAT Nurim OS=Rattus norvegicus GN=Nrm PE=3 SV=1	sp|Q6MG14|NRM_RAT (+1)	0.00005
sp|Q6P791|LTOR1_RAT Ragulator complex protein LAMTOR1 OS=Rattus norvegicus GN=Lamtor1 PE=1 SV=1	sp|Q6P791|LTOR1_RAT	0.000025
sp|Q6P7Q1|BRE_RAT BRCA1-A complex subunit BRE OS=Rattus norvegicus GN=Bre PE=1 SV=1	sp|Q6P7Q1|BRE_RAT	0.00005
sp|Q6P9U3|COMD3_RAT COMM domain-containing protein 3 OS=Rattus norvegicus GN=Commd3 PE=1 SV=1	sp|Q6P9U3|COMD3_RAT	0.00005
sp|Q6VBQ8|PNO1_RAT RNA-binding protein PNO1 OS=Rattus norvegicus GN=Pno1 PE=2 SV=1	sp|Q6VBQ8|PNO1_RAT (+1)	0.00005
sp|Q71UE8|NEDD8_RAT NEDD8 OS=Rattus norvegicus GN=Nedd8 PE=1 SV=1	sp|Q71UE8|NEDD8_RAT (+1)	0.00005
sp|Q99ND9|RWDD1_RAT RWD domain-containing protein 1 OS=Rattus norvegicus GN=Rwdd1 PE=2 SV=1	sp|Q99ND9|RWDD1_RAT	0.00005
sp|Q9JHE5|S38A2_RAT Sodium-coupled neutral amino acid transporter 2 OS=Rattus norvegicus GN=Slc38a2 PE=1 SV=1	sp|Q9JHE5|S38A2_RAT	0.00005
sp|Q9JI92|SDCB1_RAT Syntenin-1 OS=Rattus norvegicus GN=Sdcbp PE=1 SV=1	sp|Q9JI92|SDCB1_RAT	0.00005
sp|Q9JMB5|ADRM1_RAT Proteasomal ubiquitin receptor ADRM1 OS=Rattus norvegicus GN=Adrm1 PE=1 SV=2	sp|Q9JMB5|ADRM1_RAT	0.00005
sp|Q9WTR7|SC11C_RAT Signal peptidase complex catalytic subunit SEC11C OS=Rattus norvegicus GN=Sec11c PE=2 SV=3	sp|Q9WTR7|SC11C_RAT (+1)	0.00005
sp|Q9WVE9-2|ITSN1_RAT Isoform 2 of Intersectin-1 OS=Rattus norvegicus GN=Itsn1	sp|Q9WVE9-2|ITSN1_RAT (+2)	0.00005
tr|A0A096MJ99|A0A096MJ99_RAT Protein Vamp4 OS=Rattus norvegicus GN=Vamp4 PE=1 SV=1	tr|A0A096MJ99|A0A096MJ99_RAT (+1)	0.00005
tr|A0A0G2JSZ9|A0A0G2JSZ9_RAT Copper chaperone for superoxide dismutase OS=Rattus norvegicus GN=Ccs PE=1 SV=1	tr|A0A0G2JSZ9|A0A0G2JSZ9_RAT	0.00005
tr|A0A0G2JV16|A0A0G2JV16_RAT Protein Dock11 OS=Rattus norvegicus GN=Dock11 PE=1 SV=1	tr|A0A0G2JV16|A0A0G2JV16_RAT (+1)	0.00005
tr|A0A0G2JW58|A0A0G2JW58_RAT Uncharacterized protein (Fragment) OS=Rattus norvegicus PE=3 SV=1	tr|A0A0G2JW58|A0A0G2JW58_RAT	0.00005
tr|A0A0G2JWF4|A0A0G2JWF4_RAT Protein Aspscr1 OS=Rattus norvegicus GN=Aspscr1 PE=1 SV=1	tr|A0A0G2JWF4|A0A0G2JWF4_RAT (+1)	0.000075
tr|A0A0G2JZF6|A0A0G2JZF6_RAT Protein Ndufaf2 OS=Rattus norvegicus GN=Ndufaf2 PE=1 SV=1	tr|A0A0G2JZF6|A0A0G2JZF6_RAT	0.00005
tr|A0A0G2K437|A0A0G2K437_RAT Protein Amfr OS=Rattus norvegicus GN=Amfr PE=1 SV=1	tr|A0A0G2K437|A0A0G2K437_RAT	0.000025
tr|A0A0G2K7W7|A0A0G2K7W7_RAT Glycogen synthase kinase-3 alpha OS=Rattus norvegicus GN=Gsk3a PE=1 SV=1	tr|A0A0G2K7W7|A0A0G2K7W7_RAT (+1)	0.00005
tr|A0A0G2K9J0|A0A0G2K9J0_RAT Protein Tanc2 OS=Rattus norvegicus GN=Tanc2 PE=1 SV=1	tr|A0A0G2K9J0|A0A0G2K9J0_RAT (+1)	0.000025
tr|B0BMZ1|B0BMZ1_RAT Protein RGD1305587 OS=Rattus norvegicus GN=RGD1305587 PE=1 SV=1	tr|B0BMZ1|B0BMZ1_RAT (+1)	0.00005
tr|B0K026|B0K026_RAT Letmd1 protein OS=Rattus norvegicus GN=Letmd1 PE=1 SV=1	tr|B0K026|B0K026_RAT (+1)	0.00005
tr|B1WBM0|B1WBM0_RAT Tetraspanin OS=Rattus norvegicus GN=Cd9 PE=1 SV=1	tr|B1WBM0|B1WBM0_RAT	0.000025
tr|B1WC73|B1WC73_RAT ADP-ribosylation factor-like 6 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Arl6 PE=1 SV=1	tr|B1WC73|B1WC73_RAT	0.00005
tr|B2GUW4|B2GUW4_RAT Exdl2 protein OS=Rattus norvegicus GN=Exd2 PE=1 SV=1	tr|B2GUW4|B2GUW4_RAT	0.000075
tr|B2GV57|B2GV57_RAT Protein Cars2 OS=Rattus norvegicus GN=Cars2 PE=1 SV=1	tr|B2GV57|B2GV57_RAT	0.00005
tr|B2GV62|B2GV62_RAT Mitochondrial ribosomal protein L20 OS=Rattus norvegicus GN=Mrpl20 PE=1 SV=1	tr|B2GV62|B2GV62_RAT	0.00005
tr|B2RYW4|B2RYW4_RAT Mitochondrial ribosomal protein L53 OS=Rattus norvegicus GN=Mrpl53 PE=1 SV=1	tr|B2RYW4|B2RYW4_RAT	0.00005
tr|B5DES0|B5DES0_RAT Protein Snrpd2 OS=Rattus norvegicus GN=Snrpd2 PE=1 SV=1	tr|B5DES0|B5DES0_RAT	0.00005
tr|D3Z9W4|D3Z9W4_RAT Protein LOC100909620 OS=Rattus norvegicus GN=RGD1564380 PE=4 SV=2	tr|D3Z9W4|D3Z9W4_RAT (+1)	0.00005
tr|D3ZAQ0|D3ZAQ0_RAT Protein Fundc2 OS=Rattus norvegicus GN=Fundc2 PE=1 SV=1	tr|D3ZAQ0|D3ZAQ0_RAT	0.00005
tr|D3ZAS8|D3ZAS8_RAT Protein Sart3 OS=Rattus norvegicus GN=Sart3 PE=1 SV=1	tr|D3ZAS8|D3ZAS8_RAT	0.00005
tr|D3ZC07|D3ZC07_RAT Protein Setsip OS=Rattus norvegicus GN=Pkn3 PE=1 SV=3	tr|D3ZC07|D3ZC07_RAT	0.000025
tr|D3ZC89|D3ZC89_RAT Protein Fam114a2 OS=Rattus norvegicus GN=Fam114a2 PE=1 SV=3	tr|D3ZC89|D3ZC89_RAT	0.000025
tr|D3ZE72|D3ZE72_RAT Methionyl aminopeptidase 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Metap1 PE=1 SV=1	tr|D3ZE72|D3ZE72_RAT	0.000025
tr|D3ZF97|D3ZF97_RAT Protein Erlec1 OS=Rattus norvegicus GN=Erlec1 PE=1 SV=2	tr|D3ZF97|D3ZF97_RAT	0.00005
tr|D3ZFH5|D3ZFH5_RAT Protein Itih2 OS=Rattus norvegicus GN=Itih2 PE=1 SV=3	tr|D3ZFH5|D3ZFH5_RAT	0.00005
tr|D3ZHG3|D3ZHG3_RAT Protein Ptk7 OS=Rattus norvegicus GN=Ptk7 PE=1 SV=3	tr|D3ZHG3|D3ZHG3_RAT	0.00005
tr|D3ZHL6|D3ZHL6_RAT Mitogen-activated protein kinase kinase kinase kinase OS=Rattus norvegicus GN=Map4k5 PE=1 SV=2	tr|D3ZHL6|D3ZHL6_RAT	0.00005
tr|D3ZKR8|D3ZKR8_RAT Protein kish OS=Rattus norvegicus GN=Tmem167a PE=1 SV=2	tr|D3ZKR8|D3ZKR8_RAT	0.00005
tr|D3ZNA5|D3ZNA5_RAT Uncharacterized protein (Fragment) OS=Rattus norvegicus GN=LOC686860 PE=3 SV=3	tr|D3ZNA5|D3ZNA5_RAT (+1)	0.00005
tr|D3ZQE8|D3ZQE8_RAT Protein Xpo5 OS=Rattus norvegicus GN=Xpo5 PE=1 SV=1	tr|D3ZQE8|D3ZQE8_RAT	0.00005
tr|D3ZRE7|D3ZRE7_RAT Protein Swap70 OS=Rattus norvegicus GN=Swap70 PE=1 SV=1	tr|D3ZRE7|D3ZRE7_RAT	0.00005
tr|D3ZVD8|D3ZVD8_RAT Protein Hdac6 OS=Rattus norvegicus GN=Hdac6 PE=1 SV=2	tr|D3ZVD8|D3ZVD8_RAT	0.00005
tr|D3ZXF9|D3ZXF9_RAT Protein Mrpl12 OS=Rattus norvegicus GN=Mrpl12 PE=1 SV=1	tr|D3ZXF9|D3ZXF9_RAT	0.00005
tr|D4A4U3|D4A4U3_RAT Protein Mdp1 OS=Rattus norvegicus GN=Mdp1 PE=1 SV=1	tr|D4A4U3|D4A4U3_RAT	0.00005
tr|D4A4W7|D4A4W7_RAT Protein Mgarp OS=Rattus norvegicus GN=Mgarp PE=1 SV=1	tr|D4A4W7|D4A4W7_RAT	0.000025
tr|E9PTA5|E9PTA5_RAT Protein Pign OS=Rattus norvegicus GN=Pign PE=1 SV=3	tr|E9PTA5|E9PTA5_RAT	0.00005
tr|F1LP57|F1LP57_RAT Protein Map2k4 OS=Rattus norvegicus GN=Map2k4 PE=1 SV=3	tr|F1LP57|F1LP57_RAT	0.00005
tr|F1LPG5|F1LPG5_RAT Protein Ndufb4 OS=Rattus norvegicus GN=Ndufb4 PE=1 SV=1	tr|F1LPG5|F1LPG5_RAT	0.00005
tr|F1LWG4|F1LWG4_RAT NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, assembly factor 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Ndufaf1 P	tr|F1LWG4|F1LWG4_RAT	0.00005
Cluster of tr|F1LWM8|F1LWM8_RAT Oxysterol-binding protein OS=Rattus norvegicus GN=Osbpl10 PE=3 SV=3 (tr|F1LWM8|F1LWM8_RAT)	tr|F1LWM8|F1LWM8_RAT	0.00005
tr|F1LWM8|F1LWM8_RAT Oxysterol-binding protein OS=Rattus norvegicus GN=Osbpl10 PE=3 SV=3	tr|F1LWM8|F1LWM8_RAT	0.00005
tr|F1LYZ8|F1LYZ8_RAT Protein Ppp1r21 OS=Rattus norvegicus GN=Ppp1r21 PE=1 SV=3	tr|F1LYZ8|F1LYZ8_RAT	0.00005
tr|F1M8A5|F1M8A5_RAT Protein Hypk OS=Rattus norvegicus GN=Hypk PE=1 SV=1	tr|F1M8A5|F1M8A5_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|F1MAA2|F1MAA2_RAT Protein Cops7a OS=Rattus norvegicus GN=Cops7a PE=1 SV=1	tr|F1MAA2|F1MAA2_RAT (+1)	0.00005
tr|G3V982|G3V982_RAT Engulfment and cell motility 2, ced-12 homolog (C. elegans), isoform CRA_b OS=Rattus norvegicus GN=Elmo2 PE=1 SV=1	tr|G3V982|G3V982_RAT	0.000075
tr|I2FHN3|I2FHN3_RAT Cathepsin L OS=Rattus norvegicus GN=Ctsl PE=1 SV=1	tr|I2FHN3|I2FHN3_RAT	0.00005
tr|I6L9G6|I6L9G6_RAT Protein Tardbp OS=Rattus norvegicus GN=Tardbp PE=1 SV=1	tr|I6L9G6|I6L9G6_RAT	0.00005
tr|M0RBX7|M0RBX7_RAT Amyloid-like protein 2 OS=Rattus norvegicus GN=Aplp2 PE=1 SV=2	tr|M0RBX7|M0RBX7_RAT (+1)	0.00005
tr|Q499V0|Q499V0_RAT COMM domain containing 7 OS=Rattus norvegicus GN=Commd7 PE=1 SV=1	tr|Q499V0|Q499V0_RAT	0.00005
tr|Q6DGG9|Q6DGG9_RAT Calcium modulating ligand OS=Rattus norvegicus GN=Camlg PE=1 SV=1	tr|Q6DGG9|Q6DGG9_RAT	0.00005
tr|D3ZNQ6|D3ZNQ6_RAT Protein Ube2m OS=Rattus norvegicus GN=Ube2m PE=1 SV=1	tr|D3ZNQ6|D3ZNQ6_RAT	0
tr|Q5XIR2|Q5XIR2_RAT Intraflagellar transport 74 homolog (Chlamydomonas) OS=Rattus norvegicus GN=Ift74 PE=1 SV=1	tr|Q5XIR2|Q5XIR2_RAT	0.000075
tr|B2RYQ2|B2RYQ2_RAT Protein Ppp2r4 OS=Rattus norvegicus GN=Ppp2r4 PE=1 SV=1	tr|B2RYQ2|B2RYQ2_RAT	0.00005
tr|A0A0G2K8D1|A0A0G2K8D1_RAT Protein Mospd2 OS=Rattus norvegicus GN=Mospd2 PE=1 SV=1	tr|A0A0G2K8D1|A0A0G2K8D1_RAT (+1)	0.000075
tr|D4ACK7|D4ACK7_RAT Protein Cnnm3 OS=Rattus norvegicus GN=Cnnm3 PE=1 SV=1	tr|D4ACK7|D4ACK7_RAT	0.00005
sp|Q6AXS4|RENR_RAT Renin receptor OS=Rattus norvegicus GN=Atp6ap2 PE=2 SV=1	sp|Q6AXS4|RENR_RAT	0.000075
tr|D3ZLN7|D3ZLN7_RAT COMM domain containing 2 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Commd2 PE=1 SV=1	tr|D3ZLN7|D3ZLN7_RAT	0.000025
sp|Q71TY3|RS27_RAT 40S ribosomal protein S27 OS=Rattus norvegicus GN=Rps27 PE=1 SV=3	sp|Q71TY3|RS27_RAT	0.000075
tr|E9PU13|E9PU13_RAT Protein Snx4 OS=Rattus norvegicus GN=Snx4 PE=1 SV=1	tr|E9PU13|E9PU13_RAT	0.00005
tr|M0R781|M0R781_RAT Protein Dpp9 OS=Rattus norvegicus GN=Dpp9 PE=1 SV=1	tr|M0R781|M0R781_RAT	0.00005
tr|B1H282|B1H282_RAT Glycosyltransferase 25 domain containing 1 OS=Rattus norvegicus GN=Colgalt1 PE=1 SV=1	tr|B1H282|B1H282_RAT	0.000025
tr|Q5XIP0|Q5XIP0_RAT DnaJ (Hsp40) homolog, subfamily B, member 4 OS=Rattus norvegicus GN=Dnajb4 PE=1 SV=1	tr|Q5XIP0|Q5XIP0_RAT	0.000075
sp|Q7TQ20|DNJC2_RAT DnaJ homolog subfamily C member 2 OS=Rattus norvegicus GN=Dnajc2 PE=1 SV=1	sp|Q7TQ20|DNJC2_RAT (+1)	0.00005
sp|A8WCF8|TPRGL_RAT Tumor protein p63-regulated gene 1-like protein OS=Rattus norvegicus GN=Tprg1l PE=1 SV=1	sp|A8WCF8|TPRGL_RAT (+1)	0.00005
sp|Q6AXN4|NDC1_RAT Nucleoporin NDC1 OS=Rattus norvegicus GN=Ndc1 PE=1 SV=1	sp|Q6AXN4|NDC1_RAT	0.00005
Cluster of sp|Q8K1P7|SMCA4_RAT Transcription activator BRG1 OS=Rattus norvegicus GN=Smarca4 PE=1 SV=1 (sp|Q8K1P7|SMCA4_RAT)	sp|Q8K1P7|SMCA4_RAT [2]	0.00005
sp|Q8K1P7|SMCA4_RAT Transcription activator BRG1 OS=Rattus norvegicus GN=Smarca4 PE=1 SV=1	sp|Q8K1P7|SMCA4_RAT (+1)	0.00005
tr|B5DEZ4|B5DEZ4_RAT Protein Tcerg1 OS=Rattus norvegicus GN=Tcerg1 PE=1 SV=1	tr|B5DEZ4|B5DEZ4_RAT (+1)	0.00005
Cluster of sp|P54645|AAPK1_RAT 5'-AMP-activated protein kinase catalytic subunit alpha-1 OS=Rattus norvegicus GN=Prkaa1 PE=1 SV=2 (sp|P54645|AAPK1_RAT)	sp|P54645|AAPK1_RAT	0.00005
sp|P54645|AAPK1_RAT 5'-AMP-activated protein kinase catalytic subunit alpha-1 OS=Rattus norvegicus GN=Prkaa1 PE=1 SV=2	sp|P54645|AAPK1_RAT	0.00005
tr|Q5RJK9|Q5RJK9_RAT Polymerase (RNA) I polypeptide C OS=Rattus norvegicus GN=Polr1c PE=1 SV=1	tr|Q5RJK9|Q5RJK9_RAT	0.00005
tr|D3ZXY2|D3ZXY2_RAT PDZ domain containing 8 (Predicted) OS=Rattus norvegicus GN=Pdzd8 PE=1 SV=1	tr|D3ZXY2|D3ZXY2_RAT	0.000025
sp|B0BN86|TMM11_RAT Transmembrane protein 11, mitochondrial OS=Rattus norvegicus GN=Tmem11 PE=2 SV=1	sp|B0BN86|TMM11_RAT (+1)	0.00005
sp|O35910|MOT4_RAT Monocarboxylate transporter 4 OS=Rattus norvegicus GN=Slc16a3 PE=1 SV=1	sp|O35910|MOT4_RAT	0.00005
sp|P61023|CHP1_RAT Calcineurin B homologous protein 1 OS=Rattus norvegicus GN=Chp1 PE=1 SV=2	sp|P61023|CHP1_RAT	0.00005
sp|Q56B11|PELP1_RAT Proline-, glutamic acid- and leucine-rich protein 1 OS=Rattus norvegicus GN=Pelp1 PE=1 SV=2	sp|Q56B11|PELP1_RAT (+1)	0.00005
sp|Q5PQN0|NCALD_RAT Neurocalcin-delta OS=Rattus norvegicus GN=Ncald PE=1 SV=3	sp|Q5PQN0|NCALD_RAT	0.00005
sp|Q9JJK4|PEX3_RAT Peroxisomal biogenesis factor 3 OS=Rattus norvegicus GN=Pex3 PE=1 SV=1	sp|Q9JJK4|PEX3_RAT	0.000075
sp|Q9Z2Z8|DHCR7_RAT 7-dehydrocholesterol reductase OS=Rattus norvegicus GN=Dhcr7 PE=2 SV=1	sp|Q9Z2Z8|DHCR7_RAT	0.00005
tr|A0A0G2JSL2|A0A0G2JSL2_RAT RCG58353, isoform CRA_e OS=Rattus norvegicus GN=Trappc4 PE=1 SV=1	tr|A0A0G2JSL2|A0A0G2JSL2_RAT	0.00005
tr|A0A0G2JZH8|A0A0G2JZH8_RAT Protein Pdhx OS=Rattus norvegicus GN=Pdhx PE=1 SV=1	tr|A0A0G2JZH8|A0A0G2JZH8_RAT (+1)	0.00005
tr|B0K014|B0K014_RAT D-tyrosyl-tRNA(Tyr) deacylase OS=Rattus norvegicus GN=Dtd1 PE=1 SV=1	tr|B0K014|B0K014_RAT (+1)	0.00005
tr|G3V828|G3V828_RAT Protein Cnpy3 OS=Rattus norvegicus GN=Cnpy3 PE=1 SV=1	tr|G3V828|G3V828_RAT	0.00005
tr|G3V8D0|G3V8D0_RAT Protein St8sia3 OS=Rattus norvegicus GN=St8sia3 PE=1 SV=1	tr|G3V8D0|G3V8D0_RAT	0.000025
tr|Q5U214|Q5U214_RAT Protein Snrpa OS=Rattus norvegicus GN=Snrpa PE=1 SV=1	tr|Q5U214|Q5U214_RAT	0.00005
sp|Q9QYG8|UCK2_RAT Uridine-cytidine kinase 2 OS=Rattus norvegicus GN=Uck2 PE=2 SV=2	sp|Q9QYG8|UCK2_RAT (+2)	0.00005
sp|P70541|EI2BG_RAT Translation initiation factor eIF-2B subunit gamma OS=Rattus norvegicus GN=Eif2b3 PE=2 SV=2	sp|P70541|EI2BG_RAT	0.00005
sp|Q66HL2|SRC8_RAT Src substrate cortactin OS=Rattus norvegicus GN=Cttn PE=1 SV=1	sp|Q66HL2|SRC8_RAT (+2)	0.00005
tr|A0A0G2K621|A0A0G2K621_RAT Protein Pnpla8 OS=Rattus norvegicus GN=Pnpla8 PE=1 SV=1	tr|A0A0G2K621|A0A0G2K621_RAT (+1)	0.00005
sp|P12749|RL26_RAT 60S ribosomal protein L26 OS=Rattus norvegicus GN=Rpl26 PE=1 SV=1	sp|P12749|RL26_RAT (+1)	0.00005
sp|Q9WVJ4|SYJ2B_RAT Synaptojanin-2-binding protein OS=Rattus norvegicus GN=Synj2bp PE=1 SV=2	sp|Q9WVJ4|SYJ2B_RAT	0.00005
sp|Q66H63|GDAP2_RAT Ganglioside-induced differentiation-associated-protein 2 OS=Rattus norvegicus GN=Gdap2 PE=2 SV=1	sp|Q66H63|GDAP2_RAT	0.00005
sp|P17164|FUCO_RAT Tissue alpha-L-fucosidase OS=Rattus norvegicus GN=Fuca1 PE=1 SV=1	sp|P17164|FUCO_RAT (+1)	0.00005
sp|Q6P747|HP1B3_RAT Heterochromatin protein 1-binding protein 3 OS=Rattus norvegicus GN=Hp1bp3 PE=1 SV=1	sp|Q6P747|HP1B3_RAT (+1)	0.00005
tr|A0A0G2K675|A0A0G2K675_RAT Alpha-ketoglutarate-dependent dioxygenase FTO OS=Rattus norvegicus GN=Fto PE=1 SV=1	tr|A0A0G2K675|A0A0G2K675_RAT (+1)	0
sp|Q9Z330-9|DNMT1_RAT Isoform 9 of DNA (cytosine-5)-methyltransferase 1 OS=Rattus norvegicus GN=Dnmt1	sp|Q9Z330-9|DNMT1_RAT (+3)	0.00005
tr|D3ZCK4|D3ZCK4_RAT Protein Def6 OS=Rattus norvegicus GN=Def6 PE=1 SV=1	tr|D3ZCK4|D3ZCK4_RAT	0.00005
sp|P0C2C4|RM10_RAT 39S ribosomal protein L10, mitochondrial OS=Rattus norvegicus GN=Mrpl10 PE=1 SV=1	sp|P0C2C4|RM10_RAT (+1)	0.000075
sp|Q8R511-2|FNBP1_RAT Isoform 2 of Formin-binding protein 1 OS=Rattus norvegicus GN=Fnbp1	sp|Q8R511-2|FNBP1_RAT (+6)	0
sp|B2RYW9|FAHD2_RAT Fumarylacetoacetate hydrolase domain-containing protein 2 OS=Rattus norvegicus GN=Fahd2 PE=1 SV=1	sp|B2RYW9|FAHD2_RAT	0.00005
sp|Q3B8N8|PESC_RAT Pescadillo homolog OS=Rattus norvegicus GN=Pes1 PE=2 SV=1	sp|Q3B8N8|PESC_RAT	0.00005
sp|Q9EQS0|TALDO_RAT Transaldolase OS=Rattus norvegicus GN=Taldo1 PE=1 SV=2	sp|Q9EQS0|TALDO_RAT	0.00005
tr|A0A0G2K9T4|A0A0G2K9T4_RAT Microtubule-actin cross-linking factor 1 OS=Rattus norvegicus GN=Macf1 PE=1 SV=1	tr|A0A0G2K9T4|A0A0G2K9T4_RAT	0.00005
sp|O35532|MSMO1_RAT Methylsterol monooxygenase 1 OS=Rattus norvegicus GN=Msmo1 PE=2 SV=1	sp|O35532|MSMO1_RAT	0.00005
sp|P29066|ARRB1_RAT Beta-arrestin-1 OS=Rattus norvegicus GN=Arrb1 PE=1 SV=1	sp|P29066|ARRB1_RAT	0.000025
sp|P62997|TRA2B_RAT Transformer-2 protein homolog beta OS=Rattus norvegicus GN=Tra2b PE=1 SV=1	sp|P62997|TRA2B_RAT	0.00005
sp|Q63016|LAT1_RAT Large neutral amino acids transporter small subunit 1 OS=Rattus norvegicus GN=Slc7a5 PE=1 SV=2	sp|Q63016|LAT1_RAT	0.00005
sp|Q6P6S5|WRB_RAT Tail-anchored protein insertion receptor WRB OS=Rattus norvegicus GN=Wrb PE=2 SV=1	sp|Q6P6S5|WRB_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D3ZXF8|D3ZXF8_RAT Mitochondrial ribosomal protein L43 (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Mrpl43 PE=1 SV=3	tr|D3ZXF8|D3ZXF8_RAT	0.00005
tr|Q2M2S1|Q2M2S1_RAT Protein Tor1b OS=Rattus norvegicus GN=Tor1b PE=1 SV=1	tr|Q2M2S1|Q2M2S1_RAT	0.00005
tr|Q6GMM8|Q6GMM8_RAT Long-chain fatty acid transport protein 1 OS=Rattus norvegicus GN=Slc27a1 PE=1 SV=1	tr|Q6GMM8|Q6GMM8_RAT	0.00005
sp|O08662|PI4KA_RAT Phosphatidylinositol 4-kinase alpha OS=Rattus norvegicus GN=Pi4ka PE=1 SV=2	sp|O08662|PI4KA_RAT	0.000025
sp|B2RZ37|REEP5_RAT Receptor expression-enhancing protein 5 OS=Rattus norvegicus GN=Reep5 PE=1 SV=1	sp|B2RZ37|REEP5_RAT	0.000075
tr|A0A0G2JZD1|A0A0G2JZD1_RAT Protein Ppp2r5c OS=Rattus norvegicus GN=Ppp2r5c PE=1 SV=1	tr|A0A0G2JZD1|A0A0G2JZD1_RAT	0.00012
Cluster of sp|G3V6S8|SRSF6_RAT Serine/arginine-rich splicing factor 6 OS=Rattus norvegicus GN=Srsf6 PE=1 SV=1 (sp|G3V6S8|SRSF6_RAT)	sp|G3V6S8|SRSF6_RAT	0.00005
sp|G3V6S8|SRSF6_RAT Serine/arginine-rich splicing factor 6 OS=Rattus norvegicus GN=Srsf6 PE=1 SV=1	sp|G3V6S8|SRSF6_RAT	0.00005
tr|D3ZNV6|D3ZNV6_RAT Protein Elmod2 OS=Rattus norvegicus GN=Elmod2 PE=1 SV=1	tr|D3ZNV6|D3ZNV6_RAT (+1)	0.00005
sp|P11250|RL34_RAT 60S ribosomal protein L34 OS=Rattus norvegicus GN=Rpl34 PE=1 SV=3	sp|P11250|RL34_RAT (+3)	0.00005
sp|P24008|S5A1_RAT 3-oxo-5-alpha-steroid 4-dehydrogenase 1 OS=Rattus norvegicus GN=Srd5a1 PE=1 SV=2	sp|P24008|S5A1_RAT (+1)	0.00005
tr|A0A0G2K5X3|A0A0G2K5X3_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|A0A0G2K5X3|A0A0G2K5X3_RAT (+1)	0.0001
sp|Q9EQH5-2|CTBP2_RAT Isoform 2 of C-terminal-binding protein 2 OS=Rattus norvegicus GN=Ctbp2	sp|Q9EQH5-2|CTBP2_RAT (+1)	0.00005
tr|G3V727|G3V727_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 47, isoform CRA_a OS=Rattus norvegicus GN=Ddx47 PE=1 SV=1	tr|G3V727|G3V727_RAT	0.000025
Cluster of sp|Q63632|S12A4_RAT Solute carrier family 12 member 4 OS=Rattus norvegicus GN=Slc12a4 PE=1 SV=1 (sp|Q63632|S12A4_RAT)	sp|Q63632|S12A4_RAT	0.00005
sp|Q63632|S12A4_RAT Solute carrier family 12 member 4 OS=Rattus norvegicus GN=Slc12a4 PE=1 SV=1	sp|Q63632|S12A4_RAT	0.00005
tr|Q499S6|Q499S6_RAT Cathepsin F OS=Rattus norvegicus GN=Ctsf PE=1 SV=1	tr|Q499S6|Q499S6_RAT	0.00005
Cluster of sp|P37285-3|KLC1_RAT Isoform B of Kinesin light chain 1 OS=Rattus norvegicus GN=Klc1 (sp|P37285-3|KLC1_RAT)	sp|P37285-3|KLC1_RAT [3]	0.000025
sp|P37285-3|KLC1_RAT Isoform B of Kinesin light chain 1 OS=Rattus norvegicus GN=Klc1	sp|P37285-3|KLC1_RAT (+2)	0.000025
Cluster of tr|F1LQZ3|F1LQZ3_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif3a PE=1 SV=2 (tr|F1LQZ3|F1LQZ3_RAT)	tr|F1LQZ3|F1LQZ3_RAT	0.000025
tr|F1LQZ3|F1LQZ3_RAT Kinesin-like protein OS=Rattus norvegicus GN=Kif3a PE=1 SV=2	tr|F1LQZ3|F1LQZ3_RAT	0.000025
Cluster of sp|P02454|CO1A1_RAT Collagen alpha-1(I) chain OS=Rattus norvegicus GN=Col1a1 PE=1 SV=5 (sp|P02454|CO1A1_RAT)	sp|P02454|CO1A1_RAT	0.000075
sp|P02454|CO1A1_RAT Collagen alpha-1(I) chain OS=Rattus norvegicus GN=Col1a1 PE=1 SV=5	sp|P02454|CO1A1_RAT	0.000075
Cluster of sp|F1LM93|YES_RAT Tyrosine-protein kinase Yes OS=Rattus norvegicus GN=Yes1 PE=1 SV=1 (sp|F1LM93|YES_RAT)	sp|F1LM93|YES_RAT	0.0001
sp|F1LM93|YES_RAT Tyrosine-protein kinase Yes OS=Rattus norvegicus GN=Yes1 PE=1 SV=1	sp|F1LM93|YES_RAT	0.000075
sp|Q5I0K8|RT07_RAT 28S ribosomal protein S7, mitochondrial OS=Rattus norvegicus GN=Mrps7 PE=2 SV=2	sp|Q5I0K8|RT07_RAT	0
sp|Q62703|RCN2_RAT Reticulocalbin-2 OS=Rattus norvegicus GN=Rcn2 PE=1 SV=2	sp|Q62703|RCN2_RAT	0.000075
sp|Q68FP9|COG6_RAT Conserved oligomeric Golgi complex subunit 6 OS=Rattus norvegicus GN=Cog6 PE=2 SV=1	sp|Q68FP9|COG6_RAT	0
sp|Q9JID1|PDCD4_RAT Programmed cell death protein 4 OS=Rattus norvegicus GN=Pdcd4 PE=1 SV=2	sp|Q9JID1|PDCD4_RAT	0.000075
sp|Q9WV97|TIM9_RAT Mitochondrial import inner membrane translocase subunit Tim9 OS=Rattus norvegicus GN=Timm9 PE=1 SV=3	sp|Q9WV97|TIM9_RAT	0
tr|B2GV72|B2GV72_RAT Carbonyl reductase 3 OS=Rattus norvegicus GN=Cbr3 PE=1 SV=1	tr|B2GV72|B2GV72_RAT	0.000025
sp|P62634|CNBP_RAT Cellular nucleic acid-binding protein OS=Rattus norvegicus GN=Cnbp PE=2 SV=1	sp|P62634|CNBP_RAT	0
sp|Q08850|STX4_RAT Syntaxin-4 OS=Rattus norvegicus GN=Stx4 PE=1 SV=1	sp|Q08850|STX4_RAT (+1)	0.000075
sp|Q5XI29|CPSF7_RAT Cleavage and polyadenylation specificity factor subunit 7 OS=Rattus norvegicus GN=Cpsf7 PE=1 SV=1	sp|Q5XI29|CPSF7_RAT	0.000075
sp|Q5XIE1|THEM6_RAT Protein THEM6 OS=Rattus norvegicus GN=Them6 PE=2 SV=1	sp|Q5XIE1|THEM6_RAT	0
tr|G3V940|G3V940_RAT Coronin OS=Rattus norvegicus GN=Coro1b PE=1 SV=1	tr|G3V940|G3V940_RAT	0.000075
tr|D3ZC82|D3ZC82_RAT Protein Nufip2 OS=Rattus norvegicus GN=Nufip2 PE=1 SV=2	tr|D3ZC82|D3ZC82_RAT	0.000075
sp|Q62825|EXOC3_RAT Exocyst complex component 3 OS=Rattus norvegicus GN=Exoc3 PE=1 SV=1	sp|Q62825|EXOC3_RAT	0.00005
tr|D3ZHB7|D3ZHB7_RAT Protein Ube3c OS=Rattus norvegicus GN=Ube3c PE=1 SV=3	tr|D3ZHB7|D3ZHB7_RAT	0
tr|A0A0G2K401|A0A0G2K401_RAT Propionyl-CoA carboxylase alpha chain, mitochondrial OS=Rattus norvegicus GN=Pcca PE=1 SV=1	tr|A0A0G2K401|A0A0G2K401_RAT (+1)	0
tr|D3ZG78|D3ZG78_RAT Protein Zzef1 OS=Rattus norvegicus GN=Zzef1 PE=1 SV=2	tr|D3ZG78|D3ZG78_RAT	0.000025
tr|F1M3H8|F1M3H8_RAT Protein Hnrnpa0 OS=Rattus norvegicus GN=Hnrnpa0 PE=1 SV=3	tr|F1M3H8|F1M3H8_RAT	0.00005
sp|Q9ES53|UFD1_RAT Ubiquitin fusion degradation protein 1 homolog OS=Rattus norvegicus GN=Ufd1l PE=1 SV=1	sp|Q9ES53|UFD1_RAT	0.00005
tr|F1LXF5|F1LXF5_RAT Protein Get4 OS=Rattus norvegicus GN=Get4 PE=1 SV=2	tr|F1LXF5|F1LXF5_RAT	0.00005
tr|B2RYJ1|B2RYJ1_RAT Anapc2 protein OS=Rattus norvegicus GN=Anapc2 PE=1 SV=1	tr|B2RYJ1|B2RYJ1_RAT	0.000025
tr|F1LM55|F1LM55_RAT Protein Ccar2 OS=Rattus norvegicus GN=Ccar2 PE=1 SV=1	tr|F1LM55|F1LM55_RAT	0.000025
tr|M0RAP5|M0RAP5_RAT Protein Sbf1 OS=Rattus norvegicus GN=Sbf1 PE=1 SV=1	tr|M0RAP5|M0RAP5_RAT	0
sp|A1L1K3|APC5_RAT Anaphase-promoting complex subunit 5 OS=Rattus norvegicus GN=Anapc5 PE=2 SV=1	sp|A1L1K3|APC5_RAT (+1)	0.00005
sp|B1H268|MCMBP_RAT Mini-chromosome maintenance complex-binding protein OS=Rattus norvegicus GN=Mcmbp PE=2 SV=1	sp|B1H268|MCMBP_RAT	0.00005
sp|O35092|TI17A_RAT Mitochondrial import inner membrane translocase subunit Tim17-A OS=Rattus norvegicus GN=Timm17a PE=2 SV=1	sp|O35092|TI17A_RAT	0.00005
sp|O35264|PA1B2_RAT Platelet-activating factor acetylhydrolase IB subunit beta OS=Rattus norvegicus GN=Pafah1b2 PE=1 SV=1	sp|O35264|PA1B2_RAT	0.00005
sp|P05696|KPCA_RAT Protein kinase C alpha type OS=Rattus norvegicus GN=Prkca PE=1 SV=3	sp|P05696|KPCA_RAT (+2)	0.00005
sp|P0C0A1|VPS25_RAT Vacuolar protein-sorting-associated protein 25 OS=Rattus norvegicus GN=Vps25 PE=1 SV=1	sp|P0C0A1|VPS25_RAT	0.00005
sp|P14056|ARAF_RAT Serine/threonine-protein kinase A-Raf OS=Rattus norvegicus GN=Araf PE=1 SV=1	sp|P14056|ARAF_RAT	0
sp|P28572-1|SC6A9_RAT Isoform 2 of Sodium- and chloride-dependent glycine transporter 1 OS=Rattus norvegicus GN=Slc6a9	sp|P28572-1|SC6A9_RAT	0.000025
sp|P61480|WDR12_RAT Ribosome biogenesis protein WDR12 OS=Rattus norvegicus GN=Wdr12 PE=2 SV=1	sp|P61480|WDR12_RAT	0.00005
sp|P70500|CDIPT_RAT CDP-diacylglycerol--inositol 3-phosphatidyltransferase OS=Rattus norvegicus GN=Cdipt PE=1 SV=1	sp|P70500|CDIPT_RAT	0.000025
sp|P70605|KCNN3_RAT Small conductance calcium-activated potassium channel protein 3 OS=Rattus norvegicus GN=Kcnn3 PE=2 SV=3	sp|P70605|KCNN3_RAT (+1)	0.000025
sp|Q08851-2|STX5_RAT Isoform 2 of Syntaxin-5 OS=Rattus norvegicus GN=Stx5	sp|Q08851-2|STX5_RAT (+1)	0.000025
sp|Q498E0|TXD12_RAT Thioredoxin domain-containing protein 12 OS=Rattus norvegicus GN=Txndc12 PE=2 SV=2	sp|Q498E0|TXD12_RAT	0.00005
sp|Q498M4|WDR5_RAT WD repeat-containing protein 5 OS=Rattus norvegicus GN=Wdr5 PE=1 SV=1	sp|Q498M4|WDR5_RAT	0.00005
sp|Q4KM64|JAGN1_RAT Protein jagunal homolog 1 OS=Rattus norvegicus GN=Jagn1 PE=2 SV=1	sp|Q4KM64|JAGN1_RAT	0.00005
sp|Q5BJT4|TXD15_RAT Thioredoxin domain-containing protein 15 OS=Rattus norvegicus GN=Txndc15 PE=2 SV=1	sp|Q5BJT4|TXD15_RAT	0.00005
sp|Q5HZA6-2|PPCEL_RAT Isoform 2 of Prolyl endopeptidase-like OS=Rattus norvegicus GN=Prepl	sp|Q5HZA6-2|PPCEL_RAT (+3)	0.000025
sp|Q5M939|HAT1_RAT Histone acetyltransferase type B catalytic subunit OS=Rattus norvegicus GN=Hat1 PE=2 SV=1	sp|Q5M939|HAT1_RAT	0.00005

