1	Astrocytes close the critical period for visual plasticity
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## 37 Summary paragraph

Brain postnatal development is characterized by critical periods of experience-dependent 38 remodeling<sup>1,2</sup>. Termination of these periods of intense plasticity is associated with settling of 39 neuronal circuits, allowing for efficient information processing<sup>3</sup>. Failure to end critical periods 40 thus results in neurodevelopmental disorders<sup>4,5</sup>. Yet, the cellular processes defining the timing 41 of these developmental periods remain unclear. Here we show in the mouse visual cortex that 42 43 astrocytes control the closure of the critical period. We uncover a novel underlying pathway involving regulation of the extracellular matrix that allows interneurons maturation via an 44 unconventional astroglial connexin signaling. We find that timing of the critical period 45 closure is controlled by a marked developmental upregulation of the astroglial protein 46 connexin 30 that inhibits expression of the matrix degrading enzyme MMP9 through the 47 RhoA-GTPase signaling pathway. Our results thus demonstrate that astrocytes not only 48 influence activity and plasticity of single synapses, but are also key elements in the 49 experience-dependent wiring of brain developing circuits. This work, by revealing that 50 51 astrocytes promote the maturation of inhibitory circuits, hence provide a new cellular target to alleviate malfunctions associated to impaired closure of critical periods. 52

#### 54 Main text

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During the first weeks of life, massive synaptogenesis occurs and is followed by shaping of 55 synaptic circuits<sup>6</sup>. In the last decades, the role of astroglial processes as structural and 56 57 signaling partners of individual synapses has been established and their implication in neuronal network activities and cognitive functions has recently been unveiled<sup>7</sup>. Yet, whether 58 they take part in the wiring of the neuronal circuitry that occurs during critical periods of 59 postnatal development remains unknown. The visual cortex is a hallmark brain region of 60 experience-dependent shaping of synaptic circuits during a period of enhanced plasticity that 61 follows eyes opening<sup>2,8</sup>. Intriguingly, one pioneer study published 30 years ago showed that 62 introducing immature astrocytes in adult cats re-opens a period of high plasticity, reminiscent 63 of the critical period<sup>9</sup>. However, since then, whether and how maturation of astrocytes 64 actually take part in the control of the critical periods closure has never been investigated. 65

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## 67 Immature astrocytes favor plasticity

We first investigated the ability of immature astrocytes to promote visual cortex plasticity in 68 adult mice. To this end, we cultured and labeled (lentivirus PGK-GFP) immature astrocytes 69 from the cortex of P1-P3 (postnatal day 1-3) mice, and implanted them ten days later in the 70 primary visual cortex (V1) of adult mice (P100), in which the critical period is closed (Fig. 71 1a). Two weeks after the graft, we tested mice for ocular dominance (OD) plasticity, a form of 72 plasticity typical of the critical period where changes in visual inputs alter the natural 73 dominance of the contralateral eve. To do so, we assessed visual cortex activity using optical 74 imaging of intrinsic signals after four days of monocular deprivation (MD) (Fig. 1a). We 75 found that mice engrafted with immature astrocytes displayed a high level of plasticity, unlike 76 control mice subjected to MD with injection of culture medium or non-injected mice (Fig. 1b-77 c). These data indicate that immature astrocytes re-open OD plasticity in adult mice. 78

79 To identify how immature astrocytes favor OD plasticity, we then investigated the molecular 80 determinants of astroglial maturation. Comparing gene expression of immature (P7) *vs* mature

(P30) astrocytes using the transcriptome database for astrocytes during development<sup>10</sup> 81 revealed about 200 genes that were differentially expressed with a fold-change over 5 82 (Extended data Table 1). Gene Ontology analysis of enriched astroglial gene groups identified 83 a functional switch during maturation from cell division to cell communication, with the cell 84 junction genes being the most represented (Extended Table 2 and Fig. 1). Among these genes, 85 Gib6, encoding the astroglial gap-junction channel subunit connexin 30 (Cx30), displayed one 86 of the highest increase in expression (Fold-change=9, P=0.0274; Extended Data Table 1). 87 Accordingly, we recently found that Cx30 regulates the structural maturation of hippocampal 88 astrocytes during postnatal development<sup>11</sup>. Together, these data incited us to investigate the 89 role of Cx30 in the astroglial control of the critical period. To do so, we first assessed the 90 91 regional and temporal expression of Cx30 in the mouse V1. We found by immunohistochemistry that Cx30 is enriched in layer 4, the main V1 input layer, identified by 92 Wisteria Floribunda Agglutinin (WFA), a marker of perineuronal nets important for the 93 timecourse of the critical period<sup>12</sup>. This enrichment correlates with a high density of 94 95 astrocytes labeled in the Aldh111-gfp mice (Fig. 1d). Moreover, Cx30 protein levels increased from P10 to P50, as shown by western blot (Fig. 1e), reaching its maximum when the critical 96 period ends, thus suggesting that it may contribute to its closure. If so, re-opening a phase of 97 high plasticity should be associated with a downregulation of Cx30. As a period of dark 98 exposure (DE) can reinstate visual cortex plasticity during adulthood after closure of the 99 critical period<sup>13,14</sup>, we placed wild-type adult mice (P50) in the dark for 4 days and quantified 100 V1 Cx30 levels. We found that this manipulation drastically reduced Cx30 protein levels (~-101 70%) (Fig. 1f). Remarkably, we also found that the same DE for 4 days induced by itself V1 102 plasticity, as indicated by the change in OD index, which suggests that astroglial Cx30 is a 103 brake to plasticity (Fig. 1g-h). 104

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## 106 Astroglial Cx30 closes the critical period

107 We then directly investigated whether Cx30 inhibits OD plasticity. To do so, we first generated an astroglial knockdown mouse line for Cx30 (KD), where Cx30 expression is 108 decreased in V1 astrocytes by ~70% (Extended data Fig. 2). In these mice, electroretinograms 109 110 were unaltered, suggesting normal retinal functions (Extended Fig. 3). We found that OD plasticity peaked at P28 in wild-type (WT) mice. In contrast, this plasticity continued to 111 increase in KD mice until P50, indicating an impairment in the closure of the critical period 112 (Fig. 2a, b). While in WT mice this plasticity was due to an increase in the open eye response, 113 in KD mice, it resulted from a reduction of the closed eye response, which typically reflects 114 changes occurring in mature and immature system, respectively<sup>15</sup>. These data thus indicate 115 that Cx30 is required for proper maturation of the visual cortex. 116

To further directly test that the expression of Cx30 in mature astrocytes inhibits OD plasticity, we engrafted mature astrocytes expressing or not Cx30, isolated from P19 wild type or constitutive Cx30 knockout mice, respectively (Fig. 2d, e). By doing so, we found that only the graft of mature astrocytes lacking Cx30 re-opened OD plasticity in adult mice (Fig. 2f). Altogether, these data indicate that astroglial Cx30 controls the timing of the critical period closure.

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## 125 Astroglial Cx30 promotes the maturation of inhibitory circuits

The temporal course of visual cortex critical period is determined by the maturation of local 126 inhibitory circuits controlling the excitation-inhibition (E-I) balance<sup>16-18</sup>. To get insights on 127 the physiological processes via which Cx30 closes the critical period, we thus measured 128 changes in excitatory and inhibitory synaptic transmission following MD in pyramidal 129 neurons from layer 4 visual cortex of WT and KD adult mice (P50) (Fig. 3a). The frequency, 130 131 but not the amplitude, of both spontaneous excitatory and inhibitory postsynaptic currents (sEPSCs and sIPSCs) were markedly reduced in KD mice compared to WT (Fig. 3b-c). In 132 addition, MD induced an increase in the frequency of sEPSC and sIPSCs in KD mice while it 133 had no effect in WT, indicating that experience-dependent plasticity of both excitatory and 134 inhibitory synapses occurs in adult KD, but not in WT mice. As excitation and inhibition 135 influence each other through homeostatic processes<sup>19</sup>, we then assessed whether the E-I 136 balance was affected by analyzing the dynamic conductances of evoked composite synaptic 137 responses. We found the inhibition/excitation ratio to be reduced in KD mice (Fig. 3d-e), thus 138 139 indicating functionally that inhibition is primarily affected by Cx30 downregulation. Further, as found for the sEPSC/sIPSC data, I-E ratio increased when plasticity was induced through 140 MD. Together, these data suggest that experience-dependent maturation of inhibitory circuits 141 ending the critical period requires astroglial Cx30. To investigate this possibility, we assessed 142 maturity of PV interneurons, which settle visual cortex inhibition, by determining the 143 144 abundance of their perineuronal nets (PNN) of extracellular matrix (ECM) proteins<sup>12</sup>. We found PNN to be significantly smaller in KD mice (Fig. 3f-g), thus revealing the immaturity 145 of these cells. In addition, while MD also decreased PNN in WT mice, it had no further effect 146 in KD mice, suggesting that reduction of PNN is a prerequisite for plasticity. Together, these 147 148 data indicate that the developmental rise of Cx30 during the critical period is required for the timely maturation of visual cortex inhibition. 149

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## 151 Astroglial Cx30 closes the critical period by downregulating the RhoA-MMP9 pathway

We then sought to identify the molecular pathway through which Cx30 modulates PNN extent 152 and maturation of PV interneurons. To this end we performed co-immunoprecipitation 153 experiments with biotinylated WFA lectin followed by quantitative proteomics of pulled 154 down proteins in WT and KD mice using label-free mass spectrometry. Reactome pathway 155 analysis of enriched or unique proteins in WT compared to KD samples indicated an 156 enrichment of proteins associated with the Rho GTPases-KTN1 pathway (Extended data 157 Table 3, Fig. 4a upper panel). Conversely, analysis of proteins unique and enriched in KD 158 compared to WT samples revealed enrichment of the RhoGTPases-ROCK pathway (Extended 159 data Table 3, Fig. 4a). Besides, mass spectrometry analysis of Cx30 co-immunoprecipitates 160 indicated interactions with Rho-GTPases signaling pathways, among which the Rho-161 associated protein kinase ROCK2 was significantly enriched in KD compared to WT 162 (Extended data Table 4, Fig. 4a lower panel). Together, this exploratory approach points to a 163 role of the Rho family of GTPases in the PNN changes between WT and KD mice. 164

RhoA, one family member of the Rho-GTPases, plays a key role in cell remodeling<sup>20</sup> through
 activation of ROCKs and its interactions with different connexins has been described in other

activation of ROCKs and its interactions with different connexins has been described in other
 cell types<sup>21,22</sup>. We thus tested the activation of RhoA by assessing levels of RhoA-GTP using

*immunohistochemistry*, and found a strong increase in KD mice (Fig. 4b). In addition, while

MD also increased RhoA-GTP in WT mice, it had no further effect in KD mice, suggesting that activation of RhoA pathway is a prerequisite for plasticity.

As the RhoA-ROCK pathway can modulate the expression of the ECM degrading enzyme Matrix Metalloproteinase-9  $(MMP9)^{23,24}$ , we next tested whether this signaling is involved in

the Cx30 regulation of PNNs and PV interneurons maturation. To do so, we assessed MMP9 173 expression in layer 4 of the visual cortex, and found that MMP9 levels were markedly 174 175 increased in KD mice compared to WT mice (Fig. 4c). In addition, akin to RhoA-GTP, while MD increased MMP9 levels in WT mice, it had no additional effect in KD mice (Fig. 4c). 176 This suggests that activation of the RhoA-ROCK pathway leads to the degradation of PNNs 177 through MMP9 in both KD mice and WT mice under MD condition. We next directly tested 178 this hypothesis by inhibiting the ROCK signaling pathway in vivo with fasudil (Fig. 4d) and 179 found that it rescued both MMP9 levels and PNN extent in KD mice, while it had no effect in 180 WT mice (Fig. 4e, f). These data therefore indicate that astroglial Cx30 regulates MMP9 181

182 levels and PV cell maturation via the RhoA-ROCK signaling pathway.

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## 184 Discussion

We here demonstrate that astrocytes control timing for closure of the postnatal critical period 185 of experience-dependent remodeling. We further identify that they achieve this through 186 developmental rise of the astroglial protein Cx30, which we found to inhibit expression of 187 MMP9 via the RhoA-ROCK pathway, thereby hindering maturation of local inhibition. While 188 the latter is established as a trigger for critical period closure, its control by astroglial 189 signaling place astrocytes as key elements orchestrating the shaping of synaptic circuits. 190 Beyond its role in critical period, the identified pathway may well be involved in structural 191 192 synaptic plasticity associated with cognitive functions, since we previously found that Cx30 regulates the structure and efficacy of the tripartite synapse in the hippocampus<sup>25</sup>. The 193 regulation of MMP9 levels that we here describe occurs via an unconventional signaling 194 through Cx30 and thus represents a novel astroglial pathway regulating wiring of brain 195 circuits. Because extended critical periods are associated with neurodevelopmental defects 196 resulting in sensori-motor or psychiatric disorders<sup>4,5</sup>, these findings provide a new target for 197 the development of strategies aiming at re-inducing a period of enhanced plasticity in adults 198 and favor rehabilitation after brain damage or developmental malfunction. 199

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## 266

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# 286 **Competing interests**

- 287 The authors declare no competing interests.
- 288
- 289 Additional Information
- 290
- 291 Supplementary Information is available for this paper.
- 292
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**Figure 1. Immature astrocytes favor cortical plasticity.** (a) Immature astrocytes from P1-P3 mice were transduced with PGK-GFP lentivirus, cultured for 10 DIV, and injected in the V1 area of adult mice (P100), as shown on the schematic (green circles), where the dashed line represents the binocular zone. Confocal images of GFP-expressing astrocytes integrated in the visual cortex of injected mice are shown. Intrinsic optical imaging was then conducted to record phase and magnitude retinotopic maps for each eye stimulation after 4 days of monocular deprivation (MD). (b) These maps are shown in top panels for animals injected

with control medium (Medium MD, n=7) or immature astrocytes (Astro MD, n=10) and for non-injected mice in control (non-injected, n=8) or MD (non-injected MD, n=7) conditions. Stimulated contralateral (C) and ipsilateral (I) eyes are indicated with a white (open) or black (closed) circle. Bottom panels show the normalized OD map with average value inset. (c) Mice injected with immature astrocytes showed a marked increase in OD plasticity compared

with control mice injected with rulture medium (P=0.043, DF=15, two-tailed t-test), while no

- $_{308}$  effect was observed in non-injected mice (P=0.899, DF=13, two-tailed t-test). (d)
- 309 Representative immunostaining for WFA (top), Cx30 (middle) and Aldh111 (bottom) in V1 of
- 310 P50 mouse (left panels), and corresponding quantification of spatial distributions across V1
- 311 layers (right panels, n=3 mice). (e) Western blot analysis reveals changes in Cx30 levels in
- 312 the visual cortex during development (n=6 per age, P=0.0001, Kruskal-Wallis (KW=22.31))
- and (f) after 4 days of dark exposure (n=6 per group, P=0.0022, U=0, Mann-Whitney test). (g)
- Intrinsic optical imaging for light (n=6) and dark (n=5) exposed animals showing that (h) dark
- exposure decreased OD index (P=0.035, DF=9, two-tailed t-test).



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Figure 2. Astroglial connexin 30 closes the critical period. (a) Functional maps in P50 317 wild-type (WT) and Cx30 knockdown (KD) mice in control and MD conditions. (b) 318 Developmental profile of OD index after MD in WT (P21, n=6; P28, n=7; P50, n=6; P100, 319 n=7) and KD mice (P21, n=3; P28, n=8; P50, n=6; P100, n=11), indicating a protracted and 320 enhanced plasticity at P50 in KD mice (P=0.0232, DF=46, two-way ANOVA followed by 321 Sidak post-hoc test). (c) Changes in response magnitude after MD in P50 mice result from an 322 increased response to the open (ipsilateral, I) eye stimulation in WT mice (n=6, P=0.0411, 323 U=5, Mann Whitney test), and from a decreased response to the closed (contralateral, C) eye 324 stimulation in KD mice (n=6, P=0.0022, U=0, Mann-Whitney test). (d) Mature astrocytes 325 expressing or not Cx30 were isolated from P19 WT (Astro +/+) or constitutive Cx30 326 knockout mice (Astros -/-), respectively, and were then transduced with PGK-GFP 327 lentiviruses and cultured for 10 DIV. Western blots and immunostaining show expression of 328 Cx30 in Astro +/+, but not in Astro -/-. (e) The cultured astrocytes were injected in adult mice 329 (P100), as shown on the schematics (green circles). (f) Functional maps show that OD 330 plasticity is enhanced in mice injected with Astro -/- (n=5) compared to mice injected with 331 Astro +/+ (n=6, P=0.038, DF=9, two-tailed t-test). 332





Figure 3. Astroglial Cx30 promotes the maturation of inhibitory circuits. (a) Schematic 334 diagram depicting the brain slice from which V1 pyramidal neurons from layer 4 were 335 recorded. (b) Example traces of sEPSCs (inward) and sIPSCs (outward) currents. (c) 336 Frequency, but not amplitude, of both sEPSCs (P=0.0192, U=11, Mann-Whitney test) and 337 sIPSCs (P=0.0034, U=5, Mann-Whitney test) was decreased in KD (n=10) compared to WT 338 mice (n=7). MD induced no plasticity in WT mice (n=7, P=0.7027, U=19 for sEPSCs, 339 P=0.6547 U=21, for sIPSCs, Mann-Whitney test), while it potentiated both the sEPSCs 340 (P=0.0090, U=13, Mann-Whitney test) and sIPSCs (P=0.0019, U=13, Mann-Whitney test) in 341 KD mice (n=9). (d) Example of evoked composite responses at increasing holding potentials 342 allowing decomposition of the total conductance (gT) into excitatory (gE) and inhibitory (gI) 343 conductances in WT and KD mice. (e) Inhibition/Excitation (I/E) ratio was reduced in KD 344 mice (n=7, P=0.0078, U=5, Mann-Whitney test) compared to WT (n=8). MD induced no 345 change in WT mice (n=8, P=0.7527, U=29, Mann-Whitney test), while it increased the I/E 346 ratio in KD mice (n=8, P=0.020, U=8, Mann-Whitney test). (f) WFA immunostaining and (g) 347 violin plot showing smaller perineuronal nets around PV interneurons in KD (n=177 cells 348 from 16 mice, P<0.0001), WT MD (n=171 cells from 6 mice, P=0.0007) and KD MD mice 349 (n=133 cells from 3 mice, p<0.0001) compared to WT mice (n=226 cells from 16 mice) 350 (Kruskal-Wallis (KW= 45.64) followed by Dunn's multiple comparisons post-hoc). 351





Figure 4. Astroglial Cx30 downregulates the RhoA-MMP9 pathway. (a) Top, volcano plot 353 analysis representing the 2096 quantified proteins with at least 3 total peptides in all replicates 354 enriched with biotinylated WFA lectin in KD and WT mice. Binding partners were obtained 355 by using quantitative label-free mass spectrometry analysis performed from three replicates. 356 Dashed vertical lines denote absolute fold change of 1.5 and the dashed horizontal line 357 denotes the adjusted P-value of ratio significance of 0.05. Selected enriched proteins in WT 358 (green) and KD (purple) samples are shown. Proteins from the enriched pathways Rho-359 GTPase activate KTN1 (blue) and Rho-GTPase activate ROCK (red) are highlighted. 360 External plots show proteins with peptides identified only in one sample type (left in KD and 361 right in WT). Bottom, volcano plot analysis representing interactors of Cx30 from the Rho-362 GTPase activate KTN1 (blue) and Rho-GTPase activate ROCK (red) pathways. The fold-363 change in WT (n=5) versus KD mice (n=4) are shown with selected proteins (Rock2 and 364 Myosin 14) quantified with an absolute fold change  $\geq 1.5$ , an adjusted P-value  $\leq 0.05$  and 365 with  $\geq$  3 peptides. (b) Immunostaining for RhoA-GTP showed a marked increase in KD 366 (n=27, P=0.0003), KD MD (n=16, P<0.0001) and WT MD mice (n=16, P<0.0001) compared 367 to WT mice (n=22) (slices from 3 mice per group) (Kruskal-Wallis (KW=41.23) followed by 368 Dunn's post-hoc test. (c) Immunostaining for MMP9 shows a marked increase in KD mice 369 (n=28, P<0.0001, DF=71), KD MD (n=13, P=0.0059, DF=71) and MD mice (n=12, 370 P=0.0322, DF=71) compared to WT mice (n=22) (ANOVA (F(3,71)=15.07) followed by 371 Tukey's post-hoc test). (d) Diagram depicting the protocol for experimental treatment with 372 Fasudil. (e) Fasudil rescued MMP9 levels in KD mice (KD+Fasudil: n=25 from 5 mice, 373 KD=28 slices from 3 mice, P<0.0001), while it had no effect in WT mice (WT+Fasudil: n=34 374 from 6 mice, WT: 22 slices from 3 mice, P>0.9999, Kruskall-Wallis (KW=55.98) followed by 375 Dunn's post-hoc test). (f) Fasudil rescued perineuronal nets levels in KD mice (KD+Fasudil: 376

- n=52 from 5 mice; KD, n=177 from 16 mice, P<0.0001) while it had no effect in WT mice
- 378 (WT+Fasudil, n=129 from 6 mice, WT, n=226 from 16 mice, P=0.1510) (Kruskall-Wallis
- 379 (KW=71.65) followed by Dunn's post-hoc test).