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q5PPK9|TSSC1_RAT Protein TSSC1 OS=Rattus norvegicus GN=Tssc1 PE=2 SV=1	sp|Q5PPK9|TSSC1_RAT (+1)	0.00005
sp|Q5XFW8|SEC13_RAT Protein SEC13 homolog OS=Rattus norvegicus GN=Sec13 PE=1 SV=1	sp|Q5XFW8|SEC13_RAT	0.00005
sp|Q5XIE3|RM11_RAT 39S ribosomal protein L11, mitochondrial OS=Rattus norvegicus GN=Mrpl11 PE=2 SV=1	sp|Q5XIE3|RM11_RAT (+1)	0.000025
sp|Q5XIP1|PELO_RAT Protein pelota homolog OS=Rattus norvegicus GN=Pelo PE=1 SV=1	sp|Q5XIP1|PELO_RAT	0.000025
sp|Q62760|TOM20_RAT Mitochondrial import receptor subunit TOM20 homolog OS=Rattus norvegicus GN=Tomm20 PE=1 SV=2	sp|Q62760|TOM20_RAT	0.00005
sp|Q63055|ARFRP_RAT ADP-ribosylation factor-related protein 1 OS=Rattus norvegicus GN=Arfrp1 PE=2 SV=1	sp|Q63055|ARFRP_RAT	0.000025
sp|Q63486|RRAGA_RAT Ras-related GTP-binding protein A OS=Rattus norvegicus GN=Rraga PE=1 SV=1	sp|Q63486|RRAGA_RAT	0.000025
sp|Q64303|PAK2_RAT Serine/threonine-protein kinase PAK 2 OS=Rattus norvegicus GN=Pak2 PE=1 SV=1	sp|Q64303|PAK2_RAT	0.00005
sp|Q68FT1|COQ9_RAT Ubiquinone biosynthesis protein COQ9, mitochondrial OS=Rattus norvegicus GN=Coq9 PE=1 SV=2	sp|Q68FT1|COQ9_RAT	0.00005
sp|Q6AY04|CB047_RAT Uncharacterized protein C2orf47 homolog, mitochondrial OS=Rattus norvegicus PE=2 SV=1	sp|Q6AY04|CB047_RAT	0.00005
sp|Q6AYE2|SHLB1_RAT Endophilin-B1 OS=Rattus norvegicus GN=Sh3glb1 PE=2 SV=1	sp|Q6AYE2|SHLB1_RAT (+1)	0.00005
sp|Q6AYP7|5NT3B_RAT 7-methylguanosine phosphate-specific 5'-nucleotidase OS=Rattus norvegicus GN=Nt5c3b PE=2 SV=2	sp|Q6AYP7|5NT3B_RAT (+1)	0.00005
sp|Q6DGG0|PPID_RAT Peptidyl-prolyl cis-trans isomerase D OS=Rattus norvegicus GN=Ppid PE=1 SV=3	sp|Q6DGG0|PPID_RAT (+1)	0.000025
sp|Q6MGB5|DHB8_RAT Estradiol 17-beta-dehydrogenase 8 OS=Rattus norvegicus GN=Hsd17b8 PE=1 SV=1	sp|Q6MGB5|DHB8_RAT	0.00005
sp|Q6NX65|PDC10_RAT Programmed cell death protein 10 OS=Rattus norvegicus GN=Pdcd10 PE=2 SV=1	sp|Q6NX65|PDC10_RAT	0.000025
sp|Q91ZW1|TFAM_RAT Transcription factor A, mitochondrial OS=Rattus norvegicus GN=Tfam PE=2 SV=1	sp|Q91ZW1|TFAM_RAT	0.000025
sp|Q9JK41|COPT1_RAT High affinity copper uptake protein 1 OS=Rattus norvegicus GN=Slc31a1 PE=2 SV=1	sp|Q9JK41|COPT1_RAT	0.000025
sp|Q9JKW1|TIM22_RAT Mitochondrial import inner membrane translocase subunit Tim22 OS=Rattus norvegicus GN=Timm22 PE=2 SV=2	sp|Q9JKW1|TIM22_RAT	0.00005
sp|Q9R066-2|CXAR_RAT Isoform 2 of Coxsackievirus and adenovirus receptor homolog OS=Rattus norvegicus GN=Cxadr	sp|Q9R066-2|CXAR_RAT (+1)	0.000025
tr|A0A096MJW2|A0A096MJW2_RAT Fatty acyl-CoA reductase 1 OS=Rattus norvegicus GN=Far1 PE=4 SV=1	tr|A0A096MJW2|A0A096MJW2_RAT	0.00005
tr|A0A096MKH2|A0A096MKH2_RAT Protein Vta1 OS=Rattus norvegicus GN=Vta1 PE=1 SV=1	tr|A0A096MKH2|A0A096MKH2_RAT	0.000025
tr|A0A0G2JT06|A0A0G2JT06_RAT COP9 signalosome complex subunit 1 OS=Rattus norvegicus GN=Gps1 PE=1 SV=1	tr|A0A0G2JT06|A0A0G2JT06_RAT	0.000025
tr|A0A0G2JW12|A0A0G2JW12_RAT Complement C4 OS=Rattus norvegicus GN=C4a PE=1 SV=1	tr|A0A0G2JW12|A0A0G2JW12_RAT (+1)	0.00005
tr|A0A0G2JWK8|A0A0G2JWK8_RAT Protein Ewsr1 OS=Rattus norvegicus GN=Ewsr1 PE=1 SV=1	tr|A0A0G2JWK8|A0A0G2JWK8_RAT (+2)	0.00005
tr|A0A0G2K1L5|A0A0G2K1L5_RAT Receptor expression-enhancing protein OS=Rattus norvegicus GN=Reep2 PE=3 SV=1	tr|A0A0G2K1L5|A0A0G2K1L5_RAT (+1)	0.00005
tr|A0A0G2K4F6|A0A0G2K4F6_RAT Protein Srrm1 OS=Rattus norvegicus GN=Srrm1 PE=1 SV=1	tr|A0A0G2K4F6|A0A0G2K4F6_RAT	0.00005
tr|A0A0G2K9C4|A0A0G2K9C4_RAT Shootin-1 OS=Rattus norvegicus GN=Shtn1 PE=1 SV=1	tr|A0A0G2K9C4|A0A0G2K9C4_RAT	0.00005
tr|A0A0G2KAA3|A0A0G2KAA3_RAT Protein Ndufa3 OS=Rattus norvegicus GN=Ndufa3 PE=1 SV=1	tr|A0A0G2KAA3|A0A0G2KAA3_RAT (+1)	0
tr|A0A0G2KAW5|A0A0G2KAW5_RAT Protein Wdr48 OS=Rattus norvegicus GN=Wdr48 PE=1 SV=1	tr|A0A0G2KAW5|A0A0G2KAW5_RAT (+1)	0.00005
tr|A2VD07|A2VD07_RAT Cytochrome P450 4F5 OS=Rattus norvegicus GN=Cyp4f5 PE=2 SV=1	tr|A2VD07|A2VD07_RAT (+1)	0.00005
tr|B0BN83|B0BN83_RAT Armadillo repeat-containing protein 1 OS=Rattus norvegicus GN=Armc1 PE=1 SV=1	tr|B0BN83|B0BN83_RAT	0.00005
tr|B0BNJ4|B0BNJ4_RAT Ethylmalonic encephalopathy 1 OS=Rattus norvegicus GN=Ethe1 PE=1 SV=1	tr|B0BNJ4|B0BNJ4_RAT	0.000025
tr|B2GV65|B2GV65_RAT HIG1 domain family, member 2A OS=Rattus norvegicus GN=Higd2a PE=2 SV=1	tr|B2GV65|B2GV65_RAT	0.000025
tr|B2RYT0|B2RYT0_RAT Mitochondrial ribosomal protein S21 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Mrps21 PE=2 SV=1	tr|B2RYT0|B2RYT0_RAT (+1)	0.000025
tr|B2RYW7|B2RYW7_RAT Protein Srp14 OS=Rattus norvegicus GN=Srp14 PE=1 SV=1	tr|B2RYW7|B2RYW7_RAT	0.000025
tr|B3DMA5|B3DMA5_RAT CCR4-NOT transcription complex, subunit 7 OS=Rattus norvegicus GN=Cnot7 PE=1 SV=1	tr|B3DMA5|B3DMA5_RAT	0.000025
tr|D3ZCD7|D3ZCD7_RAT Protein Tp53rk OS=Rattus norvegicus GN=Tp53rk PE=1 SV=1	tr|D3ZCD7|D3ZCD7_RAT (+1)	0.000025
tr|D3ZCQ2|D3ZCQ2_RAT Protein Alg11 OS=Rattus norvegicus GN=Alg11 PE=1 SV=2	tr|D3ZCQ2|D3ZCQ2_RAT	0.00005
tr|D3ZD72|D3ZD72_RAT Protein Ncapg OS=Rattus norvegicus GN=Ncapg PE=1 SV=3	tr|D3ZD72|D3ZD72_RAT	0.00005
tr|D3ZGM5|D3ZGM5_RAT Protein Ccdc167 OS=Rattus norvegicus GN=Ccdc167 PE=1 SV=1	tr|D3ZGM5|D3ZGM5_RAT	0.000025
tr|D3ZL85|D3ZL85_RAT Protein Hccs OS=Rattus norvegicus GN=Hccs PE=1 SV=1	tr|D3ZL85|D3ZL85_RAT	0.00005
tr|D3ZS58|D3ZS58_RAT NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 OS=Rattus norvegicus GN=Ndufa2 PE=1 SV=1	tr|D3ZS58|D3ZS58_RAT	0.00005
tr|D3ZUB7|D3ZUB7_RAT Anaphase promoting complex subunit 4, isoform CRA_a OS=Rattus norvegicus GN=Anapc4 PE=1 SV=1	tr|D3ZUB7|D3ZUB7_RAT	0.00005
tr|D3ZVI9|D3ZVI9_RAT Parkinson disease 7 domain containing 1 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=LOC100911365 PE=1 SV=1	tr|D3ZVI9|D3ZVI9_RAT	0.000025
tr|D3ZW58|D3ZW58_RAT Protein Casc4 OS=Rattus norvegicus GN=Casc4 PE=4 SV=3	tr|D3ZW58|D3ZW58_RAT	0.00005
tr|D4A1U8|D4A1U8_RAT Protein RGD1311744 OS=Rattus norvegicus GN=RGD1311744 PE=1 SV=3	tr|D4A1U8|D4A1U8_RAT	0.00005
tr|D4A4Y0|D4A4Y0_RAT Protein Exosc4 OS=Rattus norvegicus GN=Exosc4 PE=1 SV=1	tr|D4A4Y0|D4A4Y0_RAT	0.000025
tr|D4A830|D4A830_RAT Protein Ppa2 OS=Rattus norvegicus GN=Ppa2 PE=1 SV=2	tr|D4A830|D4A830_RAT	0.000025
tr|D4A9A3|D4A9A3_RAT Protein Cenpv OS=Rattus norvegicus GN=Cenpv PE=1 SV=3	tr|D4A9A3|D4A9A3_RAT	0.000025
tr|D4AAH6|D4AAH6_RAT Down syndrome critical region homolog 2 (Human) (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Psmg1 PE=1 SV=3	tr|D4AAH6|D4AAH6_RAT	0.000025
tr|D4AB01|D4AB01_RAT Histidine triad nucleotide binding protein 2 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Hint2 PE=1 SV=1	tr|D4AB01|D4AB01_RAT	0.000025
tr|D4ABC7|D4ABC7_RAT Protein Uprt OS=Rattus norvegicus GN=Uprt PE=4 SV=1	tr|D4ABC7|D4ABC7_RAT	0.00005
tr|D4AE02|D4AE02_RAT Protein Fam98b OS=Rattus norvegicus GN=Fam98b PE=1 SV=3	tr|D4AE02|D4AE02_RAT	0.00005
tr|E9PU02|E9PU02_RAT Protein Trappc9 OS=Rattus norvegicus GN=Trappc9 PE=1 SV=3	tr|E9PU02|E9PU02_RAT	0.00005
tr|F1LNK6|F1LNK6_RAT DNA primase OS=Rattus norvegicus GN=Prim1 PE=3 SV=3	tr|F1LNK6|F1LNK6_RAT	0.000025
tr|F1LQH9|F1LQH9_RAT Protein Bag2 OS=Rattus norvegicus GN=Bag2 PE=4 SV=2	tr|F1LQH9|F1LQH9_RAT	0.00005
tr|F1M5V2|F1M5V2_RAT Protein Glipr2 OS=Rattus norvegicus GN=Glipr2 PE=1 SV=3	tr|F1M5V2|F1M5V2_RAT	0.00005
tr|F1M8H2|F1M8H2_RAT Protein Wars2 OS=Rattus norvegicus GN=Wars2 PE=1 SV=2	tr|F1M8H2|F1M8H2_RAT	0.00005
tr|F7FFR1|F7FFR1_RAT Protein Rars2 OS=Rattus norvegicus GN=Rars2 PE=1 SV=1	tr|F7FFR1|F7FFR1_RAT	0.00005
tr|G3V7U8|G3V7U8_RAT Actin-related protein 2/3 complex subunit 5 OS=Rattus norvegicus GN=Arpc5l PE=1 SV=2	tr|G3V7U8|G3V7U8_RAT	0.000025
tr|G3V8V4|G3V8V4_RAT Longevity assurance homolog 2 (S. cerevisiae) OS=Rattus norvegicus GN=Cers2 PE=1 SV=1	tr|G3V8V4|G3V8V4_RAT	0.00005
tr|G3V949|G3V949_RAT CAP-Gly domain-containing linker protein 2 OS=Rattus norvegicus GN=Clip2 PE=1 SV=1	tr|G3V949|G3V949_RAT	0.00005
tr|G3V9D1|G3V9D1_RAT Phosphoinositide phospholipase C OS=Rattus norvegicus GN=Plcd1 PE=1 SV=1	tr|G3V9D1|G3V9D1_RAT	0.000025
tr|M0R9L3|M0R9L3_RAT Sorting nexin OS=Rattus norvegicus GN=Snx9 PE=1 SV=2	tr|M0R9L3|M0R9L3_RAT	0.000025
tr|M0RCH5|M0RCH5_RAT Glucosamine-6-phosphate isomerase OS=Rattus norvegicus GN=Gnpda1 PE=1 SV=2	tr|M0RCH5|M0RCH5_RAT	0.000025

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|M0RCP9|M0RCP9_RAT Protein Pin4 OS=Rattus norvegicus GN=Pin4 PE=1 SV=1	tr|M0RCP9|M0RCP9_RAT	0.000025
tr|Q3KR55|Q3KR55_RAT Protein U2af1 OS=Rattus norvegicus GN=U2af1 PE=1 SV=1	tr|Q3KR55|Q3KR55_RAT	0.00005
tr|Q498C9|Q498C9_RAT Protein Zfp207 OS=Rattus norvegicus GN=Zfp207 PE=1 SV=1	tr|Q498C9|Q498C9_RAT	0.000025
tr|Q5XIJ7|Q5XIJ7_RAT Calcium binding protein 39-like OS=Rattus norvegicus GN=Cab39l PE=1 SV=1	tr|Q5XIJ7|Q5XIJ7_RAT	0.000075
tr|Q642A9|Q642A9_RAT Protein Vps16 OS=Rattus norvegicus GN=Vps16 PE=1 SV=1	tr|Q642A9|Q642A9_RAT	0.000025
tr|Q6IRF8|Q6IRF8_RAT ATPase, H+ transporting, lysosomal accessory protein 1 OS=Rattus norvegicus GN=Atp6ap1 PE=1 SV=1	tr|Q6IRF8|Q6IRF8_RAT	0.000025
tr|Q6P2A5|Q6P2A5_RAT GTP:AMP phosphotransferase AK3, mitochondrial OS=Rattus norvegicus GN=Ak3 PE=1 SV=1	tr|Q6P2A5|Q6P2A5_RAT	0.00005
tr|Q76IJ9|Q76IJ9_RAT ELAV-like protein OS=Rattus norvegicus GN=Elavl3 PE=2 SV=1	tr|Q76IJ9|Q76IJ9_RAT	0.000025
tr|Q7TP77|Q7TP77_RAT Aa2-277 OS=Rattus norvegicus GN=Mrpl49 PE=1 SV=1	tr|Q7TP77|Q7TP77_RAT	0.00005
tr|Q7TQN4|Q7TQN4_RAT Protein Rela OS=Rattus norvegicus GN=Rela PE=1 SV=1	tr|Q7TQN4|Q7TQN4_RAT	0.000025
tr|Q9ET50|Q9ET50_RAT Protein Stau1 OS=Rattus norvegicus GN=Stau1 PE=1 SV=1	tr|Q9ET50|Q9ET50_RAT	0.000025
tr|Q9JK59|Q9JK59_RAT BAK protein OS=Rattus norvegicus GN=Bak1 PE=1 SV=1	tr|Q9JK59|Q9JK59_RAT	0.000025
tr|D4A7M6|D4A7M6_RAT Protein LOC100359539 OS=Rattus norvegicus GN=LOC100359539 PE=4 SV=1	tr|D4A7M6|D4A7M6_RAT	0.000025
tr|D4AE03|D4AE03_RAT Protein Engase OS=Rattus norvegicus GN=Engase PE=1 SV=1	tr|D4AE03|D4AE03_RAT	0.00005
sp|P22062|PIMT_RAT Protein-L-isoaspartate(D-aspartate) O-methyltransferase OS=Rattus norvegicus GN=Pcmt1 PE=1 SV=2	sp|P22062|PIMT_RAT	0.000025
sp|Q9EPJ3|RT26_RAT 28S ribosomal protein S26, mitochondrial OS=Rattus norvegicus GN=Mrps26 PE=1 SV=1	sp|Q9EPJ3|RT26_RAT	0.00005
sp|P81128|RHG35_RAT Rho GTPase-activating protein 35 OS=Rattus norvegicus GN=Arhgap35 PE=1 SV=2	sp|P81128|RHG35_RAT (+2)	0
tr|A8QIC3|A8QIC3_RAT DnaJ (Hsp40) homolog, subfamily C, member 9 (Predicted) OS=Rattus norvegicus GN=Dnajc9 PE=1 SV=1	tr|A8QIC3|A8QIC3_RAT	0.00005
tr|A0A0G2JXM6|A0A0G2JXM6_RAT RNA-binding protein 42 OS=Rattus norvegicus GN=Rbm42 PE=1 SV=1	tr|A0A0G2JXM6|A0A0G2JXM6_RAT (+1)	0.000025
tr|F1LUK1|F1LUK1_RAT Protein Lrrc75a OS=Rattus norvegicus GN=Lrrc75a PE=4 SV=2	tr|F1LUK1|F1LUK1_RAT	0.00005
tr|A0A0G2JVZ6|A0A0G2JVZ6_RAT Protein Itgav OS=Rattus norvegicus GN=Itgav PE=1 SV=1	tr|A0A0G2JVZ6|A0A0G2JVZ6_RAT (+1)	0.000025
tr|A0A0G2K1U5|A0A0G2K1U5_RAT Protein FAM134A OS=Rattus norvegicus GN=Fam134a PE=1 SV=1	tr|A0A0G2K1U5|A0A0G2K1U5_RAT	0.00005
tr|D3ZES2|D3ZES2_RAT Protein Trappc6b OS=Rattus norvegicus GN=Trappc6b PE=1 SV=1	tr|D3ZES2|D3ZES2_RAT	0.000025
tr|A0A0G2K344|A0A0G2K344_RAT Protein Pik3ca OS=Rattus norvegicus GN=Pik3ca PE=4 SV=1	tr|A0A0G2K344|A0A0G2K344_RAT	0.00005
tr|A0A0G2JYN4|A0A0G2JYN4_RAT Protein Ergic2 OS=Rattus norvegicus GN=Ergic2 PE=1 SV=1	tr|A0A0G2JYN4|A0A0G2JYN4_RAT	0.00005
sp|O88923-1|AGRL2_RAT Isoform 2 of Adhesion G protein-coupled receptor L2 OS=Rattus norvegicus GN=Adgrl2	sp|O88923-1|AGRL2_RAT (+11)	0
tr|G3V829|G3V829_RAT Protein Fubp3 OS=Rattus norvegicus GN=Fubp3 PE=1 SV=1	tr|G3V829|G3V829_RAT	0.00005
tr|A0A0G2K8L9|A0A0G2K8L9_RAT Protein Mrps28 OS=Rattus norvegicus GN=Mrps28 PE=1 SV=1	tr|A0A0G2K8L9|A0A0G2K8L9_RAT	0.000025
tr|A0A0G2JTI7|A0A0G2JTI7_RAT Protein Prpf3 OS=Rattus norvegicus GN=Prpf3 PE=1 SV=1	tr|A0A0G2JTI7|A0A0G2JTI7_RAT	0.000025
tr|D3ZJY1|D3ZJY1_RAT Protein Mrpl28 OS=Rattus norvegicus GN=Mrpl28 PE=1 SV=1	tr|D3ZJY1|D3ZJY1_RAT	0.00005
tr|D4A4L4|D4A4L4_RAT Protein Map7d2 OS=Rattus norvegicus GN=Map7d2 PE=1 SV=3	tr|D4A4L4|D4A4L4_RAT	0.000025
sp|P60522|GBRL2_RAT Gamma-aminobutyric acid receptor-associated protein-like 2 OS=Rattus norvegicus GN=Gabarapl2 PE=3 SV=1	sp|P60522|GBRL2_RAT	0.00005
sp|Q6AYI5|SHOC2_RAT Leucine-rich repeat protein SHOC-2 OS=Rattus norvegicus GN=Shoc2 PE=2 SV=1	sp|Q6AYI5|SHOC2_RAT	0.00005
sp|Q6GX83|GXLT1_RAT Glucoside xylosyltransferase 1 OS=Rattus norvegicus GN=Gxylt1 PE=2 SV=2	sp|Q6GX83|GXLT1_RAT (+1)	0.000025
sp|Q6P767|PTTG_RAT Pituitary tumor-transforming gene 1 protein-interacting protein OS=Rattus norvegicus GN=Pttg1ip PE=2 SV=1	sp|Q6P767|PTTG_RAT	0
tr|A0A0G2K2V1|A0A0G2K2V1_RAT Protein Usp46 OS=Rattus norvegicus GN=Usp46 PE=1 SV=1	tr|A0A0G2K2V1|A0A0G2K2V1_RAT (+1)	0.00005
tr|Q1KQ07|Q1KQ07_RAT Signal transducer and activator of transcription OS=Rattus norvegicus GN=Stat6 PE=1 SV=1	tr|Q1KQ07|Q1KQ07_RAT	0.00005
tr|Q6AYA2|Q6AYA2_RAT Protein Vrk1 OS=Rattus norvegicus GN=Vrk1 PE=1 SV=1	tr|Q6AYA2|Q6AYA2_RAT	0.000025
sp|D4A631|BIG1_RAT Brefeldin A-inhibited guanine nucleotide-exchange protein 1 OS=Rattus norvegicus GN=Arfgef1 PE=1 SV=1	sp|D4A631|BIG1_RAT	0.000025
sp|Q562C2|BOP1_RAT Ribosome biogenesis protein BOP1 OS=Rattus norvegicus GN=Bop1 PE=1 SV=1	sp|Q562C2|BOP1_RAT	0.00005
tr|Q4KLI7|Q4KLI7_RAT Protein Sf3a3 OS=Rattus norvegicus GN=Sf3a3 PE=1 SV=1	tr|Q4KLI7|Q4KLI7_RAT	0.00005
sp|O88902|PTN23_RAT Tyrosine-protein phosphatase non-receptor type 23 (Fragment) OS=Rattus norvegicus GN=Ptpn23 PE=1 SV=2	sp|O88902|PTN23_RAT (+1)	0.000025
tr|D4A305|D4A305_RAT Coiled-coil domain containing 58 (Predicted), isoform CRA_c OS=Rattus norvegicus GN=Ccdc58 PE=1 SV=1	tr|D4A305|D4A305_RAT	0.000025
tr|D3ZZM0|D3ZZM0_RAT Protein Slc39a14 OS=Rattus norvegicus GN=Slc39a14 PE=1 SV=1	tr|D3ZZM0|D3ZZM0_RAT	0.000025
sp|Q91ZN1|COR1A_RAT Coronin-1A OS=Rattus norvegicus GN=Coro1a PE=1 SV=3	sp|Q91ZN1|COR1A_RAT	0.00005
sp|Q6P5P3|TTC9C_RAT Tetratricopeptide repeat protein 9C OS=Rattus norvegicus GN=Ttc9c PE=2 SV=1	sp|Q6P5P3|TTC9C_RAT	0.00005
sp|O08629|TIF1B_RAT Transcription intermediary factor 1-beta OS=Rattus norvegicus GN=Trim28 PE=1 SV=2	sp|O08629|TIF1B_RAT	0.000025
tr|A0A0G2K302|A0A0G2K302_RAT Protein Ap3s2 OS=Rattus norvegicus GN=Ap3s2 PE=1 SV=1	tr|A0A0G2K302|A0A0G2K302_RAT (+1)	0.00005
sp|Q6AYF6|GL8D1_RAT Glycosyltransferase 8 domain-containing protein 1 OS=Rattus norvegicus GN=Glt8d1 PE=2 SV=1	sp|Q6AYF6|GL8D1_RAT (+1)	0.000025
tr|D3ZBP3|D3ZBP3_RAT Exosome component 2 (Predicted) OS=Rattus norvegicus GN=Exosc2 PE=1 SV=1	tr|D3ZBP3|D3ZBP3_RAT	0.00005
tr|A0A0G2K2Z2|A0A0G2K2Z2_RAT Protein Inpp5k OS=Rattus norvegicus GN=Inpp5k PE=1 SV=1	tr|A0A0G2K2Z2|A0A0G2K2Z2_RAT (+1)	0.00005
tr|D3ZMX6|D3ZMX6_RAT Protein Sntb2 OS=Rattus norvegicus GN=Sntb2 PE=1 SV=3	tr|D3ZMX6|D3ZMX6_RAT	0.00005
sp|P49803|RGS7_RAT Regulator of G-protein signaling 7 OS=Rattus norvegicus GN=Rgs7 PE=1 SV=2	sp|P49803|RGS7_RAT (+1)	0.00005
tr|D4AAV0|D4AAV0_RAT Interferon regulatory factor 6 (Predicted) OS=Rattus norvegicus GN=Irf6 PE=1 SV=1	tr|D4AAV0|D4AAV0_RAT	0
tr|D3ZTN1|D3ZTN1_RAT Protein Tesc OS=Rattus norvegicus GN=Tesc PE=4 SV=1	tr|D3ZTN1|D3ZTN1_RAT	0.000025
sp|Q9R085|UBP15_RAT Ubiquitin carboxyl-terminal hydrolase 15 OS=Rattus norvegicus GN=Usp15 PE=1 SV=1	sp|Q9R085|UBP15_RAT (+1)	0.000025
sp|Q920A6|RISC_RAT Retinoid-inducible serine carboxypeptidase OS=Rattus norvegicus GN=Scpep1 PE=2 SV=1	sp|Q920A6|RISC_RAT	0.000025
tr|D3ZZL3|D3ZZL3_RAT Protein Naglu OS=Rattus norvegicus GN=Naglu PE=1 SV=2	tr|D3ZZL3|D3ZZL3_RAT	0.00005
tr|A0A0G2JY22|A0A0G2JY22_RAT Protein Dip2b OS=Rattus norvegicus GN=Dip2b PE=1 SV=1	tr|A0A0G2JY22|A0A0G2JY22_RAT	0.00005
tr|G3V7U6|G3V7U6_RAT Calpain-5 OS=Rattus norvegicus GN=Capn5 PE=1 SV=2	tr|G3V7U6|G3V7U6_RAT	0.00005
sp|Q3T1G7|COG7_RAT Conserved oligomeric Golgi complex subunit 7 OS=Rattus norvegicus GN=Cog7 PE=2 SV=1	sp|Q3T1G7|COG7_RAT	0.000025
sp|Q68G38|TOR1A_RAT Torsin-1A OS=Rattus norvegicus GN=Tor1a PE=1 SV=1	sp|Q68G38|TOR1A_RAT	0.000025
tr|D3ZZ38|D3ZZ38_RAT Sorting nexin OS=Rattus norvegicus GN=Snx18 PE=1 SV=1	tr|D3ZZ38|D3ZZ38_RAT	0.000025
tr|F1LS72|F1LS72_RAT Protein Uba2 OS=Rattus norvegicus GN=Uba2 PE=1 SV=3	tr|F1LS72|F1LS72_RAT	0
sp|P63031|MPC1_RAT Mitochondrial pyruvate carrier 1 OS=Rattus norvegicus GN=Mpc1 PE=3 SV=1	sp|P63031|MPC1_RAT	0

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

tr|D4A4R1|D4A4R1_RAT Protein Eml3 OS=Rattus norvegicus GN=Eml3 PE=1 SV=2	tr|D4A4R1|D4A4R1_RAT	0.000025
tr|D4AD89|D4AD89_RAT Protein Sez6l OS=Rattus norvegicus GN=Sez6l PE=4 SV=3	tr|D4AD89|D4AD89_RAT	0
tr|A0A0G2K7L0|A0A0G2K7L0_RAT 28S ribosomal protein S10, mitochondrial OS=Rattus norvegicus GN=Mrps10 PE=1 SV=1	tr|A0A0G2K7L0|A0A0G2K7L0_RAT	0.000025
tr|Q5XI26|Q5XI26_RAT Signal transducer and activator of transcription OS=Rattus norvegicus GN=Stat2 PE=1 SV=1	tr|Q5XI26|Q5XI26_RAT	0.00005
sp|D3ZUQ0|RIPL1_RAT RILP-like protein 1 OS=Rattus norvegicus GN=Rilpl1 PE=1 SV=1	sp|D3ZUQ0|RIPL1_RAT	0.00005
sp|P19132|FRIH_RAT Ferritin heavy chain OS=Rattus norvegicus GN=Fth1 PE=1 SV=3	sp|P19132|FRIH_RAT (+1)	0.00005
sp|Q4FZZ1|PXK_RAT PX domain-containing protein kinase-like protein OS=Rattus norvegicus GN=Pxk PE=2 SV=1	sp|Q4FZZ1|PXK_RAT	0.000025
sp|Q5PQN9|RM38_RAT 39S ribosomal protein L38, mitochondrial OS=Rattus norvegicus GN=Mrpl38 PE=2 SV=2	sp|Q5PQN9|RM38_RAT	0.00005
sp|Q91ZQ0|VMP1_RAT Vacuole membrane protein 1 OS=Rattus norvegicus GN=Vmp1 PE=1 SV=1	sp|Q91ZQ0|VMP1_RAT	0.000025
tr|A0A0G2K562|A0A0G2K562_RAT Disintegrin and metalloproteinase domain-containing protein 10 OS=Rattus norvegicus GN=Adam10 PE=1 SV=1	tr|A0A0G2K562|A0A0G2K562_RAT	0.00005
tr|B5DEL8|B5DEL8_RAT NADH dehydrogenase (Ubiquinone) Fe-S protein 5 OS=Rattus norvegicus GN=Ndufs5 PE=1 SV=1	tr|B5DEL8|B5DEL8_RAT	0.00005
tr|D3ZAI6|D3ZAI6_RAT Protein Nt5dc3 OS=Rattus norvegicus GN=Nt5dc3 PE=1 SV=2	tr|D3ZAI6|D3ZAI6_RAT	0.000025
tr|F1LQP0|F1LQP0_RAT Cytohesin-3 (Fragment) OS=Rattus norvegicus GN=Cyth3 PE=4 SV=3	tr|F1LQP0|F1LQP0_RAT	0.000025
tr|G3V631|G3V631_RAT Protein Rabgef1 OS=Rattus norvegicus GN=Rabgef1 PE=1 SV=1	tr|G3V631|G3V631_RAT	0.000025
sp|Q810F4|FAM3C_RAT Protein FAM3C OS=Rattus norvegicus GN=Fam3c PE=2 SV=1	sp|Q810F4|FAM3C_RAT (+1)	0.00005
sp|Q6U6G5|ZC3HF_RAT Zinc finger CCCH domain-containing protein 15 OS=Rattus norvegicus GN=Zc3h15 PE=1 SV=1	sp|Q6U6G5|ZC3HF_RAT	0.00005
tr|D3ZZU4|D3ZZU4_RAT Protein Tmem160 OS=Rattus norvegicus GN=Tmem160 PE=1 SV=1	tr|D3ZZU4|D3ZZU4_RAT	0.00005
tr|A0A096MIV6|A0A096MIV6_RAT Protein Wbscr17 (Fragment) OS=Rattus norvegicus GN=Wbscr17 PE=4 SV=1	tr|A0A096MIV6|A0A096MIV6_RAT	0.000025
tr|A0A0G2QC38|A0A0G2QC38_RAT Protein Srsf11 OS=Rattus norvegicus GN=Srsf11 PE=1 SV=1	tr|A0A0G2QC38|A0A0G2QC38_RAT	0.00005
sp|O08776-2|NDUF3_RAT Isoform 2 of NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3 OS=Rattus norvegicus GN=Ndufaf3	sp|O08776-2|NDUF3_RAT (+3)	0.000025
tr|F1M801|F1M801_RAT Anaphase promoting complex subunit 1 (Predicted) OS=Rattus norvegicus GN=Anapc1 PE=1 SV=2	tr|F1M801|F1M801_RAT	0.00005
tr|Q5XHY0|Q5XHY0_RAT DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 OS=Rattus norvegicus GN=Ddx18 PE=1 SV=1	tr|Q5XHY0|Q5XHY0_RAT	0.00005
tr|D3ZFB2|D3ZFB2_RAT Protein Luc7l3 OS=Rattus norvegicus GN=Luc7l3 PE=1 SV=1	tr|D3ZFB2|D3ZFB2_RAT	0.00005
sp|Q498T4|RM02_RAT 39S ribosomal protein L2, mitochondrial OS=Rattus norvegicus GN=Mrpl2 PE=2 SV=1	sp|Q498T4|RM02_RAT	0.00005
tr|M0RAK2|M0RAK2_RAT Protein LOC684270 OS=Rattus norvegicus GN=LOC684270 PE=1 SV=2	tr|M0RAK2|M0RAK2_RAT	0.00005
tr|D3ZLT7|D3ZLT7_RAT Protein RGD1305350 OS=Rattus norvegicus GN=RGD1305350 PE=1 SV=1	tr|D3ZLT7|D3ZLT7_RAT	0.000025
tr|Q5U2Q5|Q5U2Q5_RAT Ribonucleoside-diphosphate reductase OS=Rattus norvegicus GN=Rrm1 PE=1 SV=1	tr|Q5U2Q5|Q5U2Q5_RAT	0.00005
sp|Q5BJK8|GOLI4_RAT Golgi integral membrane protein 4 OS=Rattus norvegicus GN=Golim4 PE=1 SV=2	sp|Q5BJK8|GOLI4_RAT (+2)	0.00005
sp|Q9WVK3|PECR_RAT Peroxisomal trans-2-enoyl-CoA reductase OS=Rattus norvegicus GN=Pecr PE=2 SV=1	sp|Q9WVK3|PECR_RAT (+1)	0.000025
tr|D3ZV15|D3ZV15_RAT Protein Cbl OS=Rattus norvegicus GN=Cbl PE=1 SV=1	tr|D3ZV15|D3ZV15_RAT	0.000025
tr|D4AEK9|D4AEK9_RAT Protein Ccdc6 OS=Rattus norvegicus GN=Ccdc6 PE=1 SV=3	tr|D4AEK9|D4AEK9_RAT	0.000025
sp|D3ZXD8|TM245_RAT Transmembrane protein 245 OS=Rattus norvegicus GN=Tmem245 PE=1 SV=1	sp|D3ZXD8|TM245_RAT (+1)	0.000025
sp|Q5BJX0|NTM1A_RAT N-terminal Xaa-Pro-Lys N-methyltransferase 1 OS=Rattus norvegicus GN=Ntmt1 PE=2 SV=3	sp|Q5BJX0|NTM1A_RAT	0.00005
tr|E9PT53|E9PT53_RAT Protein Wfs1 OS=Rattus norvegicus GN=Wfs1 PE=1 SV=2	tr|E9PT53|E9PT53_RAT	0.000025
tr|Q642E3|Q642E3_RAT CDK5 regulatory subunit associated protein 3, isoform CRA_b OS=Rattus norvegicus GN=Cdk5rap3 PE=1 SV=1	tr|Q642E3|Q642E3_RAT	0.000025
tr|F1MAF5|F1MAF5_RAT Protein Pcid2 OS=Rattus norvegicus GN=Pcid2 PE=1 SV=2	tr|F1MAF5|F1MAF5_RAT	0.00005
sp|O54975|XPP1_RAT Xaa-Pro aminopeptidase 1 OS=Rattus norvegicus GN=Xpnpep1 PE=1 SV=1	sp|O54975|XPP1_RAT (+1)	0.000025
tr|D3ZNS8|D3ZNS8_RAT Achalasia, adrenocortical insufficiency, alacrimia (Allgrove, triple-A) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Aaas PE=1 SV=2	tr|D3ZNS8|D3ZNS8_RAT	0.00005
tr|D4A2I4|D4A2I4_RAT ORM1-like 2 (S. cerevisiae) (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Ormdl2 PE=1 SV=1	tr|D4A2I4|D4A2I4_RAT	0.00005
sp|P47245-2|NRDC_RAT Isoform 2 of Nardilysin OS=Rattus norvegicus GN=Nrd1	sp|P47245-2|NRDC_RAT (+1)	0
tr|A0A0G2K9R9|A0A0G2K9R9_RAT Protein Psme4 OS=Rattus norvegicus GN=Psme4 PE=1 SV=1	tr|A0A0G2K9R9|A0A0G2K9R9_RAT (+1)	0.00005
sp|P97887|PSN1_RAT Presenilin-1 OS=Rattus norvegicus GN=Psen1 PE=1 SV=1	sp|P97887|PSN1_RAT	0.00005
sp|Q63470-2|DYR1A_RAT Isoform Short of Dual specificity tyrosine-phosphorylation-regulated kinase 1A OS=Rattus norvegicus GN=Dyrk1a	sp|Q63470-2|DYR1A_RAT (+1)	0.00005
tr|A0A0G2K4S6|A0A0G2K4S6_RAT Protein Elmo1 OS=Rattus norvegicus GN=Elmo1 PE=1 SV=1	tr|A0A0G2K4S6|A0A0G2K4S6_RAT (+1)	0.00005
sp|P51792-2|CLCN3_RAT Isoform 2 of H(+)/Cl(-) exchange transporter 3 OS=Rattus norvegicus GN=Clcn3	sp|P51792-2|CLCN3_RAT (+1)	0.00005
sp|Q9ERR2|COMD5_RAT COMM domain-containing protein 5 OS=Rattus norvegicus GN=Commd5 PE=2 SV=1	sp|Q9ERR2|COMD5_RAT (+1)	0.00005
Cluster of tr|D4A3I5|D4A3I5_RAT LOC361774 (Predicted) OS=Rattus norvegicus GN=Fam160b1 PE=1 SV=1 (tr|D4A3I5|D4A3I5_RAT)	tr|D4A3I5|D4A3I5_RAT	0.00005
tr|D4A3I5|D4A3I5_RAT LOC361774 (Predicted) OS=Rattus norvegicus GN=Fam160b1 PE=1 SV=1	tr|D4A3I5|D4A3I5_RAT	0.00005
Cluster of tr|Q6V9V9|Q6V9V9_RAT Protein Stk25 OS=Rattus norvegicus GN=Stk25 PE=1 SV=1 (tr|Q6V9V9|Q6V9V9_RAT)	tr|Q6V9V9|Q6V9V9_RAT	0.000025
tr|Q6V9V9|Q6V9V9_RAT Protein Stk25 OS=Rattus norvegicus GN=Stk25 PE=1 SV=1	tr|Q6V9V9|Q6V9V9_RAT	0.000025
Cluster of tr|A0A0G2JTR4|A0A0G2JTR4_RAT Protein Abr OS=Rattus norvegicus GN=Abr PE=1 SV=1 (tr|A0A0G2JTR4|A0A0G2JTR4_RAT)	tr|A0A0G2JTR4|A0A0G2JTR4_RAT [2]	0.00005
tr|A0A0G2JTR4|A0A0G2JTR4_RAT Protein Abr OS=Rattus norvegicus GN=Abr PE=1 SV=1	tr|A0A0G2JTR4|A0A0G2JTR4_RAT (+1)	0.00005
sp|Q5BJU7|WASF1_RAT Wiskott-Aldrich syndrome protein family member 1 OS=Rattus norvegicus GN=Wasf1 PE=1 SV=1	sp|Q5BJU7|WASF1_RAT	0.000025
tr|G3V6Q6|G3V6Q6_RAT Guanine nucleotide binding protein, alpha 11 OS=Rattus norvegicus GN=Gna11 PE=1 SV=1	tr|G3V6Q6|G3V6Q6_RAT	0.000075
sp|P09117|ALDOC_RAT Fructose-bisphosphate aldolase C OS=Rattus norvegicus GN=Aldoc PE=1 SV=3	sp|P09117|ALDOC_RAT (+1)	0.0001
tr|B1WBS4|B1WBS4_RAT Protein Vps26b OS=Rattus norvegicus GN=Vps26b PE=1 SV=1	tr|B1WBS4|B1WBS4_RAT	0.000075
sp|Q9Z2K5|LST8_RAT Target of rapamycin complex subunit LST8 OS=Rattus norvegicus GN=Mlst8 PE=1 SV=2	sp|Q9Z2K5|LST8_RAT (+1)	0.00005
sp|A1L1I3|NUMBL_RAT Numb-like protein OS=Rattus norvegicus GN=Numbl PE=1 SV=1	sp|A1L1I3|NUMBL_RAT (+1)	0.00005
sp|O08697|ARL2_RAT ADP-ribosylation factor-like protein 2 OS=Rattus norvegicus GN=Arl2 PE=1 SV=1	sp|O08697|ARL2_RAT (+1)	0
sp|P0C546|S2542_RAT Mitochondrial coenzyme A transporter SLC25A42 OS=Rattus norvegicus GN=Slc25a42 PE=2 SV=1	sp|P0C546|S2542_RAT	0
sp|P60825|CIRBP_RAT Cold-inducible RNA-binding protein OS=Rattus norvegicus GN=Cirbp PE=2 SV=1	sp|P60825|CIRBP_RAT	0
sp|Q499P8|RUS1_RAT RUS1 family protein C16orf58 homolog OS=Rattus norvegicus PE=2 SV=1	sp|Q499P8|RUS1_RAT	0.00005
sp|Q569B7|RWDD4_RAT RWD domain-containing protein 4 OS=Rattus norvegicus GN=Rwdd4 PE=2 SV=1	sp|Q569B7|RWDD4_RAT (+1)	0.00005
sp|Q5BK48|TTC5_RAT Tetratricopeptide repeat protein 5 OS=Rattus norvegicus GN=Ttc5 PE=2 SV=1	sp|Q5BK48|TTC5_RAT	0
sp|Q5U2U7|MCES_RAT mRNA cap guanine-N7 methyltransferase OS=Rattus norvegicus GN=Rnmt PE=1 SV=1	sp|Q5U2U7|MCES_RAT	0