# Extended Data for

# Astrocytes close the critical period for visual plasticity

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#### This PDF file includes:

Extended Data Figures 1-3

Tables 1-4

Probe ID	Gene,symbol	Gene,title	adj,P,Val	Fold-Change in mature over immature astrocytes
Enriched genes	5		0.0105	111 420 4721
1441430_at	cDNA1	UI-M-DJ2-bwb-1-13-0-UI.s1 NIH_BMAP_DJ2 Mus musculus cDN/	0.0185	111.4304721
1432975_at	Emppi	multin associated aligedendrocytic basic protein	0.019	78.24897777
$1433765_a$	Dmp1	dentin matrix protein 1	0.019	28 4429658
1421425 a at	Rcan2	regulator of calcineurin 2	0.019	24 08394796
1455913 x at	Ttr	transthyretin	0.019	19.56224444
1419300 at	Flt1	FMS-like tyrosine kinase 1	0.0222	18.50701094
1417185 at	Ly6a	lymphocyte antigen 6 complex, locus A	0.019	16.56423878
1418091 at	Tfcp211	transcription factor CP2-like 1	0.019	16.1112888
1427345_a_at	Sult1a1	sulfotransferase family 1A, phenol-preferring, member 1	0.019	15.45498126
1417852_x_at	Clca3a1	chloride channel accessory 3A1	0.0214	15.24220797
1456228_x_at	Mbp	myelin basic protein	0.019	14.92852786
1427183_at	Efemp1	epidermal growth factor-containing fibulin-like extracellular n	0.0246	13.08643294
1435918_at	Fam107a	family with sequence similarity 107, member A	0.019	12.38051995
1450468_at	Myoc	myocilin	0.0227	10.55606329
1435851_at	Lg11	leucine-rich repeat LGI family, member 1	0.019	10.410/3484
1440225_at	Adgris	adhesion G protein-coupled receptor F5	0.0227	10.056107
1429100_s_at	CIIIII 2000052N01D3k	Calmin DIVEN (DNA 2000052N01 come	0.019	9.91/0010
1457495_at	Cdb10	cadharin 10, tuna 2	0.0214	9.781122222
1457575_at	Gpr143	G-protein_coupled receptor 143	0.0231	9.040402022
1439668 at	Gm11681	nredicted gene 11681	0.0232	9 18958684
1456633 at	Trpm3	transient receptor potential cation channel, subfamily M, meml	0.0236	9.126109727
1448397 at	Gib6	gap junction protein, beta 6	0.0274	9.063071082
1429177 x at	Sox17	SRY (sex determining region Y)-box 17	0.0199	8.75434961
1416468_at	Aldh1a1	aldehyde dehydrogenase family 1, subfamily A1	0.0251	8.633825892
1424854_at	Hist1h4m///Hist1h4	histone cluster 1, H4m///histone cluster 1, H4b///histone cluste	0.019	8
1451580_a_at	Ttr	transthyretin	0.019	8
1452318_a_at	Hspa1b	heat shock protein 1B	0.019	7.835362381
1459197_at	Cntn1	contactin 1	0.0199	7.781239579
1437056_x_at	Crispld2	cysteine-rich secretory protein LCCL domain containing 2	0.019	7.781239579
1436698_x_at	Tmem204	transmembrane protein 204	0.019	7.727490631
1425506_at	Mylk	myosin, light polypeptide kinase	0.019	7.568461174
1419/59_at	Abcbla	ATP-binding cassette, sub-family B (MDR/TAP), member TA	0.0199	7.464263932
141/5/4_at	Uset1h2h a///Uset1h/	chemokine (C-X-C motif) ligand 12	0.0246	7.412/04495
1445505_at	Pde8b	phosphodiesterase 8B	0.019	7.160200567
1433741_at	Hhatl	hedgehog acyltransferase-like	0.019	7.110741449
1445961 at	cDNA5	H3101D08-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDN	0.019	7 110741449
1460259 s at	Clca3a2///Clca3a1	chloride channel accessory 3A2///chloride channel accessory 3	0.0199	7.012845771
1422155 at	Hist2h3b///Hist1h3e	histone cluster 2, H3b///histone cluster 1, H3e///histone cluster	0.019	6.91629785
1436386 x at	Zfp982	zinc finger protein 982	0.03	6.821079134
1428387_at	Acsl3	acyl-CoA synthetase long-chain family member 3	0.019	6.773962499
1427126_at	Hspa1b	heat shock protein 1B	0.019	6.727171322
1436367_at	Ptprb	protein tyrosine phosphatase, receptor type, B	0.0203	6.680703355
1454969_at	Lypd6	LY6/PLAUR domain containing 6	0.019	6.634556367
1437264_at	BC051142	cDNA sequence BC051142	0.019	6.453134074
1458379_at	9330159F19Rik	RIKEN cDNA 9330159F19 gene	0.027	6.453134074
1452385_at	Usp53	ubiquitin specific peptidase 53	0.019	6.408559021
1416239_at	Gm5424///Ass1	argininosuccinate synthase pseudogene///argininosuccinate syr	0.0267	6.276672783
1428394_at	Lfrc8a///Phynd1	leucine rich repeat containing 8A///phytanoyl-CoA dioxygenas	0.019	6.233316637
1455452_x_at	KCt014	PULSEN aDNA D020005C15 area	0.0359	6.105036836
1439223_at	B930093GIJKIK Phon2	rhophilin. Pho GTPase hinding protein 2	0.0214	6.062866266
1434028_a_at	S100b	S100 protein beta polypentide neural	0.019	6.02098699
1419585_at	Pnm1a	protein phosphatase 1A magnesium dependent alpha isoform	0.0201	5 979396995
1460043 at	cDNA2	BB357628 RIKEN full-length enriched adult male corrus striatum	0 0251	5.897076869
1439096 at	Ddo	D-aspartate oxidase	0.0221	5.856342784
1418788 at	Tek	endothelial-specific receptor tyrosine kinase	0.0191	5.856342784
1436569 at	Prex2	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac excha	0.0229	5.856342784
1424842 a at	Arhgap24	Rho GTPase activating protein 24	0.0191	5.815890069
1459849_x_at	Vcpip1	valosin containing protein (p97)/p47 complex interacting prote	0.019	5.815890069
1439830_at	Map3k5	mitogen-activated protein kinase kinase kinase 5	0.0232	5.775716782
1425811_a_at	Csrp1	cysteine and glycine-rich protein 1	0.0262	5.735820992

1449102_at	Ebf2	early B cell factor 2	0.0277	5.656854249
1416069_at	Pfkp	phosphofructokinase, platelet	0.0191	5.656854249
1435640 x at	A130040M12Rik	RIKEN cDNA A130040M12 gene	0.0881	5.656854249
1422522 of	Ange	aminoadinata samialdahuda sunthasa	0.027	5 578074665
1423323_at	Adss D1 1		0.027	5.578974005
1436173_at	DICI	deleted in liver cancer l	0.0236	5.5/89/4665
1439655_at	cDNA3	H3018G09-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDN	0.0231	5.578974665
1434354 at	Maob	monoamine oxidase B	0.0199	5.464161027
1435361_at	Sema3g	sema domain, immunoglobulin domain (Ig), short basic domai	0.019	5 464161027
1416164 at	Eblas 5	Schulin 5	0.017	5 42641721
1416164_at	Fbin5	nouin 5	0.0237	5.42641/31
1416200_at	1133	interleukin 33	0.0251	5.388934307
1448961 at	Plscr2	phospholipid scramblase 2	0.0464	5.388934307
1450653 at	Spz1	spermatogenic leucine zipper 1	0.0191	5 388934307
1/27277 x of	Tam?	transalutaminasa 2 C nalumantida	0.0204	5 388034307
1437277_X_at	Tgili2	transgiutanniase 2, C polypeptide	0.0204	5.588954507
143828/_x_at	Ddx39	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	0.08/8	5.351/10219
1455799_at	Rorb	RAR-related orphan receptor beta	0.0191	5.314743256
1438980 x at	Pm20d1	peptidase M20 domain containing 1	0.024	5.278031643
1416003_at	Cldn11	claudin 11	0.025	5 241573615
1410005_at	List0h0ho	historia abustori 2. U2ha	0.025	5 241573615
144/834_s_at	Hist2fi2be	histone cluster 2, H2De	0.0199	5.2415/3015
Downregulated	l genes			
1451246 s at	Aurkh	aurora kinase B	0.019	-51 26847217
$1451240_{3}$ at	Turko	ten sisteman (DNA) II slake	0.019	-31.2004/21/
1454694_a_at	Top2a	topolsomerase (DNA) II alpha	0.019	-24.42014/34
1439904_at	Fstl5	follistatin-like 5	0.019	-20.39297004
1448314 at	Cdk1	cyclin-dependent kinase 1	0.019	-16.1112888
1448627 s at	Phk	PDZ hinding kinase	0.019	-15 24220797
1434810 of	Stégol?	hata galastagida alpha 2.6 gialultrangfaraga 2	0.010	14 22040112
1454619_at	Stogalz	beta galacioside alpha 2,0 slatyitlansierase 2	0.019	-14.32040113
1436847_s_at	Cdca8	cell division cycle associated 8	0.019	-14.2214829
1416558_at	Melk	maternal embryonic leucine zipper kinase	0.019	-13.8325957
1426817 at	Mki67	antigen identified by monoclonal antibody Ki 67	0.019	-12.81711804
1423775 s at	Prc1	protein regulator of cytokinesis 1	0.019	-11 79415374
1420004 -+	D2	UDD ClaNA schotz Callesta 1.2 N anatalalana annimalter a fam	0.019	11.70415274
1420994_at	Bognto	UDP-GICNAC:DetaGal Deta-1,3-N-acetylglucosaminyltransfer?	0.019	-11./94153/4
1419153_at	2810417H13Rik	RIKEN cDNA 2810417H13 gene	0.019	-11.15794933
1428304_at	Esco2	establishment of sister chromatid cohesion N-acetyltransferase	0.0277	-10.48314723
1436013 at	Gsg11	GSG1-like	0.019	-10.48314723
1417458 c. ot	Cko2	CDC28 protein kingse regulatory subunit 2	0.010	10.056107
1417436_5_at	CK52	CDC28 protein kinase regulatory subunit 2	0.019	-10.030107
141/910_at	Cena2	cyclin A2	0.019	-9.91/6616
1447363_s_at	Bub1b	BUB1B, mitotic checkpoint serine/threonine kinase	0.019	-9.781122222
1429295 s at	Trip13	thyroid hormone receptor interactor 13	0.019	-9.781122222
1430000_at	B230117015Rik	RIKEN cDNA B230117015 gene	0.0506	-9 579829637
1450000_at	Libe2e	which it is an in a string and the Solid	0.0500	0.570820627
1452954_at	Ube2c	ubiquitin-conjugating enzyme E2C	0.019	-9.5/982905/
1416251_at	Mcm6	minichromosome maintenance complex component 6	0.019	-9.382679594
1438262_at	Slc8a2	solute carrier family 8 (sodium/calcium exchanger), member 2	0.019	-9.000467878
1436808 x at	Mcm5	minichromosome maintenance complex component 5	0.019	-8 815240927
1456231_at	Pla2a3	nhoenholingee A2 group III	0.0227	8 330726087
1450251_at	T 1a2g5	the line line of the transformed and the transforme	0.0227	-0.339720087
1460627_at	Thsd/b	thrombospondin, type I, domain containing /B	0.019	-8.16809/006
1423146_at	Hes5	hairy and enhancer of split 5 (Drosophila)	0.019	-8.111675838
1454613 at	Dpysl3	dihydropyrimidinase-like 3	0.019	-8
1416410_at	Pafah1h3	nlatelet-activating factor acetylhydrolase, isoform 1b, subunit	0.019	-8
1448205_at	Gm5502///Conh1	predicted game 5502///avalin P1	0.019	8
1446205_at			0.019	-0
1424278_a_at	Bire5	baculoviral IAP repeat-containing 5	0.0214	-7.835362381
1438852_x_at	Mcm6	minichromosome maintenance complex component 6	0.019	-7.727490631
1450842 a at	Cenpa	centromere protein A	0.019	-7.621103984
1422134 at	Fosh	FBL osteosarcoma oncogene B	0.019	-7 621103984
1419224 at	Dhf4	DEFA sing finger	0.010	7.621103901
1418554_at	D014	DBF4 Zinc Tinger	0.019	-/.3084011/4
1456344_at	The	tenascin C	0.0274	-7.568461174
1424764_at	Sez6l	seizure related 6 homolog like	0.019	-7.516181994
1435963 at	Sema5b	sema domain, seven thrombospondin repeats (type 1 and type	0.0199	-7.516181994
1441536_at	Hmges1	3-hydroxy-3-methylglutaryl-Coenzyme $\Delta$ synthese 1	0.0267	-7 464263032
1426007 ~*	Nov1	neuron neurontor 1	0.0207	7 41 270 4 405
143090/_at	INAVI	neuron navigator i	0.019	-7.412/04495
1452242_at	Cep55	centrosomal protein 55	0.019	-7.361501205
1424046_at	Bub1	BUB1, mitotic checkpoint serine/threonine kinase	0.019	-7.160200567
1416266 at	Pdyn	prodynorphin	0.0263	-7.160200567
1456354 at	Chrna4	cholinergic recentor nicotinic alpha polypentide 4	0.0203	-7 110741440
1425220		enominargie receptor, mediume, aipita polypeptide 4	0.0203	7.110/71449
1435338_at	Сако	cyclin-dependent kinase 6	0.022	-7.06162397
1456509_at	1110032F04Rik	RIKEN cDNA 1110032F04 gene	0.019	-7.06162397
1436392_s at	Tfap2c	transcription factor AP-2, gamma	0.019	-7.06162397
1416050 a at	Scarb1	scavenger receptor class B, member 1	0.019	-7.012845771