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q5XII0|EPDR1_RAT Mammalian ependymin-related protein 1 OS=Rattus norvegicus GN=Epdr1 PE=2 SV=1	sp|Q5XII0|EPDR1_RAT	0
sp|Q62848-2|ARFG1_RAT Isoform 2 of ADP-ribosylation factor GTPase-activating protein 1 OS=Rattus norvegicus GN=Arfgap1	sp|Q62848-2|ARFG1_RAT (+4)	0
sp|Q62904|DHB7_RAT 3-keto-steroid reductase OS=Rattus norvegicus GN=Hsd17b7 PE=1 SV=1	sp|Q62904|DHB7_RAT (+1)	0.00005
sp|Q78EG7|TP4A1_RAT Protein tyrosine phosphatase type IVA 1 OS=Rattus norvegicus GN=Ptp4a1 PE=1 SV=1	sp|Q78EG7|TP4A1_RAT	0.00005
sp|Q9JJP9|UBQL1_RAT Ubiquilin-1 OS=Rattus norvegicus GN=Ubqln1 PE=1 SV=1	sp|Q9JJP9|UBQL1_RAT	0
sp|Q9QYM2|PARG_RAT Poly(ADP-ribose) glycohydrolase OS=Rattus norvegicus GN=Parg PE=1 SV=1	sp|Q9QYM2|PARG_RAT (+1)	0.00005
tr|A0A0G2JXG7|A0A0G2JXG7_RAT Protein Lrrc16a OS=Rattus norvegicus GN=Lrrc16a PE=1 SV=1	tr|A0A0G2JXG7|A0A0G2JXG7_RAT (+1)	0.00005
tr|A0A0G2K6E8|A0A0G2K6E8_RAT Protein Spag9 OS=Rattus norvegicus GN=Spag9 PE=1 SV=1	tr|A0A0G2K6E8|A0A0G2K6E8_RAT (+1)	0
tr|B1WC56|B1WC56_RAT Nola2 protein OS=Rattus norvegicus GN=Nhp2 PE=1 SV=1	tr|B1WC56|B1WC56_RAT	0.00005
tr|D3ZG58|D3ZG58_RAT Protein Zwilch OS=Rattus norvegicus GN=Zwilch PE=4 SV=3	tr|D3ZG58|D3ZG58_RAT	0.00005
tr|D3ZIX4|D3ZIX4_RAT Protein H1fx OS=Rattus norvegicus GN=H1fx PE=1 SV=1	tr|D3ZIX4|D3ZIX4_RAT	0
tr|D3ZJ86|D3ZJ86_RAT Sodium/hydrogen exchanger OS=Rattus norvegicus GN=Slc9a6 PE=1 SV=2	tr|D3ZJ86|D3ZJ86_RAT	0.00005
tr|D3ZJG3|D3ZJG3_RAT Protein P4htm OS=Rattus norvegicus GN=P4htm PE=4 SV=1	tr|D3ZJG3|D3ZJG3_RAT	0.00005
tr|D3ZU51|D3ZU51_RAT Protein Rpp30 OS=Rattus norvegicus GN=Rpp30 PE=1 SV=1	tr|D3ZU51|D3ZU51_RAT	0
tr|D3ZXK9|D3ZXK9_RAT Purine nucleoside phosphorylase OS=Rattus norvegicus GN=Pnp PE=1 SV=3	tr|D3ZXK9|D3ZXK9_RAT	0.00005
tr|D4A7H9|D4A7H9_RAT CHMP family, member 7 (Predicted), isoform CRA_a OS=Rattus norvegicus GN=Chmp7 PE=1 SV=1	tr|D4A7H9|D4A7H9_RAT	0
tr|D4A7Z5|D4A7Z5_RAT Protein LOC100360940 OS=Rattus norvegicus GN=LOC100360940 PE=4 SV=2	tr|D4A7Z5|D4A7Z5_RAT (+1)	0.00005
tr|F1M9Y7|F1M9Y7_RAT Protein Tcp11l1 OS=Rattus norvegicus GN=Tcp11l1 PE=1 SV=3	tr|F1M9Y7|F1M9Y7_RAT	0
tr|F1MAN8|F1MAN8_RAT Laminin, alpha 5, isoform CRA_a OS=Rattus norvegicus GN=Lama5 PE=1 SV=2	tr|F1MAN8|F1MAN8_RAT	0.00005
tr|G3V9Q4|G3V9Q4_RAT Protein Stk38 OS=Rattus norvegicus GN=Stk38 PE=1 SV=3	tr|G3V9Q4|G3V9Q4_RAT	0
tr|Q4V7D9|Q4V7D9_RAT Protein Smpdl3b OS=Rattus norvegicus GN=Smpdl3b PE=2 SV=1	tr|Q4V7D9|Q4V7D9_RAT	0
tr|Q6YDN8|Q6YDN8_RAT BWK-1 OS=Rattus norvegicus GN=Gid8 PE=1 SV=1	tr|Q6YDN8|Q6YDN8_RAT	0.00005
tr|Q7TP34|Q7TP34_RAT Ab2-450 OS=Rattus norvegicus GN=Mrfap1 PE=1 SV=1	tr|Q7TP34|Q7TP34_RAT	0
tr|A0A096MK14|A0A096MK14_RAT Protein Eif4e2 (Fragment) OS=Rattus norvegicus GN=Eif4e2 PE=1 SV=1	tr|A0A096MK14|A0A096MK14_RAT (+3)	0.00005
sp|B0BN18|PFD2_RAT Prefoldin subunit 2 OS=Rattus norvegicus GN=Pfdn2 PE=2 SV=1	sp|B0BN18|PFD2_RAT	0
tr|F1LVY9|F1LVY9_RAT Peptide deformylase OS=Rattus norvegicus GN=Pdf PE=1 SV=2	tr|F1LVY9|F1LVY9_RAT	0.00005
sp|Q9ES71|GNPAT_RAT Dihydroxyacetone phosphate acyltransferase OS=Rattus norvegicus GN=Gnpat PE=1 SV=1	sp|Q9ES71|GNPAT_RAT	0.00005
tr|D3ZMR2|D3ZMR2_RAT Protein Uhrf1bp1 OS=Rattus norvegicus GN=Uhrf1bp1 PE=1 SV=3	tr|D3ZMR2|D3ZMR2_RAT	0.00005
sp|Q5XIC4|SPG21_RAT Maspardin OS=Rattus norvegicus GN=Spg21 PE=2 SV=1	sp|Q5XIC4|SPG21_RAT (+1)	0.00005
tr|D3ZZ20|D3ZZ20_RAT Protein Afg3l1 OS=Rattus norvegicus GN=Afg3l1 PE=1 SV=2	tr|D3ZZ20|D3ZZ20_RAT	0.000075
sp|Q5RK19|SNF8_RAT Vacuolar-sorting protein SNF8 OS=Rattus norvegicus GN=Snf8 PE=1 SV=1	sp|Q5RK19|SNF8_RAT	0.00005
sp|Q6AYS4|FUCO2_RAT Plasma alpha-L-fucosidase OS=Rattus norvegicus GN=Fuca2 PE=2 SV=1	sp|Q6AYS4|FUCO2_RAT	0.00005
sp|Q99M64|P4K2A_RAT Phosphatidylinositol 4-kinase type 2-alpha OS=Rattus norvegicus GN=Pi4k2a PE=1 SV=1	sp|Q99M64|P4K2A_RAT	0.00005
tr|D4A7X1|D4A7X1_RAT Protein Mrps16 OS=Rattus norvegicus GN=Mrps16 PE=1 SV=1	tr|D4A7X1|D4A7X1_RAT	0.00005
tr|F1M3W5|F1M3W5_RAT Protein Dmxl2 OS=Rattus norvegicus GN=Dmxl2 PE=1 SV=3	tr|F1M3W5|F1M3W5_RAT	0.00005
tr|B2RZ44|B2RZ44_RAT N-acetyltransferase 5 (ARD1 homolog, S. cerevisiae) OS=Rattus norvegicus GN=Naa20 PE=1 SV=1	tr|B2RZ44|B2RZ44_RAT	0.00005
sp|P19836|PCY1A_RAT Choline-phosphate cytidylyltransferase A OS=Rattus norvegicus GN=Pcyt1a PE=1 SV=2	sp|P19836|PCY1A_RAT	0
sp|P21139|MA2C1_RAT Alpha-mannosidase 2C1 OS=Rattus norvegicus GN=Man2c1 PE=1 SV=1	sp|P21139|MA2C1_RAT (+2)	0
sp|Q5XFW6|WDR6_RAT WD repeat-containing protein 6 OS=Rattus norvegicus GN=Wdr6 PE=1 SV=2	sp|Q5XFW6|WDR6_RAT	0
tr|A0A0G2K761|A0A0G2K761_RAT Protein Cul2 OS=Rattus norvegicus GN=Cul2 PE=1 SV=1	tr|A0A0G2K761|A0A0G2K761_RAT (+1)	0
tr|D3ZQ63|D3ZQ63_RAT Protein Mettl2b OS=Rattus norvegicus GN=Mettl2b PE=1 SV=2	tr|D3ZQ63|D3ZQ63_RAT	0
sp|P35233-2|PTN2_RAT Isoform 2 of Tyrosine-protein phosphatase non-receptor type 2 OS=Rattus norvegicus GN=Ptpn2	sp|P35233-2|PTN2_RAT (+3)	0
sp|P07174|TNR16_RAT Tumor necrosis factor receptor superfamily member 16 OS=Rattus norvegicus GN=Ngfr PE=1 SV=1	sp|P07174|TNR16_RAT (+1)	0.00005
tr|D3ZU52|D3ZU52_RAT COP9 (Constitutive photomorphogenic) homolog, subunit 7b (Arabidopsis thaliana) (Predicted), isoform CRA_b OS=Rattus norvegicus GN=Co	tr|D3ZU52|D3ZU52_RAT	0
sp|P0C089|PTPM1_RAT Phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1 OS=Rattus norvegicus GN=Ptpmt1 PE=2 SV=1	sp|P0C089|PTPM1_RAT (+1)	0
tr|A0A0G2K8A6|A0A0G2K8A6_RAT Protein Ttf2 OS=Rattus norvegicus GN=Ttf2 PE=4 SV=1	tr|A0A0G2K8A6|A0A0G2K8A6_RAT	0
tr|Q4KM38|Q4KM38_RAT FUS interacting protein (Serine-arginine rich) 1 OS=Rattus norvegicus GN=Srsf10 PE=1 SV=1	tr|Q4KM38|Q4KM38_RAT	0.00005
sp|Q5PQN6|SPE39_RAT Spermatogenesis-defective protein 39 homolog OS=Rattus norvegicus GN=Vipas39 PE=1 SV=1	sp|Q5PQN6|SPE39_RAT (+1)	0.00005
sp|Q3T1J9|MOB1A_RAT MOB kinase activator 1A OS=Rattus norvegicus GN=Mob1a PE=2 SV=3	sp|Q3T1J9|MOB1A_RAT	0
tr|D4A8Z3|D4A8Z3_RAT Protein Frrs1 OS=Rattus norvegicus GN=Frrs1 PE=1 SV=3	tr|D4A8Z3|D4A8Z3_RAT	0
tr|A0A0G2K2A5|A0A0G2K2A5_RAT Protein Uchl5 OS=Rattus norvegicus GN=Uchl5 PE=1 SV=1	tr|A0A0G2K2A5|A0A0G2K2A5_RAT (+1)	0.00005
sp|D4ABP9|FBX3_RAT F-box only protein 3 OS=Rattus norvegicus GN=Fbxo3 PE=3 SV=1	sp|D4ABP9|FBX3_RAT	0.00005
sp|P13233|CN37_RAT 2',3'-cyclic-nucleotide 3'-phosphodiesterase OS=Rattus norvegicus GN=Cnp PE=1 SV=2	sp|P13233|CN37_RAT	0
tr|D3ZJJ6|D3ZJJ6_RAT 60S ribosomal protein L36 OS=Rattus norvegicus GN=RGD1563135 PE=3 SV=1	tr|D3ZJJ6|D3ZJJ6_RAT	0.00017
tr|D3ZIK0|D3ZIK0_RAT Protein Glce OS=Rattus norvegicus GN=Glce PE=1 SV=1	tr|D3ZIK0|D3ZIK0_RAT	0
tr|B2RYS8|B2RYS8_RAT NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial OS=Rattus norvegicus GN=Ndufb8 PE=1 SV=1	tr|B2RYS8|B2RYS8_RAT	0.00005
sp|Q6AXY7|PR38B_RAT Pre-mRNA-splicing factor 38B OS=Rattus norvegicus GN=Prpf38b PE=1 SV=1	sp|Q6AXY7|PR38B_RAT	0.00005
tr|B5DF46|B5DF46_RAT Phosphomannomutase OS=Rattus norvegicus GN=Pmm2 PE=1 SV=1	tr|B5DF46|B5DF46_RAT	0.00005
sp|Q499N6|UBXN1_RAT UBX domain-containing protein 1 OS=Rattus norvegicus GN=Ubxn1 PE=3 SV=2	sp|Q499N6|UBXN1_RAT	0
sp|P37805|TAGL3_RAT Transgelin-3 OS=Rattus norvegicus GN=Tagln3 PE=1 SV=2	sp|P37805|TAGL3_RAT (+1)	0
tr|M0R3N4|M0R3N4_RAT Protein Vat1l OS=Rattus norvegicus GN=Vat1l PE=1 SV=2	tr|M0R3N4|M0R3N4_RAT	0
tr|D3ZVA5|D3ZVA5_RAT Protein Fbll1 OS=Rattus norvegicus GN=Fbll1 PE=3 SV=2	tr|D3ZVA5|D3ZVA5_RAT	0.000075
sp|P08644-2|RASK_RAT Isoform 2B of GTPase KRas OS=Rattus norvegicus GN=Kras	sp|P08644-2|RASK_RAT (+1)	0.00005
sp|P20171|RASH_RAT GTPase HRas OS=Rattus norvegicus GN=Hras PE=1 SV=2	sp|P20171|RASH_RAT	0.00005
sp|Q6XVN8|MLP3A_RAT Microtubule-associated proteins 1A/1B light chain 3A OS=Rattus norvegicus GN=Map1lc3a PE=1 SV=1	sp|Q6XVN8|MLP3A_RAT	0.000025

Fig 1C supplemental

PLCβ1 associated proteins from cytosolic fractions from PC12 cells arrested in the G2/M phase

sp|Q62625-2|MLP3B_RAT Isoform 2 of Microtubule-associated proteins 1A/1B light chain 3B OS=Rattus norvegicus GN=Map1lc3b	sp|Q62625-2|MLP3B_RAT (+2)	0.000025
sp|Q920R4|GASP1_RAT G-protein coupled receptor-associated sorting protein 1 OS=Rattus norvegicus GN=Gprasp1 PE=1 SV=1	sp|Q920R4|GASP1_RAT (+1)	0
tr|F7ES73|F7ES73_RAT Protein Nub1 OS=Rattus norvegicus GN=Nub1 PE=1 SV=1	tr|F7ES73|F7ES73_RAT	0.00005
tr|D3Z955|D3Z955_RAT Protein Pgm2l1 OS=Rattus norvegicus GN=Pgm2l1 PE=1 SV=1	tr|D3Z955|D3Z955_RAT	0.00005
tr|D3ZVU7|D3ZVU7_RAT Histone deacetylase OS=Rattus norvegicus GN=Hdac1l PE=3 SV=3	tr|D3ZVU7|D3ZVU7_RAT	0.00005
tr|A0A096MKE2|A0A096MKE2_RAT Protein Snx12 OS=Rattus norvegicus GN=Snx12 PE=1 SV=1	tr|A0A096MKE2|A0A096MKE2_RAT (+1)	0.00005
sp|P02091|HBB1_RAT Hemoglobin subunit beta-1 OS=Rattus norvegicus GN=Hbb PE=1 SV=3	sp|P02091|HBB1_RAT (+2)	0.00005
tr|D4A634|D4A634_RAT Protein Ranbp6 OS=Rattus norvegicus GN=Ranbp6 PE=4 SV=2	tr|D4A634|D4A634_RAT	0.00005
tr|F1LW77|F1LW77_RAT Protein Rab33b OS=Rattus norvegicus GN=Rab33b PE=1 SV=2	tr|F1LW77|F1LW77_RAT	0.00015
tr|A0A0G2K0C9|A0A0G2K0C9_RAT Protein Papola OS=Rattus norvegicus GN=Papola PE=1 SV=1	tr|A0A0G2K0C9|A0A0G2K0C9_RAT	0.00005
Cluster of sp|Q64566-2|AT2C1_RAT Isoform Long of Calcium-transporting ATPase type 2C member 1 OS=Rattus norvegicus GN=Atp2c1 (sp|Q64566-2|AT2C1_RAT)	sp|Q64566-2|AT2C1_RAT [2]	0.00005
sp|Q64566-2|AT2C1_RAT Isoform Long of Calcium-transporting ATPase type 2C member 1 OS=Rattus norvegicus GN=Atp2c1	sp|Q64566-2|AT2C1_RAT (+1)	0.00005
tr|D3ZLA5|D3ZLA5_RAT Uncharacterized protein OS=Rattus norvegicus PE=4 SV=1	tr|D3ZLA5|D3ZLA5_RAT (+1)	0.000025
tr|A0A0G2K839|A0A0G2K839_RAT Chloride channel protein OS=Rattus norvegicus GN=Clcn5 PE=1 SV=1	tr|A0A0G2K839|A0A0G2K839_RAT	0.000025
tr|A0A0G2KAZ7|A0A0G2KAZ7_RAT Heterogeneous nuclear ribonucleoprotein D-like OS=Rattus norvegicus GN=Hnrnpdl PE=1 SV=1	tr|A0A0G2KAZ7|A0A0G2KAZ7_RAT	0.000025

Fig 1D supplemental

Ago2 associated proteins from cytosolic fractions from unsynchronized PC12 cells

32.1% Known Stress Granule Proteins
8.35% Ribosomal Proteins

Uniprot ID	Protein Name	Intensity Levels	% of total Spectra
A0A0G2JV65	14-3-3 protein zeta/delta, Ywhaz 32.1	990080	0.1648
A0A0G2JW88	Microtubule-associated protein, Map4	125640	0.0209
A0A0G2JYE0	Protein Atxn2l, Atxn2l	316410	0.0527
A0A0G2K8K0	Protein Sfpq, Sfpq	559700	0.0932
A0A0U1RS25	Protein Upf1, Upf1 4	1579100	0.2629
D3Z941	Protein Mars, Mars	696260	0.1159
D3ZC82	Protein Nufip2, Nufip2	18058	0.003
D3ZPL1	Cleavage and polyadenylation specific factor 6,lll68kDa (Predicted), isoform CRA_b,	9880500	1.6448
D3ZU13	Protein Eif4g1, Eif4g1	1178300	0.1961
D4AB03	Protein Fam120a, Fam120a	410640	0.0684
D4ADC2	Protein Helz2, Helz2	312960	0.0521
F1LMV6	Protein Dsp, Dsp	11775	0.002
F1LPS8	Transcriptional activator protein Pur-alpha, Pura	403770	0.0672
F1LRP7	Protein argonaute-2, Ago2	17775	0.003
F1LVV4	Protein Rcc2, Rcc2	53762	0.0089
F1M062	Protein Larp1, Larp1	406340	0.0676
G3V9N0	Polyadenylate-binding protein, Pabpc4	92555	0.0154
G3V9N1	RCG21137, Pgam5	258290	0.043
M0R9X8	Cytoplasmic dynein 1 heavy chain 1, Dync1h1	967010	0.161
O09032	ELAV-like protein 4, Elavl4	208370	0.0347
O88600	Heat shock 70 kDa protein 4, Hspa4	1459200	0.2429
P0CG51	Polyubiquitin-B, Ubb	5659000	0.942
P28023	Dynactin subunit 1, Dctn1	139760	0.0233
P28480	T-complex protein 1 subunit alpha, Tcp1	170520	0.0284
P46462	Transitional endoplasmic reticulum ATPase, Vcp	970920	0.1616
P52296	Importin subunit beta-1, Kpnb1	37472	0.0062
P61980	Heterogeneous nuclear ribonucleoprotein K,lllHnrnpk	26715	0.0044
P62828	GTP-binding nuclear protein Ran, Ran	25100000	4.1829
P62909	40S ribosomal protein S3, Rps3	6910700	1.1504
P63245	Guanine nucleotide-binding protein subunitlllbeta-2-like 1, Gnb2l1 /RACK1	252680	0.0421
P68255	14-3-3 protein theta, Ywhaq	1230600	0.2049
P82995	Heat shock protein HSP 90-alpha, Hsp90aa1	6442100	1.0724
P85834	Elongation factor Tu, mitochondrial, Tufm	171370	0.0285
Q1JU68	Eukaryotic translation initiation factor 3 subunitlllA, Eif3a 2	328760	0.0547
Q4G061	Eukaryotic translation initiation factor 3 subunitlllB, Eif3b	500320	0.0833
Q5XIF6	Tubulin alpha-4A chain, Tuba4a	7542300	1.2555
Q6P502	T-complex protein 1 subunit gamma, Cct3	26160	0.0044
Q91V33	KH domain-containing, RNA-binding, signallllltransduction-associated protein 1, Khd	98010	0.0163
Q9EPH8	Polyadenylate-binding protein 1, Pabpc1	1268600	0.2112
Q9EQV9	Carboxypeptidase B2, Cpb2 2	379250	0.0631
Q9QZA2	Programmed cell death 6-interacting protein,lllPdcd6ip	279030	0.0464
A0A0G2K719	Protein Ddx3x, Ddx3x	1985300	0.3305
B1H2A6	Fxr2 protein, Fxr2	1358100	0.2261
Q3B8Q1	Nucleolar RNA helicase 2, Ddx21 2	166310	0.0277
Q5XI81	Fragile X mental retardation syndrome-relatedlllprotein 1, Fxr1	1671100	0.2782
Q80WE1-2	Isoform 2 of Fragile X mental retardation proteinlll1 homolog, Fmr1	1405700	0.234
Q641Y8	ATP-dependent RNA helicase DDX1, Ddx1	283930	0.0473
A0A0G2K2C7	Protein Usp9x, Usp9x	107000000	17.7418
Q5M9G3	Caprin-1, Caprin1	1775300	0.2955

Fig 1D supplemental

Ago2 associated proteins from cytosolic fractions from unsynchronized PC12 cells

A0A0H2UHS7	60S ribosomal protein L18, Rpl18	3062000	0.5097
A0A0H2UHV4	Eukaryotic translation initiation factor 5B, Eif5b	161030	0.0268
B0BN81	40S ribosomal protein S5, Rps5	269540	0.0449
B2RYR8	40S ribosomal protein S8, Rps8 2	825130	0.1374
B5DFC8	Eukaryotic translation initiation factor 3 subunitlllC, Eif3c	401250	0.0668
D4A9D6	DEAH (Asp-Glu-Ala-His) box polypeptide 9lll(Predicted), Dhx9	336240	0.056
P18445	60S ribosomal protein L27a, Rpl27a	2292400	0.3816
P21531	60S ribosomal protein L3, Rpl3	191040	0.0318
P24049	60S ribosomal protein L17, Rpl17 2	2352600	0.3916
P24051	40S ribosomal protein S27-like, Rps27l	4511400	0.751
P29314	40S ribosomal protein S9, Rps9	4917700	0.8186
P41123	60S ribosomal protein L13, Rpl13	1214600	0.2022
P62250	40S ribosomal protein S16, Rps16	2701200	0.4497
P62282	40S ribosomal protein S11, Rps11	641050	0.1067
P62703	40S ribosomal protein S4, X isoform, Rps4x 2	2703500	0.45
P62832	60S ribosomal protein L23, Rpl23 2	4035600	0.6718
P62853	40S ribosomal protein S25, Rps25 2	3939400	0.6558
P62856	40S ribosomal protein S26, Rps26 3	4230900	0.7043
P62914	60S ribosomal protein L11, Rpl11	565190	0.0941
P83732	60S ribosomal protein L24, Rpl24 2	2450500	0.4079
Q5BJS0	Putative ATP-dependent RNA helicase DHX30,lllDhx30	466570	0.0777
Q6P3V9	60S ribosomal protein L4, Rpl4	6012600	1.0009
Q6PDV7	60S ribosomal protein L10, Rpl10	1880700	0.3131
P08413	Calcium/calmodulin-dependent protein kinaselllltype II subunit beta, Camk2b	126390	0.021
Q66HD0	Endoplasmin, Hsp90b1	1965200	0.3271
A0A096MIX2	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17,lllisoform CRA_a, Ddx17	1798900	0.2995
A0A096MKE9	DNA ligase, Lig3	14789	0.0025
A0A0A0MXX0	CD2-associated protein, Cd2ap	18600000	3.0951
A0A0G2JSH5	Serum albumin, Alb	18300000	3.039
A0A0G2JSH6	Transient receptor potential cation channellllsubfamily V member 2, Trpv2	904190	0.1505
A0A0G2JT63	Protein Cyfip2, Cyfip2	22455	0.0037
A0A0G2JU96	Protein Ahnak, Ahnak	522160	0.0869
A0A0G2JUC9	Protein Herc2, Herc2	23490	0.0039
A0A0G2JUU7	Protein Tubgcp3, Tubgcp3	282130	0.047
A0A0G2JVL8	Protein Iars, Iars	107810	0.0179
A0A0G2JWD6	AP-3 complex subunit beta, Ap3b1	772930	0.1287
A0A0G2JXJ7	Extended synaptotagmin-1, Esyt1	42850	0.0071
A0A0G2JXZ3	Transcriptional regulator ATRX, Atrx	2319.4	0.0004
A0A0G2JYH7	Protein Sh2d3c, Sh2d3c	117250	0.0195
A0A0G2JZ52	Protein Hnrnpu, Hnrnpu	2990700	0.4978
A0A0G2JZI2	Protein Eprs, Eprs	294760	0.0491
A0A0G2JZY6	Protein Sptbn1, Sptbn1	32859	0.0055
A0A0G2K0B4	E3 ubiquitin-protein ligase NEDD4, Nedd4	299540	0.0499
A0A0G2K1Q9	Erythrocyte protein band 4.1-like 3, isoformlllCRA_e, Epb41l3	325520	0.0542
A0A0G2K2M9	Protein Srrm2, Srrm2	149320	0.0249
A0A0G2K2P5	Protein Tjp1, Tjp1	52438	0.0087
A0A0G2K3H2	Protein Dock7, Dock7	8438.5	0.0014
A0A0G2K4Y7	Unconventional myosin-Va, Myo5a	818560	0.1363
A0A0G2K5A4	Uncharacterized protein 4	23887	0.004
A0A0G2K5C6	Microtubule-associated protein 1A, Map1a	46183	0.0077
A0A0G2K6I4	Protein Enah, Enah	554530	0.0923
A0A0G2K6S9	Myosin-11, Myh11	349120	0.0581
A0A0G2K736	Protein Kdm1a, Kdm1a	15926	0.0027