1438009_at	Hist1h2ao///Hist1h	2 histone cluster 1, H2ao///histone cluster 1, H2ai///histone clust	0.019	-6.964404506
1451128_s_at	Kif22	kinesin family member 22	0.019	-6.964404506
1421546_a_at	Racgap1	Rac GTPase-activating protein 1	0.019	-6.964404506
1415810_at	Uhrfl	ubiquitin-like, containing PHD and RING finger domains, 1	0.019	-6.964404506
1435627_x_at	Marcks11	MARCKS-like 1	0.019	-6.91629785
1433935_at	AU020206	expressed sequence AU020206	0.019	-6.868523492
1429171_a_at	Ncapg	non-SMC condensin I complex, subunit G	0.019	-6.868523492
1449171_at	Ttk	Ttk protein kinase	0.0199	-6.821079134
1418666_at	Ptx3	pentraxin related gene	0.019	-6.680703355
1416505_at	Nr4a1	nuclear receptor subfamily 4, group A, member 1	0.019	-6.634556367
1455622_at	Podx12	podocalyxin-like 2	0.0253	-6.543216468
1448194_a_at	Mir675///H19	microRNA 675///H19, imprinted maternally expressed transcri	0.019	-6.453134074
1434400_at	Tgif2	TGFB-induced factor homeobox 2	0.019	-6.453134074
1419513_a_at	Ect2	ect2 oncogene	0.019	-6.408559021
1417395_at	Klf4	Kruppel-like factor 4 (gut)	0.0211	-6.408559021
1450920_at	Ccnb2	cyclin B2	0.0227	-6.36429187
1416514_a_at	Fscn1	fascin actin-bundling protein 1	0.019	-6.36429187
1452519_a_at	Zfp36	zinc finger protein 36	0.019	-6.276672783
1448777_at	Mcm2	minichromosome maintenance complex component 2	0.019	-6.233316637
1435306_a_at	Kif11	kinesin family member 11	0.0192	-6.062866266
1434767_at	Mis18bp1	MIS18 binding protein 1	0.019	-6.062866266
1441491_at	A330068G13Rik	RIKEN cDNA A330068G13 gene	0.0274	-6.062866266
1460608_at	Cacna1b	calcium channel, voltage-dependent, N type, alpha 1B subunit	0.035	-5.979396995
1441693_at	Adamts3	a disintegrin-like and metallopeptidase (reprolysin type) with t	0.019	-5.938094283
1455899_x_at	Socs3	suppressor of cytokine signaling 3	0.019	-5.938094283
1459403_at	Ldlr	low density lipoprotein receptor	0.0222	-5.897076869
1434115_at	Cdh13	cadherin 13	0.0221	-5.856342784
1416442_at	Ier2	immediate early response 2	0.019	-5.856342784
1424118_a_at	Spc25	SPC25, NDC80 kinetochore complex component, homolog (S,	0.0191	-5.735820992
1449581_at	Emid1	EMI domain containing 1	0.0199	-5.696200782
1436718_at	Nxph1	neurexophilin 1	0.019	-5.696200782
1427256_at	Vcan	versican	0.0214	-5.617779503
1442280_at	Knstrn	kinetochore-localized astrin/SPAG5 binding	0.024	-5.578974665
1427161_at	Cenpf	centromere protein F	0.019	-5.540437872
1459627_at	Msmo1	methylsterol monoxygenase 1	0.0391	-5.540437872
1441983_at	cDNA4	UI-M-BH3-aqt-d-10-0-UI.s1 NIH_BMAP_M_S4 Mus musculus cD1	0.0246	-5.502167273
1454700_at	Lrfn4	leucine rich repeat and fibronectin type III domain containing	0.0199	-5.464161027
1416299_at	Shcbp1	Shc SH2-domain binding protein 1	0.0199	-5.464161027
1456158_at	Draxin	dorsal inhibitory axon guidance protein	0.0259	-5.42641731
1416028_a_at	Hn1	hematological and neurological expressed sequence 1	0.019	-5.42641731
1417822_at	D17H6S56E-5	DNA segment, Chr 17, human D6S56E 5	0.0191	-5.351710219
1455272_at	Grm5	glutamate receptor, metabotropic 5	0.0199	-5.351710219
1419156_at	Sox4	SRY (sex determining region Y)-box 4	0.0199	-5.351710219
1452092_at	Chst15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotrans	0.0232	-5.314743256
1428105_at	Tpx2	TPX2, microtubule-associated	0.025	-5.205367422
1452534_a_at	Hmgb2	high mobility group box 2	0.0222	-5.169411323

**Extended Table 1. Genes statistically enriched and down-regulated in developing astrocytes**. The differentially expressed genes in mature astrocytes (P30) compared to immature astrocytes (P7) are listed along with their fold-change enrichment and the Affymetrix probe set ID (Cahoy et al., 2008). All genes are statistically different by Geo2R analysis with an adjusted P-value (Benjamini and Hochberg, 1995 FDR) threshold <5%. There are 93 and 82 immature and mature astrocyte-enriched genes, respectively, selected with a 5-fold change criteria.

GOID	TERM	CORRECTED _PVALUE	NUM_LIST _ANNOTATIONS	LIST_ SIZE	TOTAL_NUM _ANNOTATIONS	POPULATION _SIZE	ANNOTATED_GENES
<b>Upregulated genes</b> GO:0030054	cell junction	0.0067	13	73	1210	24808	CDH19,LYPD6,ARHGAP2,MYLK,GJB6,CLDN11,USP53,DLC1, TMEM0ALICU FAMUOTA ADCD10 TEK
GO:0015629	actin cytoskeleton	0.0168	8	73	505	24808	INENI204, COIT, FAMIO/A, ADCDIe, TEK
GO:0043209	myelin sheath	0.0056	6	73	213	24808	MOBP,FLT1,FAM107A,CSRP1,MYLK,GJB6,DLC1,TEK
GO:0019867	outer membrane	0.0416	5	73	197	24808	MOBP, MYOC, MBP, ASS1, CLDN11, CNTN1
							MYOC, CLMN, ASS1, MAOB, ACSL3
<b>Downregulated genes</b> GO:0000278	mitotic cell cycle	1.7935e-21	32	90	833	24808	
							BUBIB, CENPF, CEP55, CK52, TOP2A, MCM6, KNSTRN, UBE2C, MCM2, MKI67, SPC25, TRIP13, DBF4, CENPA, CCNB1, PRC1, KIF22, CCNA2, KLF4, CDK1, KIF11, CCNB2, PBK, ECT2, BIRC5, SOX4, NCAPG, AURKB, CDCA8, TPX2, BUB1, RACGAP1
GO:0007049	cell cycle	2.7605e-19	39	90	1673	24808	BUB1B, CENPF, CEP55, CKS2, TOP2A, MCM6, KNSTRN, UBE2C, NR4A1, MCM2, MIS18BP1, MK167, SPC25, TRIP13, DBF4, CENPA, CCNB1, PRC1, MCM5, ESCO2, KIF22, CCNA2, MELK, UHRF1, KLF4, CDK1, KIF11, CCNB2, PBK, ECT2, BIRC5, SOX4, NCAPG, AURKB, CDCA8, TPX2, BUB1, RACGAP1, 2810417H13Rik
GO:0007059	chromosome segregation	8.6449e-15	19	90	327	24808	BUB1B, CENPF, ESCO2, KIF22, TOP2A, KNSTRN, UBE2C, MKI67, SPC25, TRIP13, ECT2, BIRC5, CCNB1, NCAPG, AURKB, CDCA8, BUB1, RACGAP1, PRC1
GO:0051301	cell division	1.7635e-13	22	90	588	24808	BUB18, CEP55, CKS2, CCNA2, TOP2A, KNSTRN, CDK1, KIF11, UB2C, MIS18BP1, SPC25, CCNB2, ECT2, CENPA, BIRC5, CCNB1, AURKB, CDC48, TPX2, BUB1, PRC1, RACGAP1
GO:0000280	nuclear division	9.5614e-13	19	90	422	24808	BUB1B, CKS2, KIF22, TOP2A, KNSTRN, KIF11, UBE2C, MKI67, TRIP13, CCN82, BIRC5, CCNB1, NCAPG, AURKB, CDCA8, TPX2, BUB1, PRC1, RACGAP1

Abbreviations: NUM\_LIST\_ANNOTATIONS: number of genes from the input list that match the annotation LIST\_SIZE: number of genes in the input list TOTAL\_NUM\_ANNOTATIONS: number of genes from the mouse genome that match the annotation

POPULATION\_SIZE: number of genes in the mouse genome

Extented Table 2. GO Term Finder analysis of genes upregulated and downregulated in mature vs immature astrocytes. Selected lists of differentially expressed genes (93 down- and 82 up-regulated genes) were analyzed for GO terms selecting "process" for immature associated genes and "component" for mature ones. Whereas immature astrocytes are characterized by intensive cell division, mature astrocytes present enrichment in genes involved in cell junction.



**Extended Figure 1. Semantic similarity-based scatterplots of GO terms**. GO terms (Extended Data Table 2) identified through the analysis of down or up-regulated genes (Extended Data Table 1) respectively associated to immature (P7) and mature (P30) astrocytes and visualized according to the similarity of the GO terms along arbitrary X and Y axis. Each circle is color-coded according to the frequency of the GO term in the EBI GOA reference database, and the number of genes per GO term is indicated in parenthesis. Circle size indicates the P-value (circles with bigger size have smaller P value) (Extended Table 2).



**Extended Figure 2. Characterization of Cx30 KD mice.** (a) Western blot analysis from visual cortex shows a decrease of 70% in Cx30 expression in KD mice (n=3) compared to WT mice (n=8, P=0.0242, U=1, Mann-Whitney test). (b) Immunostaining of Cx30 in the visual cortex also shows a 70% decrease in Cx30 expression in astrocytes in KD mice (n=7 samples from 3 mice) compared to WT mice (n=8 samples from 3 mice, P=0.0003, U=0, Mann-Whitney test).



**Extended Figure 3. Retinal activation is unchanged in KD mice.** The changes in potentials induced by light flashes of increasing intensity (from 0.02 to 10 Cd.s/m2) in the retinal tissue was assessed by recording alpha- and beta-wave latency and amplitude. No difference in electroretinograms were detected between WT (n=6) and KD mice (n=6, alpha wave latency: P=0.5550, DF=50, F(1,50)=0.3531; alpha wave amplitude: P=0.6231, DF=50, F(1,50)=0.2446; beta wave latency: P=0.5278, DF=71, F(1,71)=0.4027; beta wave amplitude: P=0.8016, DF=70, F(1,70)=0.06365; 2-way ANOVA).

146/2164	Gene & Synonyms			WFA V	VT /KD			Total	MW	Description	Species
				Adi n-		Distinct	Pentide				
		Ratio	Log2	value	CV %	used	used				
P61759	Vbp1,Pfdn3	1000.00	1000.00			1	4	4	22.4	Prefoldin subunit 3	Mus musculus
Q8CES0 Q9EQG3	Naa30,Mak3,Nat12 Scel	1000.00	9.66			1	3	3	39.4	N-alpha-acetyltransferase 30 Sciellin	Mus musculus Mus musculus
035551	Rabep1,Rab5ep,Rabpt5,Rabpt5a	134.15	7.07			1	3	3	99.5	Rab GTPase-binding effector protein 1	Mus musculus
054988	Slk,Kiaa0204,Stk2	3.20	1.68	2.39E-06	15.59530284	11	67	69	141.5	STE20-like serine/threonine-protein kinase	Mus musculus
Q8QZX0 08CJ19	Mical3.Kiaa0819.Kiaa1364	2.90	1.54	0.006079	21.25373328	5	26	30	45.7	[F-actin]-monooxygenase MICAL3	Mus musculus
P68404	Prkcb,Pkcb,Prkcb1	2.66	1.41	0.002285	17.64812435	4	18	19	76.8	Protein kinase C beta type	Mus musculus
P26516	Psmd7,Mov-34,Mov34	2.56	1.36	2.9E-05	13.76946143	4	27	31	36.5	26S proteasome non-ATPase regulatory subunit 7	Mus musculus
Q8K319 P54254	Atxn1 Sca1	2.51	1.33	0.026854 2.27E-05	19.02016517	6	30	32	83.8	Ataxin-1	Mus musculus
Q76LL6	Fhod3,Fhos2,Kiaa1695	2.32	1.21	0.013662	12.80855473	2	9	11	175.7	FH1/FH2 domain-containing protein 3	Mus musculus
088738	Birc6,Kiaa1289	2.25	1.17	0.010948	20.16502341	3	14	15	532.2	Baculoviral IAP repeat-containing protein 6	Mus musculus
Q62446 P52480	Pkmp3,Pk0p25 Pkm.Pk3.Pkm2.Pvkm	2.20	1.14	2.81E-11	9.468352062	7	55	57	57.8	Peptidyl-protyl cis-trans isomerase FKBP3 Pvruvate kinase PKM	Mus musculus
Q80XI3	Eif4g3	2.16	1.11	1.09E-15	7.882255709	10	77	88	174.9	Eukaryotic translation initiation factor 4 gamma 3	Mus musculus
A2AN08	Ubr4,Kiaa0462,Zubr1	2.13	1.09	0.001063	20.53598837	7	36	39	572.3	E3 ubiquitin-protein ligase UBR4	Mus musculus
P48678	Lmna.Lmn1	2.10	1.07	0.000678	23.00733647	3	17	21	74.2	Prelamin-A/C	Mus musculus
Q811P8	Arhgap32,Grit,Kiaa0712,Rics	2.05	1.03	7.19E-12	9.132445507	10	60	71	229.7	Rho GTPase-activating protein 32	Mus musculus
Q3THK3	Gtf2fl	2.00	1.00	0.007011	18.28659847	3	14	18	57.2	General transcription factor IIF subunit 1	Mus musculus
E9Q557 08JZO9	Lisp Eif3b.Eif3s9	1.99	0.99	0.00028	20.99918586	12	12	12	91.4	Eukarvotic translation initiation factor 3 subunit B	Mus musculus
055143	Atp2a2	1.98	0.98	0.008788	25.3912108	5	29	34	114.9	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	Mus musculus
Q62318	Trim28,Krip1,Tif1b	1.96	0.97	7.79E-08	13.18544934	8	62	64	88.8	Transcription intermediary factor 1-beta Sarina/thraanina protain kinasa WNK2	Mus musculus
008586	Pten,Mmac1	1.90	0.97	0.042364	20.4282488	2	15	16	47.2	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein	Mus musculus
										phosphatase PTEN	
O35385	Ppef2	1.91	0.94	0.001789	12.79143067	1	12	12	86.6	Serine/threonine-protein phosphatase with EF-hands 2	Mus musculus
Q9QYR6	Mapla,Mtapl,Mtapla	1.91	0.94	1.08E-08	14.76681154	53	290	302	300.1	Microtubule-associated protein 1A	Mus musculus
088447	Klc1,Kns2	1.91	0.93	6.56E-11	7.79711168	8	39	52	61.5	Kinesin light chain 1	Mus musculus
P33175	Kif5a,Kiaa4086,Kif5,Nkhc1	1.89	0.92	0.048086	26.18822758	2	12	12	117.0	Kinesin heavy chain isoform 5A	Mus musculus
O8CDA1	Inpp5f.Kiaa0966.Sac2	1.84	0.92	2.29E-08	11.95669286	8	55	66	127.6	Phosphatidylinositide phosphatase SAC2	Mus musculus
P33173	Kifla,Atsv,Kifl	1.83	0.87	1.65E-05	14.82556407	5	35	40	191.7	Kinesin-like protein KIF1A	Mus musculus
Q3UYC0	Ppm1h,Kiaa1157	1.80	0.85	2.11E-05	15.26105258	4	37	47	56.4	Protein phosphatase 1H	Mus musculus
Q80ZJ7 Q35382	Snx32,Snx60 Exoc4.Sec8.Sec811	1.79	0.84	0.003708	20.04872335	1	10	12	46.6	Exocvst complex component 4	Mus musculus
Q61768	Kif5b,Khcs,Kns1	1.75	0.81	2.2E-06	14.63427064	8	50	54	109.6	Kinesin-1 heavy chain	Mus musculus
P42859	Htt,Hd,Hdh	1.74	0.80	0.010867	25.76552188	5	27	29	344.7	Huntingtin	Mus musculus
P54822 O61879	Adsl,Adl Myh10	1.74	0.80	0.024474 648E-27	23./14/8869 5.896485627	2	14	18	229.0	Adenylosuccinate lyase Myosin-10	Mus musculus Mus musculus
Q6PD10	Ip6k1,Ihpk1	1.73	0.79	0.049286	14.9523868	2	8	8	49.3	Inositol hexakisphosphate kinase 1	Mus musculus
Q91WG7	Dgkg,Dagk3	1.73	0.79	0.020893	26.6598409	4	20	23	88.5	Diacylglycerol kinase gamma	Mus musculus
P52623	Uck1.Umpk	1.73	0.79	0.0004272	24.04496638	3	28	28	31.1	Uridine-cytidine kinase 1	Mus musculus
Q8CI94	Pygb	1.70	0.77	0.01997	28.16517117	5	26	29	96.7	Glycogen phosphorylase, brain form	Mus musculus
F6SEU4	Syngap1	1.68	0.75	0.008479	26.43766935	5	38	40	148.2	Ras/Rap GTPase-activating protein SynGAP	Mus musculus
Q8BMF4	Diat	1.67	0.74	1.6/E-05	15.9/545485	0	51	30	67.9	complex, mitochondrial	Mus musculus
Q6P1I6	Psd2	1.67	0.74	0.015629	24.89529792	3	18	18	84.3	PH and SEC7 domain-containing protein 2	Mus musculus
Q9DB27	Mcts1	1.67	0.74	0.009234	23.78461434	3	21	23	20.6	Malignant T-cell-amplified sequence 1	Mus musculus
Q8CGC7	Eprs, Qprs	1.66	0.74	3.49E-12	11.6193788	24	166	102	170.1	Bifunctional glutamate/prolinetRNA ligase	Mus musculus
P70290	Mpp1	1.64	0.71	0.000675	18.54377691	4	28	30	52.2	55 kDa erythrocyte membrane protein	Mus musculus
Q9D8U8	Snx5	1.63	0.71	1.34E-06	12.46985036	6	34	36	46.8	Sorting nexin-5	Mus musculus
Q80XQ2	Tbc1d5	1.63	0.70	0.003155	21.57073782	5	26	27	91.8	TBC1 domain family member 5	Mus musculus
Q8VDN4	Ccdc92,D5Bwg0834e	1.61	0.69	0.000675	21.33832429	6	52	57	35.2	Coiled-coil domain-containing protein 92	Mus musculus
008919 00DBC2	Numbl,Nbl Cmtr1 Etxid2 Kina0082	1.59	0.67	0.004506	23.54602998	2	30	30	64.1	Numb-like protein	Mus musculus
Q6NZL0	Soga3	1.57	0.65	0.008788	26.07925649	5	34	37	103.5	Protein SOGA3	Mus musculus
Q9CQ79	Txndc9,Apacd	1.56	0.64	0.004261	24.15682851	5	37	37	26.3	Thioredoxin domain-containing protein 9	Mus musculus
Q62420	Sh3gl2,Sh3d2a Chrs2 Pibp112	1.56	0.64	3.38E-06	14.26796973	5	43	49	40.0	Endophilin-A1 Clavesin-2	Mus musculus
Q8VHJ5	Mark1,Emk3,Kiaa1477	1.55	0.64	0.023248	30.31749528	4	37	40	88.3	Serine/threonine-protein kinase MARK1	Mus musculus
Q8CHC4	Synj1,Kiaa0910	1.55	0.63	4.84E-12	12.10563611	31	224	230	172.6	Synaptojanin-1	Mus musculus
Q8K394	Plcl2,Kiaa1092,Plce2	1.53	0.62	3.03E-05	16.47086309	7	44	58	125.8	Inactive phospholipase C-like protein 2 SH2 and multiple aplearin repeat domains protein 1	Mus musculus
Q9ES97	Rtn3	1.52	0.60	0.001217	24.84622418	10	52	67	103.9	Reticulon-3	Mus musculus
P51174	Acadl	0.66	-0.59	6.6E-06	12.10153131	5	27	34	47.9	Long-chain specific acyl-CoA dehydrogenase, mitochondrial	Mus musculus
Q8BGQ7	Aars Hene0 Crn75 Hen74 Hene0e	0.66	-0.59	0.005213	26.15965795	10	61 50	69 56	106.9	AlaninetRNA ligase, cytoplasmic Strace 70 protein, mitashandrial	Mus musculus
Q922Q4	Pyer2	0.66	-0.60	0.000080	18.44134176	2	10	11	33.7	Pyroline-5-carboxylate reductase 2	Mus musculus
Q62165	Dag1,Dag-1	0.65	-0.61	0.002788	18.75329902	2	18	18	96.9	Dystroglycan	Mus musculus
Q62188 Q920P5	Dpysl3,Drp3,Ulip Ak5	0.65	-0.62	1.04E-06	13.51874369	5	44	47	61.9	Dihydropyrimidinase-related protein 3 Adenylate kinase isoenzyme 5	Mus musculus Mus musculus
Q920F5 Q7TN29	Smap2,Smap11	0.65	-0.63	2.7E-05	15.37998954	4	34	35	46.6	Stromal membrane-associated protein 2	Mus musculus
Q9DCW4	Etfb	0.64	-0.64	0.002068	23.40384061	6	48	48	27.6	Electron transfer flavoprotein subunit beta	Mus musculus
Q9JKY5 P21081	Hip1r Tem2	0.64	-0.64	0.000462	20.73315839	10	55	69	119.4	Huntingtin-interacting protein 1-related protein Protein glutaming gamma glutamultransforaça 2	Mus musculus
Q91VJ5	Pqbp1,Npw38	0.64	-0.65	0.026627	5.719685746	1	6	6	30.6	Polyglutamine gamma-gutaniyuransierase 2	Mus musculus
Q8R001	Mapre2	0.63	-0.66	0.012228	28.64501901	10	51	60	36.9	Microtubule-associated protein RP/EB family member 2	Mus musculus
008585	Clta Ndufa7	0.63	-0.67	2.68E-06	10.88919057	2	24	24	25.6	Clathrin light chain A NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7	Mus musculus
Q8K3H0	Appl1,Dip13a,Kiaa1428	0.62	-0.68	0.003607	17.06072203	2	15	18	79.3	DCC-interacting protein 13-alpha	Mus musculus
Q71LX4	Tln2	0.62	-0.68	0.000163	21.35196305	31	189	191	253.6	Talin-2	Mus musculus
P97315 O3UHI0	Csrp1,Crp1,Csrp Aak1 Kiaa1048	0.62	-0.68	1.14E-05	16.27098768	7	53	58	20.6	Cysteine and glycine-rich protein 1 AP2-associated protein kinase 1	Mus musculus
P99029	Prdx5,Prdx6	0.62	-0.70	2.68E-08	11.44280753	7	45	46	21.9	Peroxiredoxin-5, mitochondrial	Mus musculus
Q810A7	Ddx42	0.61	-0.70	0.000423	20.28254695	8	47	50	102.0	ATP-dependent RNA helicase DDX42	Mus musculus
Q03265	Atp5a1 Lysmd1	0.61	-0.71	4.64E-07	13.87154214	9	58	73	59.8	ATP synthase subunit alpha, mitochondrial	Mus musculus
Q6PB44	Ptpn23,Kiaa1471	0.61	-0.72	0.001859	20.34852808	5	26	26	185.2	Tyrosine-protein phosphatase non-receptor type 23	Mus musculus
Q3UHD9	Agap2,Centg1,Kiaa0167	0.60	-0.74	2.64E-05	17.63216822	8	63	69	124.5	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2	Mus musculus
Q99K01 P26039	Pdxdc1 Tln1 Tln	0.60	-0.74	0.001835 5 59E-05	22.46675189	7	41	44	87.3	Pyridoxai-dependent decarboxylase domain-containing protein 1 Talin-1	Mus musculus Mus musculue
P08553	Nefm,Nef3,Nfm	0.60	-0.74	0.000894	15.4988097	2	17	18	95.9	Neurofilament medium polypeptide	Mus musculus
P59759	Mkl2,Mrtfb	0.60	-0.74	0.000361	18.00130202	5	30	34	117.5	Myocardin-related transcription factor B	Mus musculus
Q7SIG6 008749	Asap2,Ddef2,Gm1523,Gm592 Dld	0.60	-0.75	0.01693	26.56912474	4	23	27	106.8	Art-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 Dibydrolinovl debydrogenase, mitochondrial	Mus musculus
P46660	Ina	0.59	-0.76	0.047122	26.0321697	3	13	17	55.4	Alpha-internexin	Mus musculus
O88492	Plin4,Kiaa1881	0.59	-0.77	0.007061	22.24949292	4	20	23	139.4	Perilipin-4	Mus musculus
Q80X50	Ubap21 Peca	0.58	-0.79	0.005682 7.84E-12	25.77866756	10	49	52 81	116.8	Ubiquitin-associated protein 2-like Propionyl-CoA carboxylase alpha chain_mitochondrial	Mus musculus Mus musculus
Q61548	Snap91	0.58	-0.79	0.009377	27.94765994	9	55	63	91.9	Clathrin coat assembly protein AP180	Mus musculus
Q9DCX2	Atp5h	0.57	-0.81	0.027797	29.47730013	3	24	24	18.7	ATP synthase subunit d, mitochondrial	Mus musculus
P26443	Glud1,Glud	0.57	-0.82	1.22E-05	15.57543874	6	45	53	61.3	Giutamate dehydrogenase 1, mitochondrial	Mus musculus