Fig 1D supplemental

Ago2 associated proteins from cytosolic fractions from unsynchronized PC12 cells

A0A0G2K926	Protein LOC297568, LOC297568	1075300	0.179
A0A0G2K9T1	E3 ubiquitin-protein ligase, Itch	888080	0.1478
A0A0G2KAL8	Short transient receptor potential channel 3,lllTrpc3 4	146450	0.0244
A0A0G2KB74	Protein Dip2a, Dip2a	212120	0.0353
A0A0U1RRP9	Protein C2, C2 4	3720900	0.6194
A3KNA0	Aqr protein, Aqr	166790	0.0278
A9UMV8	Histone H2A.J, H2afj 2	2893800	0.4817
B1WBU2	LOC682033 protein, Ppp2r3b 2	1642200	0.2734
B1WC16	BCL2-associated transcription factor 1, isoformlllCRA_a, Bclaf1	209850	0.0349
B2GUZ3	Mthfd1l protein, Mthfd1l	29176	0.0049
B2RYM3	Inter-alpha trypsin inhibitor, heavy chain 1lll(Predicted), isoform CRA_a, Itih1	5706300	0.9499
B2RYP8	A disintegrin and metalloprotease domain 8lll(Predicted), isoform CRA_b, Tubgcp2	182360	0.0304
B4F772	Heat shock 70 kDa protein 4L, Hspa4l	180360	0.03
C0JPT7	Filamin alpha, Flna	13618	0.0023
D3ZAS8	Protein Sart3, Sart3	125360	0.0209
D3ZB81	Protein Slc25a31, Slc25a31 3	6287400	1.0466
D3ZD97	DEAH (Asp-Glu-Ala-His) box polypeptide 15lll(Predicted), isoform CRA_b, Dhx15	601800	0.1002
D3ZFH5	Protein Itih2, Itih2	2781700	0.4631
D3ZFJ3	Protein Sh3bp1, Sh3bp1	5998800	0.9986
D3ZFP4	DNA helicase, Mcm3	159860	0.0266
D3ZH41	Cytoskeleton-associated protein 4 (Predicted),lllCkap4	583380	0.0971
D3ZIE9	Protein Aldh18a1, Aldh18a1 3	1395400	0.2323
D3ZRK0	Protein Fam83h, Fam83h	357750	0.0596
D3ZUK4	Protein Trim33, Trim33	28931	0.0048
D3ZYD7	Protein Ccdc88a, Ccdc88a	18528	0.0031
D4A2D3	Protein Mycbp2, Mycbp2	32211	0.0054
D4A4J0	Protein Supt16h, Supt16h	890130	0.1482
D4A4Z9	Protein Ktn1, Ktn1	166520	0.0277
D4A507	Protein Clip3, Clip3	702910	0.117
D4A857	Importin 9 (Predicted), Ipo9	409780	0.0682
D4A8A0	DNA fragmentation factor subunit beta, Cad	28853	0.0048
D4A8H8	Cytoplasmic FMR1 interacting protein 1lll(Predicted), Cyfip1	48469	0.0081
D4AEG2	Protein Rab32, Rab32	920700	0.1533
E9PT22	Protein Inf2, Inf2	353460	0.0588
E9PU01	Protein Chd4, Chd4	33663	0.0056
F1LM33	Leucine-rich PPR motif-containing protein,lllmitochondrial, Lrpprc	140580	0.0234
F1LNF0	Protein Myh14, Myh14	125710	0.0209
F1LNR1	Protein Clasp1, Clasp1	122160	0.0203
F1LQS3	60S ribosomal protein L6, Rpl6-ps1 3	1390500	0.2315
F1LRI5	Protein Gcn1l1, Gcn1l1	11825	0.002
F1LRL9	Microtubule-associated protein 1B, Map1b	274590	0.0457
F1LV13	Heterogeneous nuclear ribonucleoprotein M,lllHnrnpm	240910	0.0401
F1LX07	Protein Slc25a12, Slc25a12	2029400	0.3378
F1LZW6	Protein Slc25a13, Slc25a13	973190	0.162
F1M5M9	Protein Srgap3, Srgap3	137500	0.0229
F1M7P4	Peripherin, Prph	695540	0.1158
F1M953	Stress-70 protein, mitochondrial, Hspa9	2636500	0.4389
F7EYF1	E3 ubiquitin-protein ligase, Wwp2	899040	0.1497
G3V679	Transferrin receptor protein 1, Tfrc	109720	0.0183
G3V6L4	Kinesin-like protein, Kif5c	118680	0.0198
G3V6P7	Myosin, heavy polypeptide 9, non-muscle,lllMyh9	749910	0.1248
G3V6S8	Serine/arginine-rich splicing factor 6, Srsf6	287920	0.0479
G3V6T1	Coatomer subunit alpha, Copa	40235	0.0067

Fig 1D supplemental

Ago2 associated proteins from cytosolic fractions from unsynchronized PC12 cells

G3V7C6	Tubulin beta-4B chain, Tubb4b	7228200	1.2032
G3V7M0	Protein Cnot1, Cnot1	23422	0.0039
G3V8T4	DNA damage-binding protein 1, Ddb1	89699	0.0149
G3V918	Phosphoribosylglycinamide formyltransferase,lllisoform CRA_a, Gart	193930	0.0323
G3V9J1	Protein LOC297568, LOC297568	4992300	0.831
G3V9Y1	Myosin, heavy polypeptide 10, non-muscle,lllisoform CRA_b, Myh10	423540	0.0705
M0R7B4	Protein LOC684828, LOC684828	3215100	0.5352
M0R7E6	Protein Srrt, Srrt	737920	0.1228
M0RBF1	Complement C3, C3	4450900	0.7409
O08629	Transcription intermediary factor 1-beta, Trim28	291620	0.0485
O35964	Endophilin-A2, Sh3gl1	2238900	0.3727
O55043	Rho guanine nucleotide exchange factor 7,lllArhgef7	52725	0.0088
P04177	Tyrosine 3-monooxygenase, Th	492200	0.0819
P04937-2	Isoform 2 of Fibronectin, Fn1	259620	0.0432
P05197	Elongation factor 2, Eef2	807330	0.1344
P06238	Alpha-2-macroglobulin, A2m 2	5041300	0.8392
P06685	Sodium/potassium-transporting ATPase subunitlllalpha-1, Atp1a1	1911600	0.3182
P06761	78 kDa glucose-regulated protein, Hspa5	3669300	0.6108
P07153	Dolichyl-diphosphooligosaccharide--proteinlllglycosyltransferase subunit 1, Rpn1 2	100390	0.0167
P07825	Synaptophysin, Syp	989900	0.1648
P10687	1-phosphatidylinositol 4, 5-bisphosphatelllphosphodiesterase beta-1, Plcb1	334080	0.0556
P10719	ATP synthase subunit beta, mitochondrial,lllAtp5b	497690	0.0828
P11442	Clathrin heavy chain 1, Cltc	3468700	0.5774
P11507	Sarcoplasmic/endoplasmic reticulum calciumlllATPase 2, Atp2a2	148630	0.0247
P11980-2	Isoform M2 of Pyruvate kinase PKM, Pkm	561270	0.0934
P12346	Serotransferrin, Tf	1157900	0.1927
P12785	Fatty acid synthase, Fasn	7726.6	0.0013
P13383	Nucleolin, Ncl	12400000	2.0562
P13635	Ceruloplasmin, Cp	641500	0.1068
P15865	Histone H1.4, Hist1h1e	3341300	0.5562
P15999	ATP synthase subunit alpha, mitochondrial,lllAtp5a1	1404700	0.2338
P16086	Spectrin alpha chain, non-erythrocytic 1, Sptan1	64746	0.0108
P16638	ATP-citrate synthase, Acly	298550	0.0497
P18292	Prothrombin, F2	366070	0.0609
P18395	Cold shock domain-containing protein E1, Csde1lll2	74413	0.0124
P21575-2	Isoform 2 of Dynamin-1, Dnm1	182180	0.0303
P23514	Coatomer subunit beta, Copb1	149760	0.0249
P27008	Poly [ADP-ribose] polymerase 1, Parp1	301800	0.0502
P30427	Plectin, Plec	333190	0.0555
P32089	Tricarboxylate transport protein, mitochondrial,lllSlc25a1	841760	0.1401
P34058	Heat shock protein HSP 90-beta, Hsp90ab1	9610400	1.5998
P35427	60S ribosomal protein L13a, Rpl13a	300030	0.0499
P52873	Pyruvate carboxylase, mitochondrial, Pc	2126400	0.354
P60711	Actin, cytoplasmic 1, Actb	7383900	1.2292
P62630	Elongation factor 1-alpha 1, Eef1a1 2	14700000	2.4545
P62804	Histone H4, Hist1h4b	7417900	1.2348
P63018	Heat shock cognate 71 kDa protein, Hspa8	7621300	1.2687
P68035	Actin, alpha cardiac muscle 1, Actc1 2	4409600	0.734
P68370	Tubulin alpha-1A chain, Tuba1a	16500000	2.7482
P69897	Tubulin beta-5 chain, Tubb5	9725300	1.6189
P84245	Histone H3.3, H3f3b	1923400	0.3202
P85108	Tubulin beta-2A chain, Tubb2a	8447100	1.4061
P97536	Cullin-associated NEDD8-dissociated protein 1,lllCand1	142200	0.0237

Fig 1D supplemental

Ago2 associated proteins from cytosolic fractions from unsynchronized PC12 cells

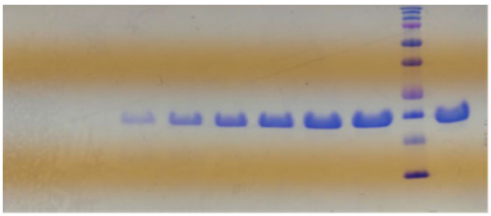
Q00438-2	Isoform PYBP1 of Polypyrimidine tract-bindinglllprotein 1, Ptbp1	692160	0.1152
Q01177	Plasminogen, Plg 2	1388700	0.2312
Q04462	Valine--tRNA ligase, Vars 2	293890	0.0489
Q04931	FACT complex subunit SSRP1, Ssrp1	204120	0.034
Q05962	ADP/ATP translocase 1, Slc25a4	22300000	3.7097
Q06000	Lipoprotein lipase, Lpl	1593000	0.2652
Q07647	Solute carrier family 2, facilitated glucosellltransporter member 3, Slc2a3	1180600	0.1965
Q09073	ADP/ATP translocase 2, Slc25a5	17000000	2.8252
Q2PQA9	Kinesin-1 heavy chain, Kif5b	185300	0.0308
Q3KR86	MICOS complex subunit Mic60 (Fragment), Immt	466680	0.0777
Q3KR94	Protein Vtn, Vtn	1417400	0.2359
Q3KRE0	ATPase family AAA domain-containing protein 3,lllAtad3	168360	0.028
Q4AEF8	Coatomer subunit gamma-1, Copg1 2	16241	0.0027
Q4G017	Nischarin, Nisch 2	333570	0.0555
Q4VSI4	Ubiquitin carboxyl-terminal hydrolase 7, Usp7	59660	0.0099
Q53UA7	Serine/threonine-protein kinase TAO3, Taok3	1622700	0.2701
Q5BJP4	Protein LOC100910882, Rbm39	446550	0.0743
Q5BK61	Sorting nexin-20, Snx20	2396500	0.3989
Q5FVC2	Rho guanine nucleotide exchange factor 2,lllArhgef2	46967	0.0078
Q5M7T5	Protein Serpinc1, Serpinc1	1843800	0.3069
Q5M7V8	Thyroid hormone receptor-associated protein 3,lllThrap3	236960	0.0394
Q5PPJ6	Leucyl-tRNA synthetase, Lars	341810	0.0569
Q5U2Y1-2	Isoform 2 of General transcription factor II-I,lllGtf2i	70463	0.0117
Q5XHZ0	Heat shock protein 75 kDa, mitochondrial,lllTrap1	1802100	0.3
Q5XI32	F-actin-capping protein subunit beta, Capzb	4210000	0.7008
Q5XI78	2-oxoglutarate dehydrogenase, mitochondrial,lllOgdh	57888	0.0096
Q62780	Probable ATP-dependent RNA helicase DDX46,lllDdx46	104040	0.0173
Q62910-2	Isoform 2 of Synaptojanin-1, Synj1	93171	0.0155
Q63041	Alpha-1-macroglobulin, A1m	3883900	0.6465
Q63357	Unconventional myosin-Id, Myo1d	98110	0.0163
Q63416	Inter-alpha-trypsin inhibitor heavy chain H3,llltih3 2	486020	0.0809
Q64268	Heparin cofactor 2, Serpind1	2182000	0.3632
Q66H86	Olfactomedin-like protein 1, Olfml1 2	2071200	0.3448
Q68FP1-2	Isoform 2 of Gelsolin, Gsn	4740500	0.7891
Q68FR6	Elongation factor 1-gamma, Eef1g 2	518930	0.0864
Q68G39	Cyclin-dependent kinase 16, Cdk16	1352500	0.2251
Q6AYI1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5, Ddx5	1357300	0.2259
Q6AYZ1	Tubulin alpha-1C chain, Tuba1c	15500000	2.5774
Q6IFU9	Protein Krt16, Krt16	1711600	0.2849
Q6MG08	ATP-binding cassette sub-family F member 1,lllAbcf1	42505	0.0071
Q6MG90	Complement component 4, gene 2, C4b	1267500	0.211
Q6P0K8	Junction plakoglobin, Jup	164620	0.0274
Q6P503	ATPase, H+ transporting, V1 subunit D, isoformlllCRA_c, Atp6v1d	2660900	0.4429
Q6Q0N3	5'-nucleotidase domain-containing protein 2,lllNt5dc2 2	277730	0.0462
Q80ZA3	Alpha-2 antiplasmin, Serpinf1	980560	0.1632
Q8CG07	ATPase WRNIP1, Wrnip1	157120	0.0262
Q925G1-2	Isoform 2 of Hepatoma-derived growth factor-lllrelated protein 2, Hdgfrp2	56025	0.0093
Q9EPY0	Caspase recruitment domain-containing proteinlll9, Card9	83799	0.0139
Q9ESV6	Glyceraldehyde-3-phosphate dehydrogenase,llltestis-specific, Gapdhs	710190	0.1182
Q9JIL3-2	Isoform 2 of Interleukin enhancer-binding factorlll3, Ilf3	781890	0.1302
Q9JJ31	Cullin-5, Cul5	110940	0.0185
Q9JKS6-2	Isoform 2 of Protein piccolo, Pclo	618890	0.103
Q9QUL6	Vesicle-fusing ATPase, Nsf	56237	0.0094
Q9QYF3	Unconventional myosin-Va, Myo5a	757200	0.126
Q9WUL0	DNA topoisomerase 1, Top1	62942	0.0105
Q9Z1P2	Alpha-actinin-1, Actn1	159790	0.0266
Q9Z1X1	Extended synaptotagmin-1, Esyt1	102530	0.0171
Q9Z327-2	Isoform 2 of Synaptopodin, Synpo	774410	0.1289

2

A.

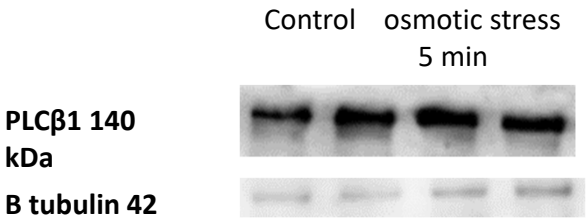
Purification of eIF5A-

Proteins were purified and labeled with fluorescent probes as described in the *Methods* section. SDS coomassie-stained gel showing the purity of eIF5A



B.

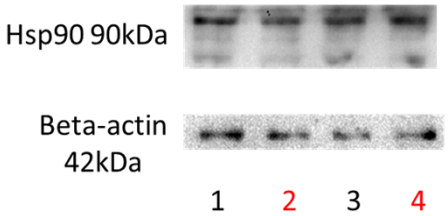
PLCβ1 levels in A10 Cells



Western blot showing changes in the level of PLCβ1 in A10 cells under basal conditions and subjected to hypo-osmotic stress (150 mOsm for 5 min). Densitometry comparing lanes 1 and 2 to 3 and 4, and accounting for differences in sample loading, show a 30-50% reduction in PLCβ1 levels.

C.

1. Control
2. siRNA PLCβ
3. Control
4. siRNA PLCβ



Changes in Hsp90 levels in undifferentiated PC12 cells with siRNA(PLCβ1) Western blot of Hsp90 was carried out as described in the text, where anti-Hsp90 was from Santa Cruz and siRNA(PLCb1) was SmartPool form Dharmacon.

3

A

eif5A peptide 1	start residue	end residue	eif5A peptide 2	start residue	end residue	CL spectral count	PLCβ1 spectral count	eif5A spectral count
GRPCKIVEMSTSKTGK	22	37	YEDICPSTHNMDVPNIK	56	72	0	1	0
IVEMSTSKTGKHGHAK	27	42	YDCGEEILITVLSAMTEEAAVAIKA	114	138	1	0	0
EDLR	97	100	LPEGDLGKEIEQK	101	113	2	2	5

B

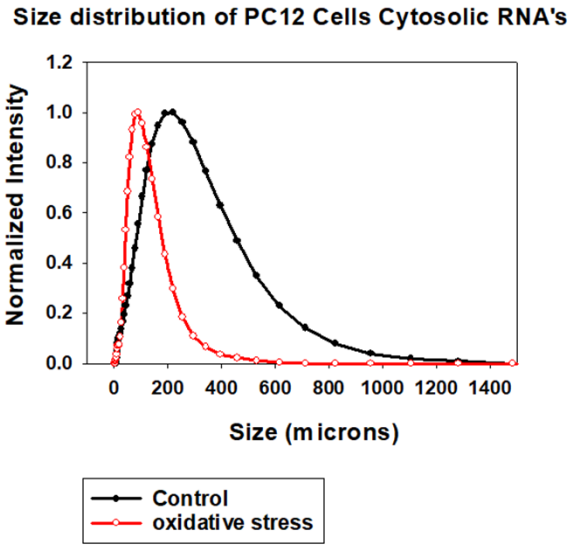
eif5A peptide	start residue	end residue	PLCβ1 peptide	start residue	end residue		CL spectra count	PLCB1 spectral count	eif5A spectral count
VHLVGIDIFTGKK	43	55	QEQVQVLIEK	268	277		0	0	1
RNDFQLIGIQDGYLSLLQDSGEVR	96	96	AKQLAALTLEDEEEVK	824	839		0	0	1
EDLRLPEGDLGKEIEQK	97	113	KSHKSSEGSGK	469	479		0	1	0
KNGFVVLK	14	21	SKDKSQMEEEK	1085	1095		0	0	1
EDLR	97	100	MAGAQPGVHALQLKPVCVSDSLKK	1	24		0	1	0
EIEQKYDCGEEILITVLSAMTEEAAVAIKA	109	138	GQISVDGFMR	288	297		0	1	0
LPEGDLGKEIEQK	101	113	QQAKMAEYCR	420	429		1	2	2
EDLRLPEGDLGKEIEQK	97	113	ETELLDLSLVK	60	70		0	1	0
KYEDICPSTHNMDVPNIK	55	72	HHKK	937	940		0	1	0
KYEDICPSTHNMDVPNIK	55	72	AALEK	964	968		0	1	0
YEDICPSTHNMDVPNIKR	56	73	KDSK	972	975	GAP, GqAct	1	1	1
NDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGK	74	108	KMDK	1071	1074		0	1	0
EDLRLPEGDLGK	97	108	SKDKSQMEEEK	1085	1095	GAP, GqAct	1	1	3
KYEDICPSTHNMDVPNIK	55	72	TEMIR	1096	1100		0	1	0
EIEQK	109	113	GKISEDSNHGSAPLSLSSDPGKVNHK	1171	1196		0	1	0

3

C

PLCβ1 peptide 1	start residue	end residue	PLCβ1 peptide 2	start residue	end residue	CL spectral count	PLCβ1 spectral count	PLCβ1 spectral count
KGQISVDGFMR	287	297	VGTYVEVDMFGLPVDTRR	693	710	2	1	0
GQISVDGFMR	288	297	KVGTYVEVDMFGLPVDTRR	692	710	0	1	0
EVIEAIAECAFK	390	401	HYKEMK	926	931	0	0	1
WDDDSTIVTPIILRTDPQGFFFYWTDQNK	31	59	EICEKEKK	1059	1066	0	1	0
QQAKMAEYCR	420	429	SGYRLKPEFMR	646	656	1	1	2
LIFGDALLMEPLEK	430	443	NKSFEMSSFVETKGLEQLTK	562	581	0	0	1
KSHKSSEGSGK	469	479	EMKDLVK	929	935	0	0	1
SSEGSGK	SSEGSGK	SSEGSGK	SSEGSGK	SSEGSGK	SSEGSGK	1	0	0
MAGAQPGVHALQLKPVCVSDSLKKGTK	1	27	KMDK	1071	1074	0	1	0
SGYRLKPEFMR	646	656	EICEKEK	1059	1065	1	0	0
DARCGR	71	76	NKSFEMSSFVETK	562	574	0	0	1
YVNLMEQR	816	823	SKDKSQMEEEK	1085	1095	0	0	1
QLAALTLEDEEEVK	826	839	DKSQMEEEK	1087	1095	1	1	0
EICEK	1059	1063	TPSSEELGGDIPGKEFDTPL	1197	1216	0	1	0
DKSQMEEEK	1087	1095	TEMIR	1096	1100	2	1	0
SKPYLTVDQMMDFINLK	236	252	KTTDLIKEHTTK	940	951	0	1	0
QRDPR	253	257	SKDKSQMEEEK	1085	1095	0	0	1
KHYKEMK	925	931	SPVEFVEYNKMQLSRIYPK	582	600	0	1	0
RNKSFEMSSFVETK	561	574	RVETALEACSLPSSR	184	198	1	0	0
HYKEMK	926	931	NKSFEMSSFVETK	562	574	0	0	1
QLAALTLEDEEEVKK	826	840	ILVKNK	462	467	1	2	0
SHKSSEGSGK	470	479	GTKFVKWDDDSTIVTPIILR	25	44	0	1	0
DKSQMEEEK	1087	1095	QLAALTLEDEEEVK	826	839	1	1	1
AFKTKTSQGNAVNPVWEEEPIVFK	712	735	KRVETALEACSLPSSR	183	198	1	0	0
EMKDLVKR	929	936	MAEYCR	424	429	1	0	0
LKPEFMRRPDK	650	660	SGYRLKPEFMRRPDK	646	660	0	1	0
LVEK	1124	1127	DKSQMEEEKTEMIR	1087	1100	0	0	1
HKEIR	1128	1132	IISGQFLSDKK	682	692	0	0	1
TPSSEELGGDIPGKEFDTPL	1197	1216	SSEGSGK	473	479	1	2	2
MDKKR	1072	1076	MAGAQPGVHALQLKPVCVSDSLK	1	24	2	0	0
MDKKR	1072	1076	MAGAQPGVHALQLKPVCVSDSLK	1	23	1	1	0
QLAALTLEDEEEVKK	826	840	KAFK	711	714	1	0	0
QEKLVEK	1121	1127	TDPQGFFFYWTDQNK	45	59	2	1	1
SKDKSQMEEEK	1085	1095	ITEAK	1080	1084	0	1	0
LQVELEQEYQDKFK	1142	1155	KMDK	1071	1074	0	1	1
SPVEFVEYNK	582	591	QQAKMAEYCR	420	429	1	1	1
KMDK	1071	1074	KDSK	972	975	1	1	0
KVGTYVEVDMFGLPVDTR	692	709	MAEYCRLIFGDALLMEPLEK	424	443	0	0	1
KAFK	711	714	YPLESGVPLPSPMDLMYK	444	461	1	0	0
TPSSEELGGDIPGKEFDTPL	1197	1216	EICEK	1059	1063	0	1	1

4



The size distribution of cytosolic RNA isolated from PC12 cells was measured by dynamic light scattering for control conditions (*black*) and oxidative stress (1mM $CoCl_2$ 12-16 hours, *red*).

5

PLCb1-associated proteins in cytosolic fractions of A10 cells at 300 mOsm (basal)

log(I)	total	tot/PLCB1	Mr	Accession	gene	Description
6.68	130	0.326	77.5	sp|P52272|HNRPM	HNRNPM	Heterogeneous nuclear ribonucleoprotein M (hnRNP M)
6.86	92	0.231	54.2	sp|Q15233|NONO	NONO	Non-POU domain-containing octamer-binding protein (Nonn) protein (54 kDa nuclear RNA- and DNA-binding protein) (DNA-binding p52/p100 complex, 52 kDa subunit)(NMT
6.21	83	0.208	112.2	sp|P78347|GTF2I	GTF2I	BAP135 WBS General transcription factor II-I (GTF2-I) (Bruton tyrosine kinase-associated protein 135) (BAP-135) (BTK-associated protein 135) (SRC-PhoCo interacting protein) (SPIN) (Williams-Beuren syndro
6.65	83	0.208	70	sp|P00505|HS71	HSPA1B	Heat shock 70 kDa protein 1B (Heat shock 70 kDa protein 2) (HSP70-2) (HSP70.2)
6.23	80	0.201	265.4	sp|Q13085|ACACA	ACACA	ACC1 ACC-alpha Acetyl-CoA carboxylase 1 (ACC1) (EC 6.4.1.2) (ACC-alpha) (Includes: Biotin carboxylase (EC 6.3.4.14)
7.01	76	0.190	76.1	sp|P22245|SFPQ	SFPQ	PSF Splicing factor, proline- and glutamine-rich (63 kDa DNA-pairing protein) (hPOMp100) (DNA-binding p52/p100 complex, 100 kDa subunit) (Polypyrimidine tract-binding protein-associated-splicingfac
6.16	74	0.185	73.2	sp|O00571|DDX3X	DDX3X	DBX DDX3 ATP-dependent RNA helicase DDX3X (EC 3.6.4.13) (DEAD box protein 3, X-chromosomal) (DEAD box, X isoform) (Helicase like protein 2) (HLP2)
6.55	74	0.185	49.6	sp|P07437|TBB5_H	TUBB	TUBB5 CMDB8 Tubulin beta chain (Tubulin beta-5 chain)
6.89	52	0.130	26.9	sp|Q8NVB5|THOC4	ALYREF	ALY BEF THO complex subunit 4 (Tho4) (Ally of AML-1 and LEF-1) (Aly/REF export factor) (Transcriptional coactivator Aly/REF) (bZIP-enhancing factor BEF)
6.49	50	0.125	50.1	sp|P68104|EF1A1_	EEF1A1	EEF1A Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongation factor Tu) (EF-Tu) (Eukaryotic elongation factor 1-A-1) (eEF1A-1) (Leukocyte receptor cluster member 7)
6.18	48	0.120	50.1	sp|P68363|TUBA1B	TUBA1B	Tubulin alpha-1B chain (Alpha-tubulin ubiquitous) (Tubulin K alpha 1) (Tubulin alpha-ubiquitous chain)
6.53	46	0.115	36	sp|P04406|G3P_H	GAPDH	GAPDH Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (EC 1.2.1.12) (Peptidyl-cysteine S-nitrosylase GAPDH)(EC 2.6.99.-)
6.24	38	0.095	69.1	sp|P17844|DDX5_	DDX5	G17P1 HELR Probable ATP-dependent RNA helicase DDX5 (EC 3.6.4.13) (DEAD box protein 5) (RNA helicase p68)
5.71	35	0.088	61	sp|P10809|CH60_	HSPD1	HSP60 60 kDa heat shock protein, mitochondrial (60 kDa chaperonin) (Chaperonin 60) (CPN60) (Heat shock protein 60) (HSP-60) (Hsp60) (HuCHA60) (Mitochondrial matrix protein P1) (P60 lymphocytestrate
5.78	34+42SK12	0.085	84.6			
6.11	33	0.083	51.2			
6.21	33	0.083	57.9	sp|P14618|KPYM_	PKM	OIP3 PK2 PK3 Pyruvate kinase PKM (EC 2.7.1.40) (Cytosolic thyroid hormone-binding protein) (CTHBP) (Opa-interacting protein 3) (OIP-3) (Pyruvate kinase muscle isozyme) (Thyroid hormone-
6.37	32	0.080	70.9	sp|P11142|HSP7C	HSPA8	HSC70 HSP7 Heat shock cognate 71 kDa protein (Heat shock 70 kDa protein 8) (Lipopolysaccharide-associated protein 1) (LAP-1) (LPS-associated protein 1)
6.71	31	0.078	53.4	sp|P56537|FUS_H	FUS	TLS Fusion (Oncogene TLS) (POMp75) (Translocated in liposarcoma protein)
6.32	29	0.073	80.2	sp|Q92841|DDX17	DDX17	Probable ATP-dependent RNA helicase DDX17 (EC 3.6.4.13) (DEAD box protein 17) (DEAD box protein p72) (RNA-dependent helicase p72)
6.17	29	0.073	47.1	sp|P06733|ENOA_	ENO1	ENO1L1 MBP Alpha-enolase (EC 4.2.1.11) (2-phospho-D-glycerate hydro-lyase) (C-myc promoter-binding protein) (Enolase 1) (MBP-1) (MPB-1) (Non-neural enolase) (NNE) (Phosphopyruvate hydratase) (Plasminog
6.05	24	0.060	69.2	17PM_#1_ALBU_B	#N/A	#N/A
5.93	21	0.053	60			
4.93	21	0.053	53.5	sp|P26368|U2AF2	U2AF2	U2AF65 Splicing factor U2AF 65 kDa subunit (U2 auxiliary factor 65 kDa subunit) (hU2AF(65)) (hU2AF65) (U2 snRNP auxiliary factor large subunit)
5.21	19	0.048	95.3	sp|P36939|EF2_HU	EEF2	EF2 Elongation factor 2 (EF-2)
5.26	18	0.045	41.8	sp|P63261|ACTG_	ACTG1	ACTG Actin, cytoplasmic 2 (Gamma-actin) [Cleaved into: Actin, cytoplasmic 2, N-terminally processed]
6.18	18	0.045				
5.57	18	0.045	70.1	sp|Q9UBV9|NXF1_	NXF1	TAP Nuclear RNA export factor 1 (Tip-associated protein) (Tip-associating protein) (mRNA export factor TAP)
5.68	18	0.045	113	sp|P00874|PARP1	PARP1	ADPRT PPOL Poly [ADP-ribose] polymerase 1 (PARP-1) (EC 2.4.2.30) (ADP-ribosyltransferase diphtheria toxin-like 1) (ARTD1) (NAD(+) ADP-ribosyltransferase 1) (ADPRT 1) (Poly[ADP-ribose] synthase 1)
5.52	18	0.045	24.4	5W_TFYP_PIG	#N/A	#N/A
6	17	0.043				
6.03	17	0.043	38.7	sp|O00651|ROA1_	HNRNPA1	HNRPA1 Heterogeneous nuclear ribonucleoprotein A1 (hnRNP A1) (Helix-destabilizing protein) (Single-strand RNA-binding protein) (hnRNP core protein A1) [Cleaved into: Heterogeneous nuclear ribonucleopro
5.42	17	0.043	59.3	sp|O14498|RBM39	RBM39	HCC1 RNPC RNA-binding protein 39 (CAPER alpha) (Hepatocellular carcinoma protein 1) (DNA-binding-motif protein 39) (RNA-binding region-containing protein 2) (Splicing factor HCC1)
5.8	16	0.040	33.8	sp|O15075|GLO2_	HAGH	GLO2 HAGH Hydroxyacylglutathione hydrolase, mitochondrial (EC 3.1.2.6) (Glyoxalase II) (Glo2)
6.15	16	0.040	37.4	sp|P22626|ROA2_	HNRNPA2B1	HNRP Heterogeneous nuclear ribonucleoproteins A2/B1 (hnRNP A2/B1)
5.95	16	0.040	46.1	sp|Q9BY77|PDP3_	PDCD7P3	KIAA1649 Polymerase delta-interacting protein 3 (46 kDa DNA polymerase delta interaction protein) (p46) (SKA1 Ab/REF-like target) (SKAR)
5.85	15	0.038	30.8	sp|Q13151|ROA0_	HNRNPA0	HNRNPA0 Heterogeneous nuclear ribonucleoprotein A0 (hnRNP A0)
5.7	15	0.038				
5.33	15	0.038	14.4	sp|P53999|TCP4_H	SUB1	PC4 RPO27C3 Activated RNA polymerase II transcriptional coactivator p15 (Positive cofactor 4) (PC4) (SUB1 homolog) (p14)
5.83	13	0.033	18.6	sp|Q14011|CRBP_	CIRBP	A18HNRNP C Cold-inducible RNA-binding protein (A18 hnRNP) (Glycine-rich RNA-binding protein)(RBP)
5.39	13	0.033				
5.33	13	0.033	50.9	sp|P61978|HNRPK	HNRNPK	HNRPK Heterogeneous nuclear ribonucleoprotein K (hnRNP K) (Transformation-up regulated nuclear protein) (TUNP)
5.74	13	0.033	69.4	sp|Q96PK6|RBM14	RBM14	SIP RNA-binding protein 14 (Paraspeckle protein 2) (PSP2) (RNA-binding motif protein 14) (RRM-containing coactivator activator/modulator) (Synaptotagmin-interacting protein) (SYT-interacting protein)
5.72	13	0.033	53.6	sp|P08670|VIME_	VIM	Vimentin
5.98	13	0.033	35.9	sp|P67809|YBX1_	YBX1	NSEP1 Y01 Nuclease-sensitive element-binding protein 1 (CCAAT-binding transcription factor I subunit A) (CBF-A) (DNA-binding protein B) (DBPB) (Enhancer factor I subunit A) (EFI-A) (Y-box transcription factor)(Y
5.39	12	0.030	76.6	sp|P19338|NUCL_	NCL	Nucleolin (Protein C23)
5.53	12	0.030	22.5	sp|Q06830|PRDX1	PRDX1	PAGA PAGB Peroxiredoxin-1 (EC 1.11.1.15) (Natural killer cell-enhancing factor A) (NKEF-A) (Proliferation-associated gene protein) (PAG) (Thioredoxin-peroxidase 2) (Thioredoxin-dependent peroxide reductase2)
5.65	12	0.030	88.5	sp|O15263|TF3B_	TBRM28	KAP1 RNF9 Transcription intermediary factor 1 beta (TIF1 beta) (E3 SUMO-protein ligase TRIM28) (EC 6.3.2.-) (KRAB-associated protein 1) (KAP-1) (KRAB-interacting protein 1) (KRIP-1) (Nuclear corepressor KAP-
5.17	11	0.028	44.2	sp|Q96GC2|ALKB5	ALKBH5	ABH5 OFO RNA demethylase ALKBH5 (EC 1.14.11.-) (Alkylated DNA repair protein alkB homolog 5) (Alpha-ketoglutarate-dependent dioxygenase alkB homolog 5)
5.07	11	0.028	20.2	sp|P62913|RL11_H	RPL11	60S ribosomal protein L11 (L1; associated antigen KW-12)
4.88	10	0.025	110.3	sp|P55060|XPO2_	CSE1L	CAS XPO2 Exportin-2 (Dap2) (Cellular apoptosis susceptibility protein) (Chromosome segregation 1-like protein) (Importin-alpha-exporter)
4.94	10	0.025	49.2	sp|P31943|HNRH1	HNRNPH1	HNRPH1 Heterogeneous nuclear ribonucleoprotein H (hnRNP H) [Cleaved into: Heterogeneous nuclear ribonucleoprotein H, N-terminally processed]
5.19	10	0.025	25	sp|P30041|PRDX6	PRDX6	ACP2 KIAA0 Peroxiredoxin-6 (EC 1.11.1.15) (1-Cys peroxiredoxin) (1-Cys PRX) (24 kDa protein) (Acidic calcium-independent phospholipase A2) (aiPLA2) (EC 3.1.1.-) (Antioxidant protein 2) (Liver 2D page spot 40) (N
5.23	10	0.025	79.5	sp|Q99622|RAU_	RAUER1	Ribonucleoprotein PTB-binding 1
5.14	10	0.025	22.4	sp|P37802|TAGL2_	TAGLN2	KIAA0120 C Transgelin-2 (Epithelin/ovarian tissue protein Lr 7e) (SM22-alpha homolog)
5.85	10	0.025	30.8	sp|P60174|TPIS_H	TPI1	TPI Triosephosphate isomerase (TIM) (EC 5.3.1.1) (Triose-phosphate isomerase)
5.67	10	0.025	40.1	sp|P16989|YBX3	YBX3	CSDA DBPA Y-box binding protein 3 (Cold shock domain-containing protein A) (DNA-binding protein A) (Single-strand DNA-binding protein-NF-GMB)
5.95	9	0.023	51.5	sp|P05783|KC1A_	KRT14	Keratin, type I cytoskeletal 14 (Cytokeratin-14) (CK-14)(Keratin-14) (K14)
4.86	9	0.023	51.4	sp|P05023|CT.5_	LUC7L3	CREAP1 CR Luc7-like protein 3 (Cisplatin resistance-associated-overexpressed protein) (Luc7A) (Double acid-insoluble phosphoprotein DIMB-18) (cAMP regulatory element-associated protein 1) (CRE-associated
4.79	9	0.023	68.3	sp|Q15637|SF1_	SF1	ZFM1 ZNF162 Splicing factor 1 (Mammalian branch point-binding protein) (BBP) (mBBP) (Transcription factor ZFM1) (Zinc finger gene in MEN1 locus) (Zinc finger protein 162)
5.49	9	0.023	11.7	sp|Q8WUM4|TM2	TMEM261	C12orf2 Transmembrane protein 261
4.04	8	0.020	57.5	sp|P78371|TCP9_H	CCT2	99DB.1 CCTB T-complex protein 1 subunit beta (TCP-1-beta) (CCT-beta)
4.75	8	0.020	42.6	sp|P36509|DEK_H	DEK	Protein DEK
4.44	8	0.020	63.1	sp|P06744|G6PI_H	GPI	Glucose-6-phosphate isomerase (GPI) (EC 5.3.1.9) (Autocrine motility factor) (AMF) (Neuroleukin) (NLK) (Phosphoglucose isomerase) (PGI) (Phosphohexose isomerase) (PHI) (Sperm antigen 36) (SA-36
5.15	8	0.020	23.9	sp|P62807|H2B1C	HIST1H2BC	H2BFL Histone H2B type 1-C/E/F/G/I (Histone H2B.1 A) (Histone H2B.a) (H2B.1A) (Histone H2B.g) (H2B.1G) (Histone H2B.k) (H2B.1K) (Histone H2B.n) (H2B.1N) (Histone H2B.q) (H2B.1Q)
5.76	8	0.020	83.2	sp|P08238|HS90B	HSP90AB1	HSP90B Heat shock protein HSP 90-beta (HSP 90) (Heat shock 84 kDa) (HSP 84) (HSP84)
5.19	8	0.020	32.6	sp|P05748|NPM_H	NPM1	NPM Nucleophosmin (NPM) (Nucleolar phosphoprotein B23) (Nucleolar protein NO38) (Numatrin)
5.64	8	0.020	18	sp|P62937|PPIA_H	PPIA	CYPA Peptidyl-prolyl cis-trans isomerase A (PPIase A) (EC 5.2.1.8) (Cyclophilin A) (Cyclosporin-A-binding protein) (Rotamase A) [Cleaved into: Peptidyl-prolyl cis-trans isomerase A, N-terminallyprocessed]
4.54	8	0.020	59.8	sp|Q96I99|PUF60	PUF60	FIR ROBP1 Poly(U-binding-splicing factor PUF60 (60 kDa poly(U-binding-splicing factor) (FUSE-binding protein-interacting repressor) (FBP-interacting repressor) (Fis-binding protein 1) (RoBP1) (Siah-binding prot
5.51	8	0.020	14.8	sp|P35268|RL22_H	RPL22	60S ribosomal protein L22 (EBER-associated protein) (EAP) (Epstein-Barr virus small RNA-associated protein) (Heparin-binding protein HBp15)
5.42	8	0.020	62.6	sp|P31946|1433B_	YWHAB	1433B Tyrosine 3-/tryptophan 5-monooxygenase activation protein beta (Protein kinase C inhibitor protein-1) (KCIP-1) (14-3-3 protein beta/alpha) (Protein 1054) (Protein 14-3-3B) (Mitochondrial import stimulation factor L subunit) (MSF L subunit) (Proteins 14-3-3B/A) (Tyrosine 3-/tryptophan 5-monooxygenase/tryptophan 5-monooxygenase activation protein, mitochondrial precursor) (Tyrosine 3-/tryptophan 5-monooxygenase activation protein, eta polypeptide) [Cleaved into: 14-3-3 protein beta/alpha, N-terminally processed]
5.34	8	0.020	114.5	sp|Q14157|UBP2L_	UBAP2L	KIAA0144 Ubiquitin-associated protein 2-like (Protein NICE-4)
4.91	7	0.018	46.1	sp|P60842|IF4A1_	EIF4A1	DDX2A EIF4 Eukaryotic initiation factor 4A-I (eIF-4A-I) (eIF4A-I) (EC 3.6.4.13) (ATP-dependent RNA helicase eIF4A-1)
5.33	7	0.018	21.4	sp|P16403|H12_H	HIST1H1C	H1F2 Histone H1.2 (Histone H1c) (Histone H1d) (Histone H1.c)
5.3	7	0.018	73.1	sp|Q92945|FUBP2	KHSRP	FUBP2 Far upstream element-binding protein 2 (FUSE-binding protein 2) (KH type-splicing regulatory protein) (KSRP) (p75)
5.27	7	0.018	46.5	sp|Q9H383|C7L2_	LUC7L2	C10-19-CG9 Putative RNA-binding protein Luc7-like 2
4.71	7	0.018	23.5	sp|P51148|RAB5C	RAB5C	RAB1 Ras-related protein Rab-5C (L1880) (RAB5L)
5.23	6	0.015	28.6	sp|P39687|AN32A	ANP32A	C15orf13 LA Acidic leucine-rich nuclear phosphoprotein 32 family member A (Acidic nuclear phosphoprotein pp32) (pp32) (Leucine-rich acidic nuclear protein) (LANP) (Mapmodulin) (Potent heat-stable proteinph
4.52	6	0.015	191.5	sp|Q00610|CLH1_	CLTC	CLH17.5 CTCL2 Clathrin heavy chain 1 (Clathrin heavy chain on chromosome 17) (CLH-17)
5.61	6	0.015	68.4	sp|Q01844|EWS_H	EWSR1	EWS RNA-binding protein EWS (EWS oncogene) (Ewing sarcoma breakpoint region 1 protein)
5.32	6	0.015	67.5	sp|Q96AE4|FUBP1	FUBP1	Far upstream element-binding protein 1 (FBP) (FUSE-binding protein 1) (DNA helicase V) (hDH V)
5.09	6	0.015	30.5	tr|E9PD18|DDRD1	HNRNPAB	Heterogeneous nuclear ribonucleoprotein A/B
5	6	0.015	36.9	sp|P31942|HNRH3	HNRNPH3	HNRPH3 Heterogeneous nuclear ribonucleoprotein H3 (hnRNP H3) (Heterogeneous nuclear ribonucleoprotein 2H9) (hnRNP 2H9)
4.78	6	0.015	97.1	sp|O14978|IMB1_	KPNB1	NTF97 Importin subunit beta-1 (Importin-90) (Karyopherin subunit beta-1) (Nuclear factor p97) (Pore targeting complex 97 kDa subunit) (PTAC97)
4.98	6	0.015	58.7	sp|Q8WXF1|PSPC1	PSPC1	PSP1 Paraspeckle component 1 (Paraspeckle protein 1)
5.45	6	0.015	40.3	sp|Q9BWF3|RBM4	RBM4	RBM4a RNA-binding protein 4 (Lark homolog) (hLark) (RNA-binding motif protein 4) (RNA-binding motif protein 4a)
5.4	6	0.015	33.5	sp|Q01105|SET_H	SET	Protein SET (HLA-DR-associated protein II) (Inhibitor of granzyme A-activated DNase) (IGAD2) (PHAPII) (Phosphatase 2A inhibitor I2PP2A) (I-2PP2A) (Template-activating factor I) (TAF-I)
4.25	6	0.015	75.4	sp|P42166|LAP2A_	TMPO	LAP2 Lamina-associated polypeptide 2, isoform alpha (Thymopoietin isoform alpha) (TP alpha) (Thymopoietin-related peptide isoform alpha) (TPRP isoform alpha) [Cleaved into: Thymopoietin (TP) (Splenin
4.61	6	0.015	27.9	sp|P09234|SNRPC	SNRPC	U1-C Splicing factor U2AF 35 kDa subunit-like protein (U2 small nuclear RNA auxiliary factor 1-like protein 5)
5	5	0.013	44.6	sp|Q8N673|ARFGP2	ARFGAP2	ARF1GAP ADP-ribosylation factor GTPase-activating protein 1 (ARF-GAP 1) (ADP-ribosylation factor 1 GTPase-activating protein) (ARF1 GAP) (ARF1-directed GTPase-activating protein)
3.9	5	0.013	21.9	sp|Q96NW0|CKAP1	CKAP1	LB1 TMAP Cytoskeleton-associated protein 2 (CTCL tumor antigen se20-10) (Tumor- and microtubule-associated protein)
4.48	5	0.013	133.7	sp|O14654|IRS4_H	IRS4	Insulin receptor substrate 4 (IRS-4) (160 kDa phosphotyrosine protein) (pp160) (Phosphoprotein of 160 kDa) (pp150)
4.85	5	0.013	36.6	sp|P07195|LDHB_	LDHB	L-lactate dehydrogenase B chain (LDH-B) (EC 1.1.1.27) (LDH heart subunit) (LDH-H) (Renal carcinoma antigen NY-REN-46)
5.33	5	0.013	30.5	sp|Q96QB1|LENG1	LENG1	Leukocyte receptor cluster member 1
5.27	5	0.013	50.5	sp|Q8NC51|STAM	STAM	STAM1 Protein STAM1 Protein STAM1 homolog A (Protein FAMILY) (Protein SC06 homolog) (Putative alpha-synuclein-binding protein) (AlphaSNBP) (RNA-associated protein 55A) (HRAP55) (hRAP55A)
5.26	5	0.013	16.9	sp|P60660|MYL6_	MYL6	Myosin light polypeptide 6 (17 kDa myosin light chain) (LC17) (Myosin light chain 3) (MLC-3) (Myosin light chain alkali 3) (Smooth-muscle and nonmuscle myosin light chain alka
5.67	5	0.013	64.6	sp|Q9H1R3|MYLK2	MYLK2	Myosin light chain kinase 2, skeletal/cardiac muscle (MLCK2) (EC 2.7.11.18)
4.76	5	0.013	21.9	sp|P31119|PRDX2	PRDX2	NKEF B TDPX Peroxiredoxin-2 (EC 1.11.1.15) (Natural killer cell-enhancing factor B) (NKEF-B) (PRP) (Thiol-specific antioxidant protein) (TSA) (Thioredoxin peroxidase 1) (Thioredoxin-dependent peroxide reductase 1
5.2	5	0.013	15.9	sp|P00441|SODC_	SOD1	Superoxide dismutase [Cu-Zn] (EC 1.15.1.1) (Superoxide dismutase 1)(hSod1)
4.21	5	0.013	89.3	sp|P55072|TERA_H	VCP	Transitional endoplasmic reticulum ATPase (TER ATPase) (EC 3.6.4.6) (155 kDa)(2-6) ATPase p97 subunit) (Valosin-containing protein)(VCP)
4.76	5	0.013	29.2	sp|P62258|1433E_	YWHAE	14-3-3 protein epsilon (14-3-3E)
5.26	4	0.010	41.7	sp|P60709|ACTB_	ACTB	Actin, cytoplasmic 1 (Beta-actin) [Cleaved into: Actin, cytoplasmic 1, N-terminallyprocessed]
4.92	4	0.010	44.9	sp|Q86IP3|ARIP4_	ARIP4	ADP-ribosylation factor-like protein 6-interacting protein 4 (ARL-6-interacting protein 4) (Akp-4) (HSP-975) (HSVI-binding protein) (SR-15) (SRp25) (SR-25) (Splicing factor SRrp27)
3.64	4	0.010	28.3	sp|P04632|CPN1S	CAPNS1	CAPN4 CAP Calpain small subunit 1 (CSS1) (Calcium-activated neutral proteinase small subunit) (CANP small subunit) (Calcium-dependent protease small subunit) (CDPS) (Calcium-dependent protease smallsubun
5.05	4	0.010	18.5	sp|P35238|COF1_	CFL1	CFL Cofilin-1 (18 kDa phosphoprotein) (p18) (Cofilin, non-muscle isoform)
4.53	4	0.010	52.5	sp|Q96DF8|DGCR14	DGCR14	DGCR13 D Protein DGCR14 (DiGeorge syndrome critical region 13) (DiGeorge syndrome critical region 14) (DiGeorge syndrome protein 9) (DGS-9) (Protein ES2)
4.8	4	0.010	38	sp|P25685|DNJB1	DNAJB1	DNAJ Dnaj homolog subfamily B member 1 (Dnaj protein homolog 1) (heat shock 40 kDa protein 1) (HSPH40) (Heat shock protein 40) (Human Dnaj protein 1) (HDJ-1)
4.95	4	0.010	12.3	sp|P84090|ERH_H	ERH	Enhancer of rudimentary homolog
5.04	4	0.010	13.2	sp|Q9H423|FAM32A	FAM32A	OTAG12C Protein FAM32A (Ovarian tumor-associated gene 12) (OTAG-12)

5

PLCb1-associated proteins in cytosolic fractions of A10 cells at 300 mOsm (basal)