**Extented Table 3. List of the WFA protein partners.** Analysis of the changing WFA interactors in WT vs KD mice. In WT cells, 70 proteins were enriched or unique (log2 ratio=1000) compared to Cx30 KD cells (with the following parameters: number of peptides $\geq$ 3, ratio $\geq$ 1.5 and p-value $\leq$ 0.05), while in Cx30 KD cells 77 proteins were enriched or unique (log2 ratio = -1000) compared to WT cells (with the following parameters: number of peptides $\geq$ 3, ratio $\geq$ 1/1.5 and p-value $\leq$ 0.05). WT and KD proteins are highlighted in red and green, respectively. Protein from the pathways Rho GTPase activate KTN1 (bold green) and Rho GTPase activate ROCK (bold red) are indicated.

361/2370 proteins	Gene & Synonyms			Cx30 V	WT/KD			Total	MW	Description	Species
				Adj. p-		Distinct peptide	Peptide				
204010	01.4.1.4.1	Ratio	Log2	value	CV %	used	used	-	102.1	D 10 ' '	
204919 D9OXO1	Sic4a1,Ael Pde7b	1000.00	1000.00			1	5	5	103.1	Band 3 anion transport protein cAMP-specific 3' 5'-cyclic phosphodiesterase 7B	Mus musculus Mus musculus
Q9R087	Gpc6	1000.00	1000.00			1	5	5	63.1	Glypican-6	Mus musculus
211031 D8POU6	Sub1,Pc4,Rpo2tc1	1000.00	1000.00			1	4	4	14.4	Activated RNA polymerase II transcriptional coactivator p15	Mus musculus
28DQ00 28C0L8	Cog5	1000.00	1000.00			1	3	3	91.4	Conserved oligomeric Golgi complex subunit 5	Mus musculus
Q8VC31	Ccdc9	1000.00	1000.00			1	3	3	61.4	Coiled-coil domain-containing protein 9	Mus musculus
29JMG3 08R312	Tmub1,Hops Mboat2 Lncat4 Oact2	1000.00	2 47	0.0029	15 27824861	1	3	3	26.3	Transmembrane and ubiquitin-like domain-containing protein 1 I vsophospholinid acyltransferase 2	Mus musculus
A0A1D5RLM8	Gm11639	3.79	1.92	0.0265	26.08713593	1	8	9	654.2	Predicted gene 11639	Mus musculus
Q3U0L2	Ankrd33b	3.25	1.70	0.0294	26.84235247	1	8	8	53.2	Ankyrin repeat domain-containing protein 33B	Mus musculus
20C673 D4U2R1	Igst11 Herc2 Idf2 Kiaa0393 Ris	3.20	1.68	0.0248	23.65673496	1	8	8	46.1	Immunoglobulin supertamily member 11 E3 ubiquitin-protein ligase HERC2	Mus musculus Mus musculus
Q05D44	Eif5b,If2	2.79	1.48	0.0139	16.63238791	1	6	6	137.6	Eukaryotic translation initiation factor 5B	Mus musculus
23242	Gja1,Cxn-43	2.74	1.46	4E-35	5.270050708	16	135	142	43.0	Gap junction alpha-1 protein	Mus musculus
280U35	Arhgef17,Kiaa0337	2.53	1.34	0.03	26.96009055	1	8	8	221.7	Rho guanine nucleotide exchange factor 17	Mus musculus Mus musculus
Q9Z0U0	Xpr1,Syg1	2.43	1.28	0.0012	17.76751762	2	13	15	81.8	RecName: Full=Xenotropic and polytropic retrovirus receptor 1; AltName: Full=Protein	Mus musculus
258200	Kamp 2 Sh2	2.26	1.24	0.0242	22.26952201	1	7	0	01.6	SYG1 homolog; AltName: Full=Rmc-1	Management
)78IK4	Apool,Fam121a,Mic27	2.30	1.24	0.00242	21.65556978	2	15	15	29.3	MICOS complex subunit Mic27	Mus musculus
Q9JKC6	Cend1,Bm88	2.15	1.11	6E-06	18.2372205	7	84	109	15.0	Cell cycle exit and neuronal differentiation protein 1	Mus musculus
Q8VHG2 208460	Amot,Kiaa1071 Kenmal Kenma	2.15	1.11	2E-06	10.62478604	3	18	21	120.9	Angiomotin Calcium activated potassium channel subunit alpha_1	Mus musculus
Q920M5	Coro6	2.08	1.04	0.0208	30.92361688	1	8	8	52.6	Coronin-6	Mus musculus
Q99M74	Krt82,Krt2-20,Krthb2	2.05	1.03	0.0196	21.73252443	1	7	8	57.1	Keratin, type II cuticular Hb2	Mus musculus
29WTR1 297014	Trpv2,Grc Nos1	2.05	1.03	0.0002 1E=14	10.71536481	2	19	24	86.0	Transient receptor potential cation channel subfamily V member 2 Nitric oxide synthase, brain	Mus musculus
Q9CQR2	Rps21	2.01	1.01	0.0011	19.57758473	2	16	16	9.1	40S ribosomal protein S21	Mus musculus
203995	Gfap	1.99	1.00	2E-11	11.75390763	11	89	92	49.9	Glial fibrillary acidic protein	Mus musculus
28C0C4 D3UEB3	Ccser1,Fam190a,Kiaa1680 Puf60	1.96	0.97	0.0495	34.70524014	2	12	14	98.2	Serine-rich colled-coll domain-containing protein 1 Polv(ID-binding-splicing factor PUF60	Mus musculus Mus musculus
Q6PHZ2	Camk2d,Kiaa4163	1.95	0.96	0.0095	27.50533056	3	19	23	56.4	Calcium/calmodulin-dependent protein kinase type II subunit delta	Mus musculus
Q8CGY8	Ogt	1.93	0.95	0.0042	14.30719524	1	7	8	117.0	UDP-N-acetylglucosaminepeptide N-acetylglucosaminyltransferase 110 kDa subunit	Mus musculus
283870 28BO30	PhDa Ppp1r18	1.93	0.95	0.0209	19.07489568	1	6	7	65.6	PhD inger-like domain-containing protein SA Phostensin	Mus musculus Mus musculus
Q80YS6	Afap1,Kiaa3018	1.92	0.94	0.0013	20.01038991	2	16	17	80.6	Actin filament-associated protein 1	Mus musculus
Q80SY4	Mib1,Dip1,Kiaa1323,Mib	1.92	0.94	0.0106	26.72801362	2	15	16	110.1	E3 ubiquitin-protein ligase MIB1	Mus musculus
291YD3	Dep1a,Mite1,Smif	1.91	0.93	8E-08 8E-06	16.09537065	5	35	36	65.2	mRNA-decapping enzyme 1A	Mus musculus
Q80U59	Kiaa0232,D5Ertd579e	1.84	0.88	0.0003	2.889050761	1	5	7	154.8	Uncharacterized protein KIAA0232	Mus musculus
29ERG0	Lima1,D15Ertd366e,Eplin Heg1	1.84	0.88	2E-15	9.13743917	13	85	107	84.1	LIM domain and actin-binding protein 1 Protein HEG homolog 1	Mus musculus
E9Q9R9	Dlg5	1.83	0.87	8E-05	16.89434867	4	24	28	214.4	Disks large homolog 5	Mus musculus
20152	Vim	1.82	0.87	9E-21	8.634872678	24	176	200	53.7	Vimentin	Mus musculus
280 Y 17 262407	Pde4dip,Kiaa0454 Speg Apeg1 Kiaa1297	1.82	0.87	0.0182	21.31156426	5	38	38	250.6	Myomegalın Striated muscle-specific serine/threonine-protein kinase	Mus musculus Mus musculus
Q68FF0	Kiaa1841	1.80	0.85	0.0344	33.66485982	2	15	16	82.0	Uncharacterized protein KIAA1841	Mus musculus
Q8BMB0	Emsy	1.80	0.85	0.0008	22.02227193	4	29	32	135.3	BRCA2-interacting transcriptional repressor EMSY	Mus musculus