5.15	4	0.010	22.5	sp|Q5QS22|H2X_H	H3/X	Histone H2x
4.97	4	0.010	14.2	sp|Q96QV6|H2A3A	H0/T3H2A	Histone H2A type 3-A (Histone H2A/v)
5.21	4	0.010	24.9	sp|P09429|HMGB	HMG1	High-mobility group protein B1 (High-mobility group protein 1) (HMG-1)
5.25	4	0.010	23.4	sp|Q13765|NACA_	NACA	Nascent polypeptide-associated complex subunit alpha (NAC-alpha) (Alpha-NAC) (Allergen Hom s 2)
4.77	4	0.010	19.9	sp|Q99497|PARK7	PARK7	Protein deglycase DJ-1 (Dn 1) (EC 3.1.2.-) (EC 3.5.1.-) (Oncogene DJ1) (Parkinson disease protein 7)
4.88	4	0.010	37.5	sp|Q15365|PCBP1	PCBP1	Poly(rC)-binding protein 1 (Alpha-CP1) (Heterogeneous nuclear ribonucleoprotein E1) (hnRNP E1) (Nucleic acid-binding protein SUB2.3)
5.45	4	0.010	15	sp|P07737|PROF1	PFN1	Profilin-1 (Epididymis tissue protein Li 184a) (Profilin)
5.25	4	0.010	12.2	sp|P06454|PTMA_	PTMA TMSA	Prothymosin alpha (Cleaved into: Prothymosin alpha, N-terminally processed; Thymosin alpha-1)
4.89	4	0.010	24.4	sp|P62826|RAN_H	RAN ARA24 OK/SW	GTP-binding nuclear protein Ran (Androgen receptor-associated protein 24) (GTPase Ran) (Ras-like protein TC4) (Ras-related nuclear protein)
4.79	4	0.010	17.2	sp|P98179|RBME_	RBM3 RNPL	RNA-binding protein 3 (RNA-binding motif protein 3) (RNPL)
4.57	4	0.010	44.9	sp|Q8NC51|PAIRB	SERBP1 RNBP5 C1	Plasminogen activator inhibitor 1 RNA-binding protein (PAI1 RNA-binding protein 1) (PAI-RBP1) (SERPINE1 mRNA-binding protein 1)
5.06	4	0.010	46.4	sp|P50454|SERPH_	SERPINH1 CBP1 CBP	Serpin H1 (47 kDa heat shock protein) (Arsenic-transactivated protein 3) (As3T3) (Cell proliferation-inducing gene 14 protein) (Collagen-binding protein) (Colligin) (Rheumatoid arthritis-related antigen
5.24	4	0.010	33.7	sp|Q9NX46|SMS_	SIRT5 SIR2L5	NAD+-dependent protein deacylase sirtuin-5, mitochondrial (EC 3.5.1.-) (Regulatory protein SIR2 homolog 5) (SIR2-like protein 5)
5.04	4	0.010	14.6	sp|P37108|SRP14_	SRP14	Signal recognition particle 14 kDa protein (SRP14) (18 kDa Alu RNA-binding protein)
5.26	4	0.010	10.1	sp|P49458|SRP09_	SRP9	Signal recognition particle 9 kDa protein (SRP9)
5.11	4	0.010	25.5	sp|Q01130|SRSF2_	SRSF2 SFRS2	Serine/arginine-rich splicing factor 2 (Protein PR264) (Splicing component, 35 kDa) (Splicing factor SC35) (SC-35) (Splicing factor, arginine/serine-rich 2)
5.09	4	0.010	41.3	sp|P50502|STA1_	ST13 AAG2 FAM53A	Hsc70-interacting protein (Hip) (Aging-associated protein 2) (Progesterone receptor-associated p48 protein) (Protein FAM53A1) (Putative tumor suppressor ST13) (Renal carcinoma antigen NY-REN-33
5.3	4	0.010	14.2	sp|Q9UJ10|TRI12_	TRMT112 AD-001H	Multifunctional methyltransferase subunit TRM112-like protein (tRNA methyltransferase 112 homolog)
5.32	4	0.010	14.7	sp|P62987|RL40_H	UBA52 UBC1P2	Ubiquitin-60S ribosomal protein L40 (CEP52) (Ubiquitin A 52 residue ribosomal protein fusion product 1) (Cleaved into: Ubiquitin; 60S ribosomal protein L40)
5.1	3	0.008	26.2	sp|Q9HB71|CYBP_	CACYBP S100A6BP	Calcyclin-binding protein (CacyBP) (HCacyBP) (S100A6-binding protein) (Siah-interacting protein)
4.94	3	0.008	30.4	sp|P31532|CBR1_	CBR1 CBR CRN5DR	Carbonyl reductase [NADPH] 1 (EC 1.1.1.184) (15-hydroxyprostaglandin dehydrogenase [NADP+]) (EC 1.1.1.197) (NADPH-dependent carbonyl reductase 1) (Prostaglandin 9-ketoreductase) (Prostag
4.74	3	0.008	43.4	sp|Q96EP5|DAZP1	DAZAP1	DAZ associated protein 1 (Deleted in azoospermia-associated protein 1)
4.68	3	0.008	31.1	sp|P29692|EF1D_H	EF1D	Elongation factor 1-delta (EF-1-delta) (Antigen NY-CO-9)
4.25	3	0.008	108.1	sp|Q9NX40|4E1_H	EIF4ENIF1	Eukaryotic translation initiation factor 4E transporter (4E-T) (eIF4E transporter) (Eukaryotic translation initiation factor 4E nuclear import factor 1)
4.61	3	0.008	69.4	sp|P15311|EZR_H	EZR VIL2	Ezrin (Cytovillin) (Villin-2) (p81)
4.02	3	0.008	292.6	sp|Q92616|GCN1_	GCN1 GCN1L1 KIAA	eIF 2-alpha kinase activator GCN1 (GCN1 eIF-2-alpha kinase activator homolog) (GCN1-like protein 1) (General control of amino-acid synthesis 5-like protein 1) (Translational activator GCN1) (HsGCN1
4.35	3	0.008	150	sp|Q9Y2W6|PERQ	GIOY2 KIAA0642	PERQ amino acid-rich with GYF domain-containing protein 2 (GIRB10-interacting GYF protein 2) (Trinucleotide repeat-containing gene 15 protein)
5.11	3	0.008	39.6	sp|P51991|ROA3_	HNRNPA3 HNRPA3	Heterogeneous nuclear ribonucleoprotein A3 (hnRNP A3)
4.94	3	0.008	90.5	sp|Q00839|HNRPU	HNRNPU HNRPU SA	Heterogeneous nuclear ribonucleoprotein U (hnRNP U) (Scaffold attachment factor A) (SAF-A) (p120) (pp120)
4.26	3	0.008	123.5	sp|O00410|IPO5_	IPO5 KPNB3 RANBP	Importin-5 (Imp5) (Importin subunit beta-3) (Karyopherin beta-3) (Ran-binding protein 5) (RanBP5)
4.17	3	0.008	57.8	sp|P52292|IMA1_	KPNA2 RCH1 SRP1	Importin-subunit alpha-1 (Karyopherin-subunit alpha-2) (RAG cohort protein 1) (SRP1-alpha)
4.86	3	0.008	53.7	sp|P05787|K2C8_H	KRT8 CYK8	Keratin, type II cytoskeletal 8 (Cytokeratin-8) (CK-8) (Keratin-8) (K8) (Type-II keratin KB8)
5.03	3	0.008	42	sp|Q9BXJ0|LS14B	LSM14B C20orf40	Protein LSM14 homolog B (Protein FAM61B) (RNA-associated protein 55B) (hRAP55B)
4.47	3	0.008	92.8	sp|Q13601|MAT0	MAP7D1 KIAA1587	MAP7 domain-containing protein 1 (Arginine/proline-rich coiled-coil domain-containing protein 1) (Proline/arginine-rich coiled-coil domain-containing protein 1)
4.81	3	0.008	26.2	sp|O43809|CPSF5	NUDT21 CFIM25 CF	Cleavage and polyadenylation specificity factor subunit 5 (Cleavage and polyadenylation specificity factor 25 kDa subunit) (CFIm25) (CPSF 25 kDa subunit) (Nucleoside diphosphate-linked moiety X mo
4.79	3	0.008	38.6	sp|Q15366|PCBP2	PCBP2	Poly(rC)-binding protein 2 (Alpha-CP2) (Heterogeneous nuclear ribonucleoprotein E2) (hnRNP E2)
4.58	3	0.008	56.6	sp|O43175|SERA_	PHGDH PGDH3	D-3-phosphoglycerate dehydrogenase (3-PGDH) (EC 1.1.1.95)
4.64	3	0.008	13.8	sp|Q9H22|PINA_H	PIN4	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 (EC 5.2.1.8) (Parvulin-14) (Par14) (hPar14) (Parvulin-17) (Par17) (hPar17) (Peptidyl-prolyl cis-trans isomerase Pin4) (PPIase Pin4)(Peptidyl-prolyl
4.62	3	0.008	23.7	sp|P23284|PPIB_H	PPIB CYPB	Peptidyl-prolyl cis-trans isomerase B (PPIase B) (EC 5.2.1.8) (CYP-S1) (Cyclophilin B) (Rotamase B) (S-cyclophilin) (SCYLP)
4.74	3	0.008	228.7	sp|P48634|PRC2A	PRRC2A BAT2 G2	Protein PRRC2A (HLA-B-associated transcript 2) (Large proline-rich protein BAT2) (Proline-rich and coiled-coil-containing protein 2A) (Protein G2)
4.66	3	0.008	23	sp|Q15286|RAB35	RAB35 RAB1C RAY	Ras-related protein Rab-35 (GTP-binding protein RAY) (Ras-related protein Rab-1C)
4.35	3	0.008	43.1	sp|P54727|RD23B	RAD23B	UV excision repair protein RAD23 homolog B (HR23B) (XP-C repair-complementing complex 58 kDa protein) (p58)
5.01	3	0.008	47.6	sp|Q09028|RBBP4	RBBP4 RBAP48	Histone-binding protein RBBP4 (Chromatin assembly factor 1 subunit C) (CAF-1 subunit C) (Chromatin assembly factor 1 p48 subunit) (CAF-1 48 kDa subunit) (CAF-1 p48) (Nucleosome-remodeling factor
4.38	3	0.008	11.5	sp|P05386|RLA1_H	RPLP1 RBP1	60S acidic ribosomal protein P1
4.69	3	0.008	11.7	sp|P05387|RLA2_H	RPLP2 D15S2243E	60S acidic ribosomal protein P2 (Renal carcinoma antigen NY-REN-44)
4.83	3	0.008	18.9	sp|P46783|RS10_H	RPS10	40S ribosomal protein S10
4.38	3	0.008	50.2	sp|Q9Y265|RUVR1	RUVBL1 INO80H N	RuvB-like 1 (EC 3.6.4.12) (49 kDa TATA box-binding protein-interacting protein) (49 kDa TBP-interacting protein) (54 kDa erythrocyte cytosolic protein) (ECP-54) (INO80 complex subunit H) (Nuclear m
4.6	3	0.008	100.2	sp|Q13435|SF3B2	SF3B2 SAP145	Splicing factor 3B subunit 2 (Pre-mRNA-splicing factor SF3b 145 kDa subunit) (SF3b145) (SF3b150) (Spliceosome-associated protein 145) (SAP 145)
5.02	3	0.008	17.4	sp|P09234|RL51C_	SNRPC	U1 small nuclear ribonucleoprotein C (U1 snRNP C) (U1-C) (U1C)
5.45	3	0.008	13.9	sp|P62318|SMD3_	SNRPD3	Small nuclear ribonucleoprotein Sm D3 (Sm-D3) (snRNP core protein D3)
4.89	3	0.008	9.7	sp|P62306|RL9F_	SNRPF PRKXF	Small nuclear ribonucleoprotein F (snRNP F) (Sm protein F) (Sm-F)(SmF)
4.7	3	0.008	39.9	sp|Q96AH0|SYAP1	SYAP1 PRO33113	Synapse-associated protein 1
6.35	3	0.008	49.6	sp|P04350|TBB4A	TUBB4A TUBB4 TUB	Tubulin beta-4A chain (Tubulin 5 beta) (Tubulin beta-4/chain)
4	3	0.008	69.8	sp|P12956|XRCC6	XRCC6 G22P1	X-ray repair cross-complementing protein 6 (EC 3.6.4.-) (EC 4.2.99.-) (5'-deoxyribose-5-phosphate lyase Ku70) (5'-dRP lyase Ku70) (70 kDa subunit of Ku antigen) (ATP-dependent DNA helicase 2 subun
3.97	2	0.005	103	sp|P12814|ACTN1	ACTN1	Alpha-actinin-1 (Alpha-actinin cytoskeletal isoform) (F-actin cross-linking protein) (Non-muscle alpha-actinin-1)
4.27	2	0.005	20.7	sp|P84077|ARF1_H	ARF1	ADP-ribosylation factor 1
3.5	2	0.005	20.4	sp|P40616|ARL1_H	ARL1	ADP-ribosylation factor-like protein 1
3.99	2	0.005	56.8	sp|Q9UHB4|B2L1	BAIAP2L1 IRTKS	Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1 (BAI1-associated protein 2-like protein 1) (Insulin receptor tyrosine kinase substrate)
4.81	2	0.005	22.2	sp|P20290|BTF3_H	BTF3 NACB OK/SW	Transcription factor BTF3 (Nascent polypeptide-associated complex subunit beta) (NAC-beta) (DNA polymerase B transcription factor 3)
4.13	2	0.005	13.2	sp|Q9NX22|C10_H	C11orf57 C10	Protein C10
4.4	2	0.005	28.1	sp|Q9Y224|CN166	C14orf166 CGI-99	UPF0568 protein C14orf166 (CLE7 homolog) (CGI)
4.07	2	0.005	136.3	sp|Q86VP6|CAND1	CAND1 KIAA0829	Cullin-associated NEDD8-dissociated protein 1 (Cullin-associated and neddylation-dissociated protein 1) (TBP-interacting protein 120A) (TBP-interacting protein 120A) (p120 CAND1)
4.24	2	0.005	20.8	sp|Q13185|CBX3_	CBX3	Chromobox protein homolog 3 (HECH) (Heterochromatin protein 1 homolog gamma) (HP1 gamma) (Modifier 2 protein)
4.85	2	0.005	102.8	sp|Q8N163|CCAR2	CCAR2 DBC1 KIAA1	Cell cycle and apoptosis regulator protein 2 (Cell division cycle and apoptosis regulator protein 2) (DBIRD complex subunit KIAA1967) (Deleted in breast cancer gene 1 protein) (DBC-1) (DBC 1) (NET35)
4.05	2	0.005	57.9	sp|P50991|TCPD_	CCT4 CCTD SR8	T-complex protein 1 subunit delta (TCP-1-delta) (CCT-delta) (Stimulator of TAR RNA-binding)
3.8	2	0.005	175.2	sp|Q59H79|CET70	CEP70 FAM88A KA	Centrosomal protein of 170 kDa (Cep170) (KARP-1-binding protein) (KARP1-binding protein)
4.68	2	0.005	20.9	sp|Q10567|CSRP2	CSRP2 LMO5 SMLIM	Cysteine and glycine-rich protein 2 (Cysteine-rich protein 2) (CRP2) (LIM domain only protein 5) (LMO-5) (Smooth muscle cell LIM protein) (SmLIM)
4.23	2	0.005	11.1	sp|P81605|DCD_H	DCD AIDD DSEP	Dermcidin (EC 3.4.-.-) (Preprotelnylin) [Cleaved into: Survival-promoting peptide; DCD-1]
4.28	2	0.005	117.3	sp|Q13206|DDX46	DDX46 KIAA0801	Probable ATP-dependent RNA helicase DDX46 (EC 3.6.4.13) (DEAD box protein 46) (PRP5 homolog)
4.49	2	0.005	61.6	sp|Q9NY93|DDX56	DDX56 DDX21 NOH	Probable ATP-dependent RNA helicase DDX56 (EC 3.6.4.13) (ATP-dependent 61 kDa nucleolar RNA helicase) (DEAD box protein 21) (DEAD box protein 56)
3.84	2	0.005	45.3	sp|O60884|DNAJA2	DNAJA2 CPR3 HdhJ	Dna J homolog subfamily A member 2 (Cell cycle progression restoration gene 3 protein) (Cm3) (Cb3) (HdhJ-interacting protein 4) (Renal carcinoma antigen NY-REN-14)
4.69	2	0.005	56.4	sp|Q99615|DNJC7	DNAJC7 TPR2 TTC2	Dna J homolog subfamily C member 7 (Tetratricopeptide-repeat protein 2) (TPR repeat protein 2)
4.52	2	0.005	24.7	sp|P29534|EF1B_H	EEF1B2 EEF1B EF1	Elongation factor 1-beta (EF-1-beta)
4.78	2	0.005	51.1	sp|P41091|IF2G_H	EIF2S3 EIF2G	Eukaryotic translation initiation factor 2 subunit 3 (Eukaryotic translation initiation factor 2 subunit gamma X) (eIF-2 gamma X) (eIF-2gX)
3.7	2	0.005	92.4	sp|P55884|IF3B_	EIF3B EIF3S9	Eukaryotic translation initiation factor 3 subunit B (eIF3B) (Eukaryotic translation initiation factor 3 subunit 9) (PrT) homolog) (PrrT1) (eIF-3-eta) (eIF3 p110) (eIF3 p116)
4.2	2	0.005	16.8	sp|P63241|IF5A1_	EIF5A	Eukaryotic translation initiation factor 5A-1 (eIF-5A-1) (eIF-5A1)(Eukaryotic initiation factor 5A isoform 1) (eIF-5A) (Rev-binding factor) (eIF-4D)
4.57	2	0.005	15.2	sp|Q01469|FABP5	FABP5	Fatty acid-binding protein, epidermal (Epidermal-type fatty acid-binding protein) (E-FABP) (Fatty acid-binding protein 5) (Psoriasis-associated fatty acid-binding protein homolog) (PA-FABP)
4.36	2	0.005	28.4	sp|Q5JRX9|F133B	FAM133B	Protein FAM133B
4.16	2	0.005	57.5	sp|Q9Y285|SYFA_	FARSA FARS FARSL	Phenylalanine--tRNA ligase alpha subunit (EC 6.1.1.20) (CMS33) (Phenylalanyl-tRNA synthetase alpha subunit) (PheRS)
4.03	2	0.005	273.3	sp|P49327|FAS_H	FASN FAS	Fatty acid synthase (EC 2.3.1.85) [Includes: [Acyl-carrier-protein] S-acetyltransferase (EC 2.3.1.38); [Acyl-carrier-protein] S-malonyltransferase (EC 2.3.1.39); 3-oxoacyl-[acyl-carrier-protein] synthase (E
4.32	2	0.005	25.2	sp|Q00688|FKBP3	FKBP3 FKBP25	Peptidyl-prolyl cis-trans isomerase FKBP3 (PPIase FKBP3) (EC 5.2.1.8) (25 kDa FK506-binding protein) (25 kDa FKBP) (FKBP-25) (FK506-binding protein 3) (FKBP-3) (Immunophilin FKBP25)(Rapamycin-s
4.26	2	0.005	51.8	sp|Q02790|FKBP4	FKBP4 FKBP52	Peptidyl-prolyl cis-trans isomerase FKBP4 (PPIase FKBP4) (EC 5.2.1.8) (51 kDa FK506-binding protein) (FKBP51) (52 kDa FK506-binding protein) (52 kDa FKBP) (FKBP-52) (59 kDa immunophilin) (p59) (F
4.28	2	0.005	52.1	sp|O13283|GBP3	G3BP1 G3BP	Ras GTPase-activating protein-binding protein 1 (G3BP-1) (EC 3.6.4.12) (EC 3.6.4.13) (ATP-dependent DNA helicase VIII) (DDX19) (DEAD box protein 19) (GAP SH3 domain-binding protein 1)
4.21	2	0.005	76.6	sp|Q9NX55|GTR1	GTR1	G2 and S phase-expressed protein 1 (GTSE-1) (Protein B99 homolog)
3.6	2	0.005	131.3	sp|Q92L8|HDAC	HDAC6 KIAA0901	Histone deacetylase 6 (HDA6) (EC 3.5.1.98)
4.02	2	0.005	11.4	sp|P62805|H4_H3	HIST1H4A HIA;H4I	Histone H4
4.96	2	0.005	45.6	sp|P52597|HNRHF	HNRNPF HNRPF	Heterogeneous nuclear ribonucleoprotein F (hnRNP F) (Nucleolin-like protein mcs94-1) [Cleaved into: Heterogeneous nuclear ribonucleoprotein F, N-terminally processed]
3.89	2	0.005	55.8	sp|P12268|IMDH2	IMPDH2 IMPD2	Inosine-5'-monophosphate dehydrogenase 2 (IMP dehydrogenase 2) (IMPD 2) (IMPDH 2) (EC 1.1.1.205) (IMPDH-II)
3.71	2	0.005	94.2	sp|Q8WP85|KI18B_	KIF18B	Kinesin-like protein KIF18B
5.42	2	0.005	48.1	sp|O04695|K1C17	KRT17	Keratin, type I cytoskeletal 17 (99.1) (Cytokeratin-17) (CK-17) (Keratin-17) (K17)
3.72	2	0.005	59.1	sp|Q8BRT7|SKL1	MAPKAP1 MIP1 SIN	Target of rapamycin complex 2 subunit MAPKAP1 (TORC2 subunit MAPKAP1) (Mitogen-activated protein kinase 2-associated protein 1) (Stress-activated map kinase-interacting protein 1) (SAPK-inter
4.34	2	0.005	35.5	sp|P40926|MDHM	MDH2	Malate dehydrogenase, mitochondrial (EC 1.1.1.37)
3.47	2	0.005	74.6	sp|Q14680|MELK	MELK KIAA0175	Maternal embryonic leucine zipper kinase (MELK) (EC 2.7.11.1) (Protein kinase Eg3) (p42 kinase) (Protein kinase PK38) (hPK38) (Tyrosine protein kinase MELK) (EC 2.7.10.2)
4.8	2	0.005	12.5	sp|P14174|MIF_H	MIF GLIP MMIF	Macrophage migration inhibitory factor (MIF) (EC 5.3.2.1) (Glycosylation-inhibiting factor) (GIF) (L-dopachrome isomerase) (L-dopachrome tautomerase) (EC 5.3.3.12) (Phenylpyruvate tautomerase)
3.93	2	0.005	29.4	sp|Q96U76|MMTA	MMTAG2 C1orf35	Multiple myeloma tumor-associated protein 2 (MMTAG2)
3.44	2	0.005	45.3	sp|P55265|NPY11_	NAP11 NRP	Nucleosome assembly protein 1-like 1 (NAP-1-related protein) (hNRP)
4.67	2	0.005	15.5	sp|O60363|NDKB_	NME2P1	Putative nucleoside diphosphate kinase (NDK) (NDP kinase) (EC 2.7.4.6)
4.46	2	0.005	28.8	sp|Q9Y266|NUDC_	NUDC	Nuclear migration protein nudC (Nuclear distribution protein C homolog)
4.33	2	0.005	56.7	sp|P30101|PDIA3_	PDIA3 ERP57 ERP60	Protein disulfide-isomerase A3 (EC 5.3.4.1) (58 kDa glucose-regulated protein) (58 kDa microsomal protein) (p58) (Disulfide isomerase ER-60) (Endoplasmic reticulum resident protein 57) (ER protein 5
4.44	2	0.005	28.7	sp|P15259|PGAM2	PGAM2 PGAMM	Phosphoglycerate mutase 2 (EC 5.1.3.15) (EC 5.4.2.1) (EC 5.4.2.4) (BPG-dependent PGAM 2) (Muscle-specific phosphoglycerate mutase) (Phosphoglycerate mutase isozyme M) (PGAM-M)
4.36	2	0.005	44.6	sp|P00558|PGK1_	PGK1 PGKAMG10	Phosphoglycerate kinase 1 (EC 2.7.2.3) (Cell-migration-inducing gene 10 protein) (Primer recognition protein 2) (PRP 2)
3.64	2	0.005	466.8	sp|P78527|PRKDC	PRKDC HYRC1 HYRC	DNA-dependent protein kinase catalytic subunit (DNA-PK catalytic subunit) (DNA-PKcs) (EC 2.7.11.1) (DNPK1) (p460)
4.1	2	0.005	49.2	sp|P17980|PRS6A_	PSMC3 TBP1	26S protease regulatory subunit 6A (26S proteasome AAA-ATPase subunit RPT5) (Proteasome 26S subunit ATPase 3) (Proteasome subunit P50) (Tat-binding protein 1) (TBP-1)
4.16	2	0.005	57.2	sp|P29590|PTBP1_	PTBP1 PTB	Polypyrimidine tract-binding protein 1 (PTB) (57 kDa RNA-binding protein PPTB-1) (Heterogeneous nuclear ribonucleoprotein I) (hnRNP I)
4.72	2	0.005	18.7	sp|O15155|TEBP_	PTGES3 P23 TEBP	Prostaglandin-E synthase 3 (EC 5.3.99.3) (Cytosolic prostaglandin E2 synthase) (cPGES) (HspP0-co-chaperone) (Progesterone receptor-complex p23) (Telomerase-binding protein p23)
4.82	2	0.005	23.3	sp|P43487|RANG_	RANBP1	Ran-specific GTPase-activating protein (Ran-binding protein 1)(RanBP1)
3.5	2	0.005	63.8	sp|Q8WX7|RAVER1	RAVER1 KIAA1978	Ribonucleoprotein PTB-binding 1 (Protein raver 1)
4.33	2	0.005	14.9	sp|P62829|RL23_H	RPL23	60S ribosomal protein L23 (60S ribosomal protein L17)
4.81	2	0.005	16.3	sp|P62263|RS14_H	RPS14 PRO2640	40S ribosomal protein S14
3.76	2	0.005	52.8	sp|P56182|RRP1_	RRP1 D21S2056E N	Ribosomal RNA processing protein 1 homolog A (Novel nuclear protein 1) (NNP-1) (Nucleolar protein Nop52) (RRP1-like protein)
4.67	2	0.005	35.2	sp|Q9Y3I0|RTCB_H	RTCB C22orf24 HSF	tRNA-splicing ligase RtcB homolog (EC 6.5.1.3)
4.7	2	0.005	14.9	sp|O95295|SNAPN	SNAPIN BLOC1S7 S	SNARE-associated protein Snapin (Biogenesis of lysosome-related organelles complex 1 subunit 7) (BLOC-1 subunit 7) (Synaptosomal-associated protein 25-binding protein) (SNAP-associated protein)
3.88	2	0.005	51.5	sp|P08621|RU17_	SNRNP70 RNPU1ZF	U1 small nuclear ribonucleoprotein 70 kDa (U1 snRNP 70 kDa) (U1-70K) (snRNP70)
3.75	2	0.005	102.3	sp|Q8IWX5|SRRM1	SRRM1 SRM160	Serine/arginine repetitive matrix protein 1 (SR-related nuclear matrix protein of 160 kDa) (SRm160) (Sec/Ag-related nuclear matrix protein)
4.28	2	0.005	53.5	sp|Q05519|SRS11	SRSF11 SFRS11	Serine/arginine-rich splicing factor 11 (Arginine-rich 54 kDa nuclear protein) (p54) (Splicing factor, arginine/serine-rich 11)
4.96	2	0.005	19.3	sp|P84103|SRSF3_	SRSF3 SFRS3 SRP20	Serine/arginine-rich splicing factor 3 (Pre-mRNA-splicing factor SRP20) (Splicing factor, arginine/serine-rich 3)
4.71	2	0.005	46.8	sp|P05455|LA_HU	SSB	Lupus La protein (La autoantigen) (La ribonucleoprotein) (Sjogren syndrome type B antigen) (SS-B)
4.58	2	0.005	44.7	sp|Q13148|TADB2	TARDBP TDP43	TAR DNA-binding protein 43 (TDP-43)

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PLCb1-associated proteins in cytosolic fractions of A10 cells at 300 mOsm (basal)

3.77	2	0.005	60.3	sp|P17987|TCPA_	TCP1 CCT1 CCTA	T-complex protein 1 subunit alpha (TCP-1-alpha) (CCT-alpha)
4.59	2	0.005	67.8	sp|P29401|TKT_H	TKT	Transketolase (TK) (EC 2.2.1.1)
4.92	2	0.005	5	sp|P63313|TYB10_	TMSB10 PTMB10 T	Thymosin beta-10
3.59	2	0.005	118.2	sp|O15042|SR140	U2SURP KIAA0332	U2 snRNP-associated SURP motif-containing protein (140 kDa Ser/Arg-rich domain protein) (U2-associated protein SR140)
3.45	2	0.005	117.8	sp|P22314|UBA1_	UBA1 A35PT UBE1	Ubiquitin-like modifier-activating enzyme 1 (EC 6.2.1.45) (Protein A35B) (Ubiquitin-activating enzyme E1)
4.47	2	0.005	31.9	sp|O43709|WBS22	WBSCR22 MERM1	Probable 18S rRNA (guanine-N(7)-methyltransferase (EC 2.1.1.-) (Bud site selection protein 23 homolog) (Metastasis-related methyltransferase 1) (Williams-Beuren syndrome chromosomal region 22
3.45	2	0.005	82.7	sp|P13010|XRCC5	XRCC5 G22P2	X-ray repair cross-complementing protein 5 (EC 3.6.4.-) (86 kDa subunit of Ku antigen) (ATP-dependent DNA helicase 2 subunit 2) (ATP-dependent DNA helicase II 80 kDa subunit) (CTC box-binding fact
3.85	2	0.005	28.1	sp|P31946|1433B_	YWHAB	14-3-3 protein beta/alpha (Protein 1054) (Protein kinase C inhibitor protein 1) (KCIP-1) [Cleaved into: 14-3-3 protein beta/alpha, N-terminally processed]
3.77	2	0.005	23.3	tr|A0A0C4DFV2|A	#N/A	#N/A
4.03	1	0.003	47.7	sp|P23526|SAHH_	AHCY SAHH	Adenosylhomocysteinase (AdoHcyase) (EC 3.3.1.1) (S-adenosyl-L-homocysteine hydrolase)
6.81	1	0.003	27.5	tr|E9PB61|E9PB61	ALYREF	THO complex subunit 4
3.54	1	0.003	274.1	sp|O75179|ANR17	ANKRD17 GTAR KIA	Ankyrin repeat domain-containing protein 17 (Gene trap ankyrin repeat protein) (Serologically defined breast cancer antigen NY-BR-16)
3.7	1	0.003	38.7	sp|P04083|ANXA1	ANXA1 ANX1 LPC1	Annexin A1 (Annexin I) (Annexin-1) (Calpactin I) (Calpactin-2) (Chromobindin-9) (Lipocortin I) (Phospholipase A2 inhibitory protein) (p35)
4.04	1	0.003	10.1	sp|O75531|BAF_H	BANF1 BAF BCRG1	Barrier-to-autointegration factor (Breakpoint cluster region protein 1) [Cleaved into: Barrier-to-autointegration factor, N-terminally processed]
4.27	1	0.003	106.1	sp|Q96P FB|C1F1	BCLAF1 BTF KIAA03	Bcl-2-associated transcription factor 1 (Btf)
4.37	1	0.003	37.1	sp|O43684|BUB3_	BUB3	Mitotic checkpoint protein BUB3
3.99	1	0.003	260.2	sp|Q4ACH4|CZCD3	CZCD3	C2 domain-containing protein 3
4.01	1	0.003	60.5	sp|P49368|TCPG_	CCT3 CCTG TRIC5	T-complex protein 1 subunit gamma (TCP-1-gamma) (CCT-gamma)(hTRIC5)
3.41	1	0.003	59.6	sp|P48643|TCPE_H	CCT5 CCTE KIAA009	T-complex protein 1 subunit epsilon (TCP-1-epsilon)(CCT-epsilon)
3.49	1	0.003	59.3	sp|Q99832|TCPH_	CCT7 CCTH NIP7-1	T-complex protein 1 subunit eta (TCP-1-eta) (CCT-eta) (NIV-1 Nef-interacting protein) [Cleaved into: T-complex protein 1 subunit eta, N-terminally processed]
3.97	1	0.003	59.6	sp|P50990|TCPQ_	CCT8 C21orf112 CC	T-complex protein 1 subunit theta (CCT-theta) (Renal carcinoma antigen NY-REN-15)
3.81	1	0.003	44.4	sp|Q16543|CDC37	CDC37 CDC37A	Hsp90 co-chaperone Cdc37 (Hsp90 chaperone protein kinase-targeting subunit) (p50Cdc37) [Cleaved into: Hsp90 co-chaperone Cdc37, N-terminally processed]
3.38	1	0.003	21.2	sp|P60953|CDC42	CDC42	Cell division control protein 42 homolog (G25K GTP-binding protein)
3.28	1	0.003	12.4	sp|O14519|CDK4L	CDK2APT1 CDK4PT-D	Cyclin-dependent kinase 2-associated protein 1 (CDK2-associated protein 1) (Deleted in oral cancer 1) (DOC-1) (Putative oral cancer suppressor)
4.57	1	0.003	12.5	sp|Q7Z7K0|COIMI	CMC1 C3orf58	COX assembly mitochondrial protein homolog (Cmc1p)
4.05	1	0.003	104.3	sp|Q96RU3|CNNM	CNNM1 ACDP1	Metal transporter CNNM1 (Ancient conserved domain protein 1) (Cyclin-M1)
3.83	1	0.003	20.2	sp|P61923|COPZ1	COPZ1 COPZ CGI-12	Coatomer subunit zeta-1 (Zeta-1-coat protein) (Zeta-1-COP)
3.36	1	0.003	59.2	sp|Q16630|CPSF6	CPSF6 CFIM68	Cleavage and polyadenylation specificity factor subunit 6 (Cleavage and polyadenylation specificity factor 68 kDa subunit) (CFIm68) (CPSF 68 kDa subunit) (Pre-mRNA cleavage factor Im 68 kDa subuni
3.87	1	0.003	60.9	sp|P33240|CSTF2_	CSTF2	Cleavage stimulation factor subunit 2 (CF-1 64 kDa subunit) (Cleavage stimulation factor 64 kDa subunit) (CSTF 64 kDa subunit) (Cstf-64)
3.31	1	0.003	140.9	sp|Q08211|DHX9_	DHX9 DDX9 LKP ND	ATP-dependent RNA helicase A (RNA) (EC 3.6.4.13) (DEAH box protein 9) (Leukophysin) (LKP) (Nuclear DNA-helicase II) (NDH II)
3.02	1	0.003	331.6	sp|P15924|DESP_H	DSP	Desmoplakin (DP) (250/230 kDa paraneoplastic pemphigus antigen)
3.95	1	0.003	63.9	sp|O15371|EIF3D_	EIF3D EIF3S7	Eukaryotic translation initiation factor 3 subunit D (eIF3d) (Eukaryotic translation initiation factor 3 subunit 7) (eIF-3 zeta) (eIF3 p66)
4.57	1	0.003	42.6	sp|P39748|FEN1_	FEN1 RAD2	Flap endonuclease 1 (FEN-1) (EC 3.1.-.-) ((Rnase IV) (Flap structure-specific endonuclease 1) (Maturation factor 1) (MF1) (hFEN-1)
4.43	1	0.003	36.2	sp|Q13642|FHL1_	FHL1 SLIM1	Four and a half LIM domains protein 1 (FHL-1) (Skeletal muscle LIM-protein 1) (SLIM) (SLIM-1)
3.41	1	0.003	143.1	sp|O14976|GAK_H	GAK	Cyclin-G-associated kinase (EC 2.7.11.1)
4.24	1	0.003	44.5	sp|P43694|GATA4	GATA4	Transcription factor GATA-4 (GATA-binding factor 4)
2.76	1	0.003	20.8	sp|Q04760|GLO1_	GLO1	Lactoylglutathione lyase (EC 4.4.1.5) (Aldoketomutase) (Glyoxalase I) (Glx I) (Ketone-aldehyde mutase) (Methylglyoxalase) (S-D-lactoylglutathione methylglyoxal lyase)
3.6	1	0.003	103.3	sp|Q98R98|GPTC5	GPATCH1 ECGP GPA	G patch domain-containing protein 1 (Evolutionarily conserved G-patch domain-containing protein)
4.96	1	0.003	15.2	sp|P69905|HBA_H	HBA1; HBA2	Hemoglobin subunit alpha (Alpha-globin) (Hemoglobin alpha-chain)
3.04	1	0.003	55.3	sp|Q92769|HDAC2	HDAC2	Histone deacetylase 2 (HD2) (EC 3.5.1.98)
5.19	1	0.003	21.9	sp|P16402|H14_H	HIST1H1E HIF4	Histone H1.4 (Histone H1b) (HistoneH1s-4)
4.33	1	0.003	9.4	sp|P05204|HMGN	HMGN2 HMG17	Non-histone chromosomal protein HMG-17 (High mobility group nucleosome-binding domain-containing protein 2)
3.64	1	0.003	28	sp|P17482|HXB9_	HOXB9 HOX2E	Homeobox protein Hox-B9 (Homeobox protein Hox-2.5) (Homeobox protein Hox-2E)
4.56	1	0.003	10.9	sp|P61604|CH10_	HSPE1	10 kDa heat shock protein, mitochondrial (Hsp10) (10 kDa chaperonin) (Chaperonin 10) (CPN10) (Early-pregnancy factor) (EPF)
3.79	1	0.003	63.4	sp|Q9NZI8|IF2B1_	IGF2BP1 CRDBP VIC	Insulin-like growth factor 2 mRNA-binding protein 1 (IGF2 mRNA-binding protein 1) (IMP-1) (IMP1) (Coding region determinant-binding protein) (CRD-BP) (IGF-II mRNA-binding protein 1) (VICKZ family
3.92	1	0.003	48.2	sp|Q07666|KHDR1	KHDRBS1 SAM68	KH domain-containing, RNA-binding, signal transduction-associated protein 1 (GAP-associated tyrosine phosphoprotein p62) (Src-associated in mitosis 68 kDa protein) (Sam68) (p21 Ras GTPase-activa
3.26	1	0.003	119.1	sp|P52732|KIF11_	KIF11 EG5 KNSL1 TR	Kinesin-like protein KIF11 (Kinesin-like protein 1) (Kinesin-like spindle protein HKSP) (Kinesin-related motor protein Eg5) (Thyroid receptor-interacting protein 5) (TR-interacting protein 5) (TRIP-5)
3.93	1	0.003	204.3	sp|O60133|KIF1B_	KIF1B KIAA0591 KIA	Kinesin-like protein KIF1B (Mp)
5.03	1	0.003	57.8	sp|Q5MJ5|K2C79	KRT79 KIL KB38 KR	Keratin, type II cytoskeletal 79 (Cytokeratin-79) (CK-79) (Keratin-6-like) (Keratin-6L) (Keratin-79) (K79) (Type-II keratin Kb38)
4.2	1	0.003	36.7	sp|P00338|LDHA_	LDHA PIG19	L-lactate dehydrogenase A chain (LDH-A) (EC 1.1.1.27) (Cell proliferation-inducing gene 19 protein) (LDH muscle subunit) (LDH-M) (Renal carcinoma antigen NY-REN-59)
3.79	1	0.003	63.4	sp|Q8N1G4|LRC47	LRRC47 KIAA1185	Leucine-rich repeat-containing protein 47
3.52	1	0.003	9.9	sp|Q9Y4Y9|LSM5_	LSM5	U6 snRNA-associated Sm-like protein LSm5
3.69	1	0.003	84	sp|Q14244|MAP7_	MAP7	Ensconsin (Epithelial microtubule-associated protein of 115 kDa) (E-MAP-115) (Microtubule-associated protein 7) (MAP-7)
3.45	1	0.003	31.5	sp|P29966|MARCS	MARCKS MACS PRK	Myristoylated alanine-rich C kinase substrate (MARCKS) (Protein kinase C substrate, 80 kDa protein, light chain) (80K-L protein) (PKCSL)
3.67	1	0.003	32.8	sp|O95983|MBD3	MBD3	Methyl-CpG-binding domain protein 3 (Methyl-CpG-binding protein MBD3)
3	1	0.003	61.3	sp|Q96HC0|MCCB	MCCC2 MCCB	Methylcrotonyl-CoA carboxylase beta chain, mitochondrial (MCCase subunit beta) (EC 6.4.1.4) (3-methylcrotonyl-CoA carboxylase 2) (3-methylcrotonyl-CoA carboxylase non-biotin-containing subun
4.39	1	0.003	12	sp|Q99417|MYCBP	MYCBP AMY1	C-Myc-binding protein (Associate of Myc 1)(AMY-1)
3.81	1	0.003	46.7	sp|Q96P51|NSUN5	NSUN5 NSUN5A W	Probable 28S rRNA (cytosine-C(5)-methyltransferase (EC 2.1.1.-) (NOL1-related protein) (NOL1R) (NOL1/NOP2/Sun domain family member 5) (Williams-Beuren syndrome chromosomal region 20Ap
3.44	1	0.003	44.7	sp|Q96N76|OLA1_	OLA1 OTRBP9 PRO2	Obg-like ATPase 1 (DNA damage-regulated overexpressed in cancer 45) (DOC45) (GTP-binding protein 9)
3.73	1	0.003	16.4	tr|A8MWV3|A8M	OSCAR	Osteoclast-associated immunoglobulin-like receptor
4.05	1	0.003	70.6	sp|P11940|PABP1	PABPC1 PABP1 PABP	Polyadenylate-binding protein 1 (PABP-1) (Poly(A)-binding protein 1)
4.51	1	0.003	24.6	sp|P22061|PMT_	PCMT1	Protein-L-isoaspartate(D-aspartate) O-methyltransferase (PIMT) (EC 2.1.1.77) (L-isoaspartyl protein carboxyl methyltransferase) (Protein L-isoaspartyl/D-aspartyl methyltransferase) (Protein-beta-asp
4.14	1	0.003	14.3	sp|O14737|PDCD5	PDCD5 TFAR19	Programmed cell death protein 5 (TF-1 cell apoptosis-related protein 19) (Protein TFAR19)
3.66	1	0.003	48.1	sp|Q15084|PDIA6_	PDIA6 ERP5 P5 TXN	Protein disulfide-isomerase A6 (EC 5.3.4.1) (Endoplasmic reticulum protein 5) (ER protein 5) (ERp5) (Protein disulfide isomerase P5) (Thioredoxin domain-containing protein 7)
4.48	1	0.003	16.6	sp|Q9UHV9|PFD2_	PFDN2 PFD2 HSPC2	Prefoldin subunit 2
3.79	1	0.003	68.2	sp|P53350|PLK1_H	PLK1 PLK	Serine/threonine-protein kinase PLK1 (EC 2.7.11.21) (Polo-like kinase 1) (PLK-1) (Serine/threonine-protein kinase 13) (STPK13)
3.77	1	0.003	37	sp|P36873|PP1G_	PPP1CC	Serine/threonine-protein phosphatase PP1 gamma catalytic subunit (PP-1G) (EC 3.1.3.16) (Protein phosphatase 1C catalytic subunit)
3.5	1	0.003	65.3	sp|P30153|2AAA_	PPP2R1A	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform (Medium tumor antigen-associated 61 kDa protein) (PP2A subunit A isoform PR65-alpha) (PP2A subunit A isoform
3.13	1	0.003	37.6	sp|P54619|AAKG1	PRKAG1	5'-AMP-activated protein kinase subunit gamma-1 (AMPK gamma1) (AMPK subunit gamma-1) (AMPKg)
3.83	1	0.003	11.5	sp|P20962|PTMS_	PTMS	Parathymosin
4.06	1	0.003	21.1	sp|P00883|NARR_	RAB34 NARR	Ras-related protein Rab-34, isoform NARR (Nine amino-acid-residue-repeats)
4.26	1	0.003	23.5	sp|P51149|RAB7A	RAB7A RAB7	Ras-related protein Rab-7a
3.62	1	0.003	100.1	sp|P49756|RBM25	RBM25 RNPC7	RNA-binding protein 25 (Arg/Glu/Asp-rich protein of 120 kDa) (RED120) (Protein S164) (RNA-binding motif protein 25) (RNA-binding region-containing protein 7)
3.62	1	0.003	118.6	sp|Q9P2N5|RBM2	RBM27 KIAA1311	RNA-binding protein 27 (RNA-binding motif protein 27)
4.3	1	0.003	42.3	sp|P38159|RBMX_	RBMX HNRNPG RBM	RNA-binding motif protein, X chromosome (Glycoprotein p43) (Heterogeneous nuclear ribonucleoprotein G) (hnRNP G) [Cleaved into: RNA-binding motif protein, X chromosome, N-terminally process
4.01	1	0.003	34.2	sp|Q15287|RNP51	RNPS1 LDC2	RNA-binding protein with serine-rich domain 1 (SR-related protein LDC2)
4.21	1	0.003	12.8	sp|P62888|RL30_H	RPL30	60S ribosomal protein L30
3.76	1	0.003	11.7	sp|P35900|S100A	S100A11 MLN70 S1	Protein S100-A11 (Calgizzarin) (Metastatic lymph node gene 70 protein) (MLN 70) (Protein S100-C) (S100 calcium-binding protein A11) [Cleaved into: Protein S100-A11, N-terminally processed]
4.51	1	0.003	10.8	sp|P05109|S100A8	S100A8 CAGA CFAG	Protein S100-A8 (Calgranulin-A) (Calprotectin L1L subunit) (Cystic fibrosis antigen) (CFAG) (Leukocyte L1 complex light chain) (Migration inhibitory factor-related protein 8) (MRP-8) (p8) (S100 calcium-
4.65	1	0.003	22.4	sp|Q9NR31|SAR1A	SAR1A SAR1 SARA1	GTP-binding protein SAR1a (COPII-associated small GTPase)
3.99	1	0.003	23.7	sp|P82979|SARNP	SARNP HCC1 HSPC1	SAP domain-containing ribonucleoprotein (Cytokine-induced protein of 29 kDa) (Nuclear protein Hcc-1) (Proliferation-associated cytokine-inducible protein CIP29)
4.09	1	0.003	88.8	sp|Q15459|SF3A1	SF3A1 SAP114	Splicing factor 3A subunit 1 (SF3a120) (Spliceosome-associated protein 114) (SAP 114)
4.37	1	0.003	44.4	sp|Q15427|SF3B4	SF3B4 SAP49	Splicing factor 3B subunit 4 (Pre-mRNA-splicing factor SF3b 49 kDa subunit) (SF3b50) (Spliceosome-associated protein 49) (SAP 49)
3.74	1	0.003	14.6	sp|Q9Y384|SF3B6	SF3B6 SAP14 SF3B1	Splicing factor 3B subunit 6 (Pre-mRNA branch site protein p14) (SF3b 14 kDa subunit) (SF3B14a) (Spliceosome-associated protein, 14-kDa) (Splicing factor 3b, subunit 6, 14kDa)
3.99	1	0.003	66.1	sp|Q8WWI1|SLC13A3	NAS1 NAS SLC13A3	Solute carrier family 13 member 1 (Renal sodium/sulfate cotransporter) (Na(+)/sulfate cotransporter) (hNaSi-1)
4.5	1	0.003	13.3	sp|P62314|SMD1_	SNRPD1	Small nuclear ribonucleoprotein Sm D1 (Sm-D1) (Sm-D autoantigen) (snRNP core protein D1)
3.37	1	0.003	17.2	sp|Q04837|SSBP_	SSBP1 SSBP	Single-stranded DNA-binding protein, mitochondrial (Mt-SSB) (MtSSB) (PWP5 interacting protein 17)
4.69	1	0.003	17.3	sp|P16949|STMN1	STMN1 C1orf215 LA	Stathmin (Leukemia-associated phosphoprotein p18) (Metablastin) (Oncoprotein 18) (Op18) (Phosphoprotein p19) (pp19) (Prosolin) (Protein Pr22) (pp17)
3.91	1	0.003	69.6	sp|O60506|HNRPQ	SYNCRIP HNRPQ NS	Heterogeneous nuclear ribonucleoprotein Q (hnRNP Q) (Glycine- and tyrosine-rich RNA-binding protein) (GRY-RBP) (NS1-associated protein 1) (Synaptotagmin-binding, cytoplasmic RNA-interacting pr
5.39	1	0.003	61.8	sp|Q92804|RBP56	TAF15 RBP56 TAF2	TATA-binding protein-associated factor 2N (68 kDa TATA-binding protein-associated factor) (TAF|II68) (TAF|II68) (RNA-binding protein 56)
3.53	1	0.003	29.1	sp|Q00059|TFAM_	TFAM TCF6 TCF6L2	Transcription factor A, mitochondrial (mtTFA) (Mitochondrial transcription factor 1) (MTF1) (Transcription factor 6) (TCF-6) (Transcription factor 6-like 2)
4.02	1	0.003	30.3	sp|Q9H0E2|TOLIP_	TOLLIP	Toll-interacting protein
4.08	1	0.003	34.5	sp|Q15785|TOM3	TOMM34 URCC3	Mitochondrial import receptor subunit TOM34 (hTom34) (Translocase of outer membrane 34 kDa subunit)
4.27	1	0.003	22.2	sp|O43399|TPD54	TPD52L2	Tumor protein D54 (hD54) (Tumor protein D52-like 2)
5.73	1	0.003	50.1	sp|Q71U36|TBA1A	TUBA1A TUBA3	Tubulin alpha-1A chain (Alpha-tubulin 3)(Tubulin B-alpha-1) (Tubulin alpha-3 chain)
3.67	1	0.003	49.5	sp|P49411|EFTU_M	TUFM	Elongation factor Tu, mitochondrial (EF-Tu)(P43)
4.56	1	0.003	57.7	sp|Q9BZI7|RENI3B_	UPF3B RENT3B UPF	Regulator of nonsense transcripts 3B (Nonsense mRNA reducing factor 3B) (Up-frameshift suppressor 3 homolog B) (hUpf3B) (Up-frameshift suppressor 3 homolog on chromosome X) (hUpf3p-X)
3.29	1	0.003	123.7	sp|P18206|VINC_H	VCL	Vinculin (Metavinculin) (MV)
4.37	1	0.003	70.7	sp|Q9BTA9|WAC_	WAC KIAA1844	WW domain-containing adapter protein with coiled-coil
4.52	1	0.003	62.3	sp|Q9Y5A9|YTHD2	YTHDF2 HGRG8	YTH domain-containing family protein 2 (CLL-associated antigen KW-14) (High-glucose-regulated protein 8) (Renal carcinoma antigen NY-REN-2)
4.48	1	0.003	27.7	sp|P63104|1433Z_	YWHAZ	14-3-3 protein zeta/delta (Protein kinase C inhibitor protein 1)(KCIP-1)
3.23	1	0.003	57.3	sp|Q8N5A5|ZGPAT	ZGPAT GPATC6 GPA	Zinc finger CCCH-type with G patch domain-containing protein (G patch domain-containing protein 6) (Zinc finger CCCH domain-containing protein 9) (Zinc finger and G patch domain-containing protei
3.28	1	0.003	98.6	sp|Q86UK7|ZN598	ZNF598	Zinc finger protein 598
4	1	0.003	37.4	sp|O95218|ZRAB2	ZRANB2 ZIS ZNF265	Zinc finger Ran-binding domain-containing protein 2 (Zinc finger protein 265) (Zinc finger, splicing)
4.03	1	0.003	46.1	anti_trypsin_bovine	#N/A	#N/A
4.37	1	0.003	25.4	SW_TRY1_BOVIN	#N/A	#N/A

5

PLCb1-associated proteins in cytosolic fractions of A10 cells at 150 mOsm (osmotic stress)

log(2)	total	%ID/PCI(K)	Mr	Accession	gene	Description
8.08	58	0.240	16.8	sp|P62158|CALM	CALM1 CALM CALM CALM	Calmodulin (CaM)
5.68	30	0.127	112.3	sp|P78347|GTF2I	GTF2I BAP135 W	General transcription factor II-I (GTF-II) (TFII-I) (Bruton tyrosine kinase-associated protein 135) (BAP-135) (BTK-associated protein-135) (DRF-PHoS-interacting protein) (SPIN) (Williams-Beuren syndrome chromosomal region 6 protein)
5.02	27	0.114	285.4	sp|Q13085|ACAC	ACACA ACAC ACC	Acetyl-CoA carboxylase 1 (ACC1) (EC 6.4.1.2) (ACC-alpha) (Includes: Biotin carboxylase (EC 6.3.4.14))
5.10	18	0.076	36	sp|P04406|G3P_HUMAN	GAPDH GAPD GC	Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (EC 1.2.1.12) (Peptidyl-cysteine S-nitrosylase GAPDH) (EC 2.6.99.-)
5.29	13	0.055	50.1	sp|P68104|EF1A1	EEF1A1 EEF1A EF	Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongation factor Tu) (EF-Tu) (Leukocyte receptor cluster member 7)
4.75	11	0.047	61.0	sp|Q96CG3|MCCB	MCCB	Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial (MCCase subunit beta) (EC 6.4.1.4) (3-methylcrotonyl-CoA carboxylase 2) (3-methylcrotonyl-CoA carboxylase non-biotin-containing subunit) (3-methylcrotonyl-CoA:carbon dioxide ligase subunit beta)
5.02	11	0.047	50.1	sp|Q71U36|TBA1	TUBA1A TUBA4	Tubulin alpha-1A chain (Alpha-tubulin 3) (Tubulin B-alpha-1) (Tubulin alpha-4 chain)
4.76	10	0.042	84.0	sp|P07900|HS90A	HSP90AA1 HSPC0	Heat shock protein HSP 90-alpha (Heat shock 86 kDa) (HSP 86) (HSP86) (Lymphocyte/myeloblastic antigen) (LMW-2) (LYS-associated protein 2) (Renal carcinoma antigen NY-REN-38)
4.76	10	0.042	76.1	sp|P19338|NUCL	NCL	Nucleolin (Protein C23) (Nucleolin 100 kDa) (Nucleolin 76 kDa) (Nucleolin 110 kDa) (Nucleolin 77 kDa) (Nucleolin 105 kDa) (Nucleolin 96 kDa) (Nucleolin 92 kDa) (Nucleolin 82 kDa) (Nucleolin 38 kDa) (Nucleolin 34 kDa) (Nucleolin 30 kDa) (Nucleolin 22 kDa) (Nucleolin 19 kDa) (Nucleolin 16 kDa) (Nucleolin 14 kDa) (Nucleolin 12 kDa) (Nucleolin 10 kDa) (Nucleolin 8 kDa) (Nucleolin 6 kDa) (Nucleolin 4 kDa) (Nucleolin 2 kDa) (Nucleolin 1 kDa) (Nucleolin 0.5 kDa) (Nucleolin 0.3 kDa) (Nucleolin 0.2 kDa) (Nucleolin 0.1 kDa) (Nucleolin 0.05 kDa) (Nucleolin 0.03 kDa) (Nucleolin 0.02 kDa) (Nucleolin 0.01 kDa) (Nucleolin 0.005 kDa) (Nucleolin 0.003 kDa) (Nucleolin 0.002 kDa) (Nucleolin 0.001 kDa) (Nucleolin 0.0005 kDa) (Nucleolin 0.0003 kDa) (Nucleolin 0.0002 kDa) (Nucleolin 0.0001 kDa) (Nucleolin 0.00005 kDa) (Nucleolin 0.00003 kDa) (Nucleolin 0.00002 kDa) (Nucleolin 0.00001 kDa) (Nucleolin 0.000005 kDa) (Nucleolin 0.000003 kDa) (Nucleolin 0.000002 kDa) 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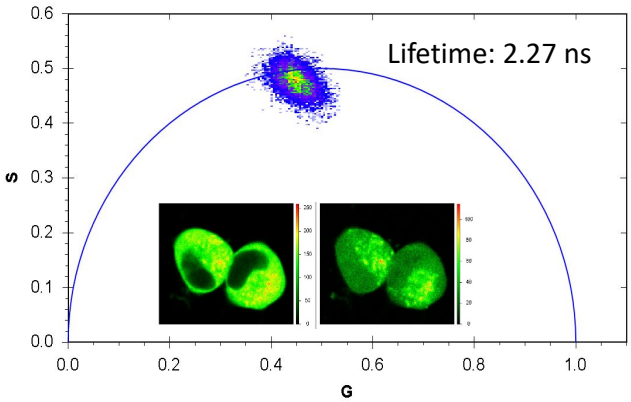
6

FLIM/FRET studies of eGFP-Ago2 and mCherry-C3PO(TRAX)

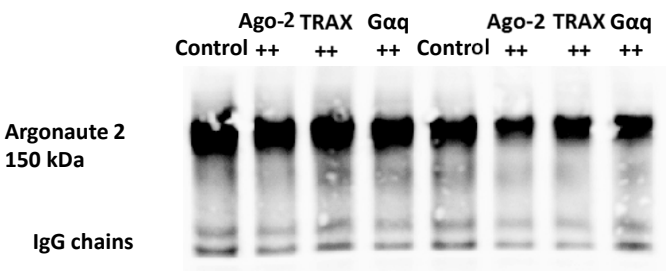


FLIM eGFP-Ago2 + mcherry-C3PO(TRAX) showing that that these proteins do not associate. Example of phasor plots in which PC12 cells were transfected with eGFP-Ago2 and mCherry-TRAX where the raw lifetimes are plotted as S versus G (see text). Each point in the phasor plots corresponds to the lifetime from the eGFP-Ago2 emission seen in each pixel from the corresponding cell image shown in the graph. No FRET was detected.

7A

Co-IP Argonaute 2 and PLCβ1

Full blot



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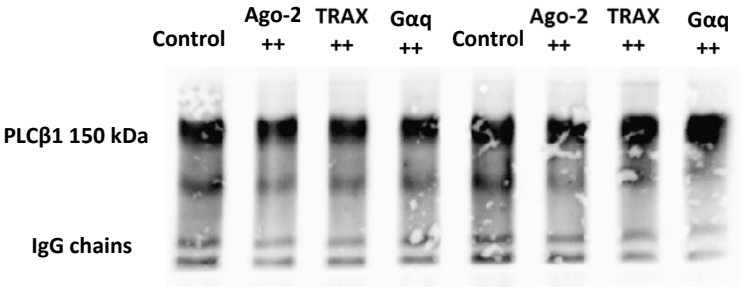
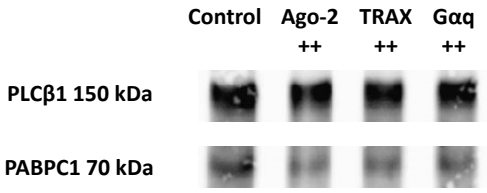


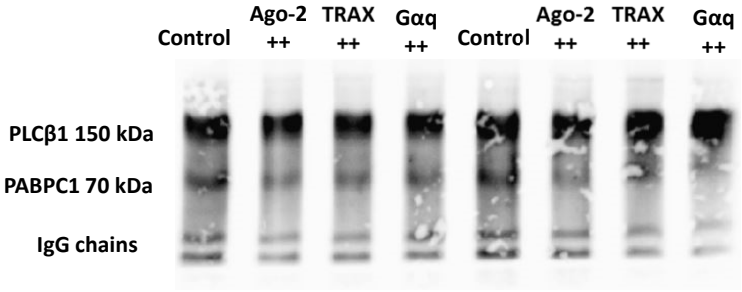
Co-immunoprecipitation (CoIP) of PLCβ1 and Argonaute 2, from lysate of transfected PC12 cells with Argonaute 2, TRAX or Gαq as shown above. Antibodies used for Co-IP and western blots are indicated in the text.

7B

CO-IP PLCβ1 and PABPC1

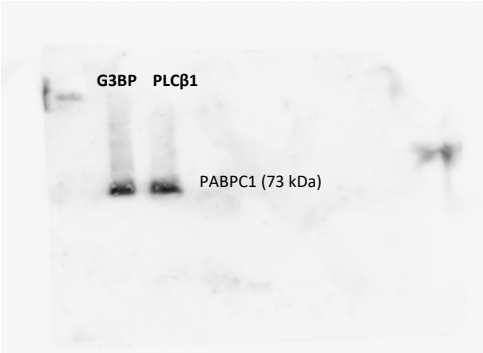


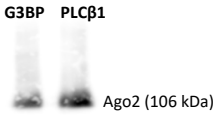
Full blot

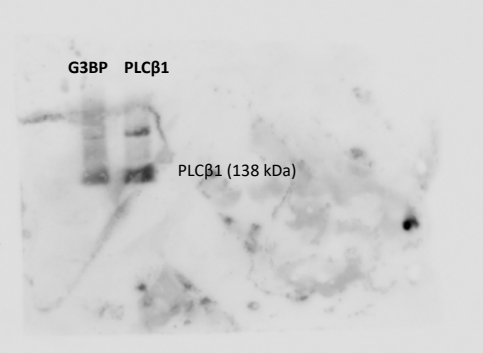


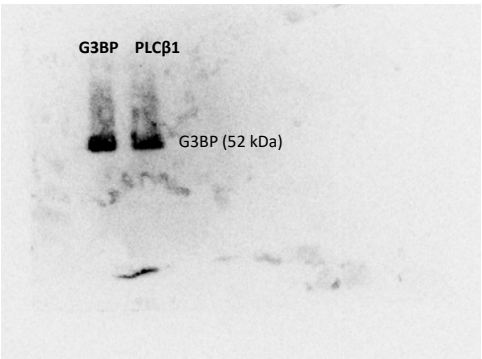
Co-immunoprecipitation (CoIP) of PLCβ1 and PABPC1, from lysate of transfected PC12 cells with Argonaute 2, TRAX or Gαq as shown above. Antibodies used for Co-IP and western blots are indicated in the text.

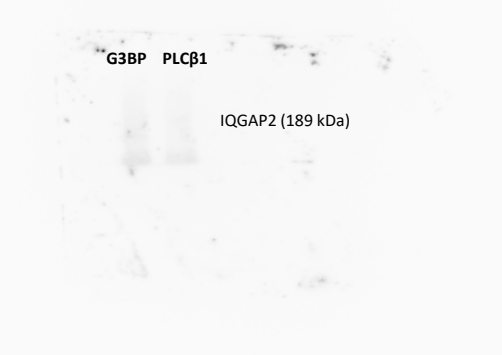
8











Co-immunoprecipitation (CoIP) of GFP from lysate of transfected PC12 cells with eGFP-PLCb1 or eGFP-G3BP as shown above. Antibodies used for Co-IP and western blots are indicated in the text.