29CX84 D91VK1	Bzw2	1.79	0.84	0.0016	25.15202506	5	39	43	48.1	Basic leucine zipper and W2 domain-containing protein 2	Mus musculus Mus musculus
D3Z2H9	Tpm3-rs7	1.79	0.84	0.0048	14.85106281	1	7	8	29.0	Tropomyosin 3, related sequence 7	Mus musculus
Q5SXA9	Wwc1,Kiaa0869	1.78	0.83	7E-13	8.492669181	7	46	50	124.1	Protein KIBRA	Mus musculus
251954	Nek1	1.78	0.83	0.0219	31.82296738	3	125	22	136.7	Serine/threonine-protein kinase Nek1	Mus musculus
Q8CI32	Bag5	1.76	0.82	0.017	17.82882101	1	6	8	50.9	BAG family molecular chaperone regulator 5	Mus musculus
Q5F4S9 D6PH78	Trpm3 Kenip4 Calp Kehip4	1.75	0.81	0.0382	28.7906339	2	8	8	196.3	Transient receptor potential cation channel, subfamily M, member 3	Mus musculus
Q9WVJ5	Crybb1	1.74	0.80	0.0042	23.49681521	2	16	16	28.0	Beta-crystallin B1	Mus musculus
Q8K097	Faim2,Kiaa0950,Lfg,Lfg2,Nmp35	1.71	0.78	0.0164	30.5013515	2	20	21	35.3	Protein lifeguard 2	Mus musculus
29JL V 1 39EKR1	Ptprz1	1.71	0.77	3E-05	24.74634672	3	8 40	43	254.4	Receptor-type tyrosine-protein phosphatase zeta	Mus musculus Mus musculus
Q80TN4	Dnajc16,Kiaa0962	1.69	0.75	0.0383	34.91574117	1	16	16	89.1	DnaJ homolog subfamily C member 16	Mus musculus
260931	Vdac3	1.69	0.75	2E-05	19.36404898	10	75	80	30.8	Voltage-dependent anion-selective channel protein 3	Mus musculus
0921M4	Golga2	1.67	0.74	3E-05	15.0911013	3	22	24	113.3	Golgin subfamily A member 2	Mus musculus
Q6URW6	Myh14	1.66	0.73	4E-10	11.95723492	8	65	71	228.6	Myosin-14	Mus musculus
Q9ET43	Cldn12 Spage11 Cutes Kine0276	1.65	0.72	0.0002	15.81540082	2	16	17	27.0	Claudin-12 Orteorin A	Mus musculus
Q01815	Cacna1c,Cach2,Cacn2,Cacn11a1,Cch11a1	1.63	0.70	0.0002	16.0361501	2	16	16	240.1	Voltage-dependent L-type calcium channel subunit alpha-1C	Mus musculus
Q60952	Cep250,Cep2,Inmp	1.63	0.70	0.0039	21.31448712	2	13	15	276.8	Centrosome-associated protein CEP250	Mus musculus
299JY8	Plpp3,Lpp3,Ppap2b Apop Fam121b Mic23 Mic26	1.62	0.70	7E-09	29 60074467	3	34	38	35.2	Phospholipid phosphatase 3 MICOS complex subunit Mic26	Mus musculus
Q8JZP9	Gas211	1.62	0.69	0.002	20.63275648	2	15	16	72.4	GAS2-like protein 1	Mus musculus
Q9JJV5	Cacng3	1.61	0.69	9E-14	9.897722375	9	81	95	35.5	Voltage-dependent calcium channel gamma-3 subunit	Mus musculus
Q3UGS4	Mcrip1,Fam195b Cttribn2nl Kiaa1433	1.61	0.69	0.0056	15.45144941	3	20	22	11.1 69.8	Mapk-regulated corepressor-interacting protein 1 CTTNBP2 N-terminal-like protein	Mus musculus
008917	Flot1	1.60	0.68	1E-19	8.218862381	16	117	137	47.5	Flotillin-1	Mus musculus
Q3UH68	Limch1,Kiaa1102	1.60	0.67	3E-18	7.542224441	11	75	88	118.2	LIM and calponin homology domains-containing protein 1	Mus musculus
2512128	raok1,Klaa1361 Myo1f	1.59	0.67	0.0498	25.97215694 17.90930686	2	6	8	116.0	Unconventional myosin-If	Mus musculus
Q8BSM7	Slc43a1,Lat3	1.58	0.66	0.0035	15.89518801	1	8	8	62.6	Large neutral amino acids transporter small subunit 3	Mus musculus
Q924S8	Spred1	1.58	0.66	0.0153	20.28560223	1	7	8	50.7	Sprouty-related, EVH1 domain-containing protein 1	Mus musculus
29Q w w 1 23UJB9	Edc4	1.56	0.64	0.0002	20.07095831	6	34	48	40.6	Enhancer of mRNA-decapping protein 4	Mus musculus
Q9EQN3	Tsc22d4,Thg1pit,Tilz2	1.56	0.64	0.0105	20.53718162	1	8	8	40.0	TSC22 domain family protein 4	Mus musculus
Q70FJ1	Akap9,Kiaa0803 Gpc4	1.55	0.64	0.0069	28.26761036	4	29	32	436.2	A-kinase anchor protein 9 Glunican-4	Mus musculus
Q8BJ37	Tdp1	1.55	0.64	0.0003	29.73417665	1	8	8	68.7	RecName: Full=Tyrosyl-DNA phosphodiesterase 1; Short=Tyr-DNA phosphodiesterase 1;	Mus musculus
										EC=3.1.4; AltName: Full=Protein expressed in male leptotene and zygotene	
004750	Top1 Top-1	1.55	0.63	0.0088	28 13160400	3	22	24	00.0	spermatocytes 501; Short=MLZ-501 DNA topoisomerase 1	Mue mueculue
Q8CGU1	Calcoco1,CocoA,Kiaa1536	1.55	0.63	0.0375	34.76419328	2	16	16	77.3	Calcium-binding and coiled-coil domain-containing protein 1	Mus musculus
35TVM2	Ildr2,D1Ertd471e,Ll	1.53	0.62	3E-19	8.855401825	18	151	171	73.2	Immunoglobulin-like domain-containing receptor 2	Mus musculus
29Q774 08BUV6	Akap11 Lsm11	1.53	0.61	0.0055	24.42360369	2	16	29	208.8	A kinase (PKKA) anchor protein 11 U7 snRNA-associated Sm-like protein LSm11	Mus musculus Mus musculus
Q61321	Six4,Arec3	1.52	0.60	0.0039	28.47663994	1	7	7	82.3	Homeobox protein SIX4	Mus musculus
Q9Z140	Cpne6	1.52	0.60	0.0053	27.27761069	4	29	33	61.8	Copine-6	Mus musculus
28BJF9 280TM6	Cnmp2b R3hdm2.Kiaa1002	1.51	0.60	0.0004	21.19855737 30.86163387	5	33 23	39 24	23.9	Charged multivesicular body protein 2b R3H domain-containing protein 2	Mus musculus Mus musculus
248193	Epb41,Epb4.1,Kiaa4056	1.51	0.59	3E-06	15.97340665	5	43	48	95.9	Protein 4.1	Mus musculus
E9QAT4	Sec16a,Kiaa0310,Sec16	1.50	0.59	1E-04	19.49573726	6	40	54	254.2	Protein transport protein Sec16A	Mus musculus
250401	Oprasp1,Kiaa0443 Cbr1,Cbr	0.67	-0.59	/E-07 0.0144	14.38935363 30.34956372	6	40	46 25	30.6	Carbonyl reductase [NADPH] 1	Mus musculus
Q62523	Zyx	0.67	-0.59	0.0027	25.16543594	4	29	31	60.5	Zyxin	Mus musculus
Q9QZB7	Actr10,Act11,Actr11,Arp11	0.67	-0.59	0.0274	24.15160437	1	7	8	46.2	Actin-related protein 10	Mus musculus
008529	Capn2	0.66	-0.59	0.0019	32.3533311	3	18	22	79.9	Calpain-2 catalytic subunit	Mus musculus
28660	Nckap1,Hem2,Kiaa0587,Nap1	0.66	-0.59	0.0023	18.73901819	2	12	16	128.8	Nck-associated protein 1	Mus musculus
035683 09CWF2	Ndufa1 Tubb2b	0.66	-0.59	0.0017	20.79051728	2	16	16	8.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1 Tubulin beta-28 chain	Mus musculus
228738	Kif5c.Nkhc2	0.66	-0.59	2E-12	9.854919303	7	59	64	109.3	Kinesin heavy chain isoform 5C	Mus musculus

Q9JIS5	Sv2a,Kiaa0736,Sv2	0.66	-0.60	1E-05	16.49127257	6	- 36	47	82.6	Synaptic vesicle glycoprotein 2A	Mus musculus
Q9Z0Y1	Detn3 Mtab1	0.66	-0.60	0.0446	37.32886229	3	21	24	21.0	Dynactin subunit 3 Miteehendriel agrier homolog 1	Mus musculus
Q9QYR6	Map1a,Mtap1,Mtap1a	0.66	-0.60	5E-89	4.164991746	80	779	891	300.1	Microtubule-associated protein 1A	Mus musculus
Q9CZD3	Gars Dotm4	0.66	-0.60	0.004	16.40472004	1	8	8	81.9	Glycine-tRNA ligase	Mus musculus
P99024	Tubb5	0.66	-0.60	1E-16	8.994813297	10	98	116	49.7	Tubulin beta-5 chain	Mus musculus
Q8K1M6	Dnm1l,Drp1	0.66	-0.60	1E-09	12.75243318	10	74	86	82.7	Dynamin-1-like protein	Mus musculus
054916	Reps1	0.66	-0.61	0.0499	35.53319061	2	13	13	86.5	RalBP1-associated Eps domain-containing protein 1	Mus musculus
Q8R0A7	Kiaa0513	0.66	-0.61	5E-08	12.22193906	5	36	42	46.3	Uncharacterized protein KIAA0513	Mus musculus
P35486	Pdha1,Pdha-1	0.66	-0.61	0.0002	19.22573496	4	29	33	43.2	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	Mus musculus
Q8R191	Syngr3 Alttal (ECO:0000212IMGEMGE101485	0.65	-0.61	0.0027	12.80367486	1	7	8	24.6	Synaptogyrin-3 Proline righ AKT1 substrate 1	Mus musculus
Q9DBG3	Ap2b1,Clapb1	0.65	-0.61	5E-07	12.27665765	3	27	32	104.6	AP-2 complex subunit beta	Mus musculus
Q7TMY8	Huwe1,Kiaa0312,Ureb1	0.65	-0.61	0.0235	25.22582338	1	8	8	482.6	E3 ubiquitin-protein ligase HUWE1	Mus musculus
Q8VU6	Sfpq	0.65	-0.61	0.0008	24.6654712	4	28	32	75.4	Splicing factor, proline- and glutamine-rich	Mus musculus Mus musculus
Q6Y685	Tacc1	0.65	-0.62	0.0013	19.97484805	2	17	19	84.0	Transforming acidic coiled-coil-containing protein 1	Mus musculus
Q8R001	Mapre2	0.65	-0.62	0.0115	28.4244877	3	19	24	36.9	Microtubule-associated protein RP/EB family member 2	Mus musculus Mus musculus
P47857	Pfkm,Pfk-m,Pfka	0.65	-0.62	7E-23	8.0328783	14	173	190	85.3	ATP-dependent 6-phosphofructokinase, muscle type	Mus musculus
P04264	KRT1,KRTA	0.65	-0.62	4E-09	14.5272373	4	151	167	66.0	Kas-related protein Kab-5A SWISS-PROT:P04264 Tax Id=9606 Gene Symbol=KRT1 Keratin, type II cytoskeletal 1	Homo sapiens
025(42	A 11 1 A 10 1	0.65	0.62	6E.06	0.5((021012	-	14	17	102.0		- -
P61264	Ap1b1,Adtb1 Stx1b,Stx1b1,Stx1b2	0.65	-0.63	0.0111	9.566031017 29.60131804	3	24	24	33.2	AP-1 complex subunit beta-1 Syntaxin-1B	Mus musculus Mus musculus
Q9Z1G4	Atp6v0a1,Atp6n1	0.64	-0.63	2E-05	18.12694413	9	54	68	96.5	V-type proton ATPase 116 kDa subunit a isoform 1	Mus musculus
Q9D1G1 O9D6F9	Rab1b Tubb4a.Tubb4	0.64	-0.63	1E-06 8E-16	15.53166453 9.638276052	5	49	59 120	22.2 49.6	Ras-related protein Rab-1B Tubulin beta-4A chain	Mus musculus Mus musculus
P63101	Ywhaz	0.64	-0.64	9E-07	15.24816876	5	46	50	27.8	14-3-3 protein zeta/delta	Mus musculus
O09111 P0C7L0	Ndutb11,Np15 Wipf3.Cr16	0.64	-0.64	0.0059	26.18282633 22.46339467	3	21 35	24 37	17.4 49.5	NADH dehydrogenase  ubiquinone  1 beta subcomplex subunit 11, mitochondrial WAS/WASL-interacting protein family member 3	Mus musculus Mus musculus
Q64521	Gpd2,Gdm1	0.64	-0.64	0.0217	31.76778378	2	19	23	81.0	Glycerol-3-phosphate dehydrogenase, mitochondrial	Mus musculus
O08749 O9WTO5	Dld Akap12.Gag12.Ssecks	0.64	-0.64	1E-05 0.0215	17.55817657 32.96563539	7	49 24	53 24	54.3 180.7	Dihydrolipoyl dehydrogenase, mitochondrial A-kinase anchor protein 12	Mus musculus Mus musculus
P80318	Cet3,Cetg	0.64	-0.64	0.0031	24.3616954	4	23	26	60.6	T-complex protein 1 subunit gamma	Mus musculus
Q3TDD9 Q8K0T0	Ppp1r21,Ccdc128,Klraq1 Rtn1,Nsp	0.64	-0.64	0.0079 9E-10	29.06439763 12.84892757	3	31 82	32 93	88.3 83.6	Protein phosphatase 1 regulatory subunit 21 Reticulon-1	Mus musculus Mus musculus
Q9WVK4	Ehd1,Past1	0.64	-0.65	0.0002	18.9926849	2	24	24	60.6	EH domain-containing protein 1	Mus musculus
O88741 O3UH60	Gdap1 Dip2b Kiaa1463	0.64	-0.65	5E-08 0.0055	12.94116473	6	44	53	41.3	Ganglioside-induced differentiation-associated protein 1 Disco-interacting protein 2 homolog B	Mus musculus Mus musculus
Q9CR61	Ndufb7	0.64	-0.65	0.0078	19.13782391	1	8	9	16.3	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	Mus musculus
Q9EQF6 O9OXY6	Dpysl5,Crmp5 Ehd3 Ehd2	0.64	-0.65	5E-05 0.0017	19.29334809 20.79487866	5	50	60 16	61.5	Dihydropyrimidinase-related protein 5 EH domain-containing protein 3	Mus musculus Mus musculus
A8DUK4	Hbb-b1,Hbb-b2,Hbbt1,Hbbt2	0.63	-0.66	0.0351	36.67390913	5	29	35	15.7	Beta-globin	Mus musculus
Q6GYP7 08BW74	Ralgapa1,Garnl1,Kiaa0884,Tulip1 HIf	0.63	-0.66	9E-10 0.0167	11.35388119	7	50	60 8	229.4	Ral GTPase-activating protein subunit alpha-1 Hepatic leukemia factor	Mus musculus Mus musculus
P17182	Eno1,Eno-1	0.63	-0.66	8E-05	16.97164972	2	23	24	47.1	Alpha-enolase	Mus musculus
P97427 03UGY8	Crmp1,Dpys11,Ulip3 Arforf3 Big3 D10Bwg1379e Kiaa1244	0.63	-0.66	2E-10 0.0003	12.29460088	13	86 41	98 46	62.2	Dihydropyrimidinase-related protein 1 Brefeldin A_inhibited guaning nucleotide-exchange protein 3	Mus musculus Mus musculus
Q6ZQK5	Acap2,Centb2,Kiaa0041	0.63	-0.66	0.0003	17.43091707	2	14	16	87.2	Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2	Mus musculus
Q9D5V5	Cul5 Phactr3 Scapin1	0.63	-0.67	0.0168	17.74380188	1	6	6	91.0	Cullin-5 Phoenbatase and actin regulator 3	Mus musculus
Q922B1	Macrod1,Lrp16	0.63	-0.67	0.0356	26.10912592	1	7	8	35.3	O-acetyl-ADP-ribose deacetylase MACROD1	Mus musculus
Q9JK48 Q8R3V5	Sh3glb1,Kiaa0491 Sh3glb2 Kiaa1848	0.63	-0.67	0.0046 8E-06	16.90829842	2	9	10	40.9	Endophilin-B1 Endophilin-B2	Mus musculus
P19783	Cox4i1,Cox4,Cox4a	0.63	-0.68	5E-05	20.27259545	7	69	76	19.5	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	Mus musculus
O35250 P62631	Exoc7,Exo70 Fef1a2 Fef1al Str	0.63	-0.68	5E-05	18.14492564	5	34	38	80.0	Exocyst complex component 7 Elongation factor L-alpha 2	Mus musculus
P56399	Usp5,Isot	0.62	-0.68	2E-05	17.21876796	4	37	40	95.8	Ubiquitin carboxyl-terminal hydrolase 5	Mus musculus
Q8R313 Q8K394	Exoc6,Sec15a,Sec1511 Plo12 Kiaa1092 Ploa2	0.62	-0.69	0.0199	24.0868969	1	8	8	93.1	Exocyst complex component 6	Mus musculus
A0A338P6R8	Gm49601	0.62	-0.69	0.0003	18.92192299	2	23	24	41.9	Uncharacterized protein	Mus musculus
Q6PDL0	Dync1li2,Dncli2,Dnclic2 Nrin3 D7H11orf14	0.62	-0.69	3E-11	10.89446372	10	66	82	54.2	Cytoplasmic dynein 1 light intermediate chain 2 Nuclear recentor-interacting protein 3	Mus musculus
Q8BRK8	Prkaa2	0.62	-0.69	0.0327	27.58059041	1	8	8	62.0	5'-AMP-activated protein kinase catalytic subunit alpha-2	Mus musculus
Q62448	Eif4g2,Nat1	0.62	-0.70	6E-06	12.71447309	3	20	28	102.1	Eukaryotic translation initiation factor 4 gamma 2	Mus musculus
035382	Exoc4,Sec8,Sec811	0.62	-0.70	2E-05	13.23828219	4	19	27	110.5	Exocyst complex component 4	Mus musculus
054781 03TCU	Srpk2 Fam175h Abro1 Kino0157	0.62	-0.70	0.0329	33.35093807	2	15	16	76.8	SRSF protein kinase 2 PRISC complex subunit Abravas 2	Mus musculus
Q8VDN2	Atpla1	0.61	-0.70	9E-16	9.516212306	14	106	117	113.0	Sodium/potassium-transporting ATPase subunit alpha-1	Mus musculus
C8YR32	Loxhd1	0.61	-0.71	0.0332	25.5151337	1	7	8	235.8	Lipoxygenase homology domain-containing protein 1	Mus musculus
Q9CZS1	Aldh1b1,Aldhx	0.61	-0.71	0.0454	30.21256766	4	8	8	57.6	Aldehyde dehydrogenase X, mitochondrial	Mus musculus Mus musculus
Q61644	Pacsin1,Pacsin	0.61	-0.71	2E-05	18.16503736	6	47	57	50.6	Protein kinase C and casein kinase substrate in neurons protein 1	Mus musculus
Q8CHC4	Sept4,Phuli2 Synj1,Kiaa0910	0.61	-0.71	2E-33	6.22544737	4 26	196	219	172.6	Synaptojanin-1	Mus musculus
035926	Cdk5r2,Nck5ai	0.61	-0.72	0.0453	25.01776074	1	6	8	38.9	Cyclin-dependent kinase 5 activator 2	Mus musculus
Q8JZQ9	Atpov102,Atpob2,Vat2 Eif3b,Eif3s9	0.61	-0.72	1E-18 0.0069	8.414/5145 13.27849751	13	6	121	56.6 91.4	v-type proton A Pase subunit B, brain isoform Eukaryotic translation initiation factor 3 subunit B	Mus musculus
Q8CB44	Gramd4,Dip,Kiaa0767	0.60	-0.73	0.0231	25.10031497	1	8	8	72.3	GRAM domain-containing protein 4	Mus musculus
P11983	Tcp1,Cct1,Ccta	0.60	-0.73	2E-18 2E-15	8.972704051	11	92 80	98 87	60.4	T-complex protein 1 subunit alpha	Mus musculus
Q62167	Ddx3x,D1Pas1-rs2,Ddx3,Dead3,Erh	0.60	-0.74	5E-11	10.91785697	10	62	71	73.1	ATP-dependent RNA helicase DDX3X	Mus musculus
P13645	KR110,KPP	0.60	-0.75	0.0088	30.34321092	7	44	56	59.5	SWISS-PROT:P13645_1ax_Id=9606_Gene_Symbol=KR110_Keratin, type 1 cytoskeletal 10	Homo sapiens
P19096	Fasn	0.60	-0.75	0.0002	18.10114002	4	24	25	272.4	Fatty acid synthase	Mus musculus
Q6PCN3 P63040	Itbk1 Cplx1	0.60	-0.75	0.0013	23.56332909	2	32	38 16	141.6	Tau-tubulin kinase T Complexin-1	Mus musculus Mus musculus
P80316	Cct5,Ccte,Kiaa0098	0.60	-0.75	9E-07	15.10554271	5	45	48	59.6	T-complex protein 1 subunit epsilon	Mus musculus
P47809 088485	Map2k4, Jnkk1, Mek4, Mkk4, Prkmk4, Sek1, Dync111 Dnci1 Dncic1	0.60	-0.75	4E-07 7E-09	14.93521097	6	51	54 60	44.1	Dual specificity mitogen-activated protein kinase kinase 4 Cytoplasmic dynein 1 intermediate chain 1	Mus musculus Mus musculus
Q8BWJ3	Phka2	0.59	-0.76	0.0293	26.78871653	1	8	8	138.5	Phosphorylase b kinase regulatory subunit alpha, liver isoform	Mus musculus
Q68FL4 09ERD7	Ahcyl2 Tubb3	0.59	-0.76	0.0105 2E-26	20.51269916	1	8	8	66.9 50.4	Putative adenosylhomocysteinase 3 Tubulin beta-3 chain	Mus musculus Mus musculus
Q0GNC1	Inf2	0.59	-0.76	0.0446	30.04891962	1	8	8	138.6	Inverted formin-2	Mus musculus
Q99KJ8 P63038	Detn2 Hspd1 Hsp60	0.58	-0.78	1E-29 5E-18	6.541067989 9.442267052	18	169	189	44.1	Dynactin subunit 2 60 kDa heat shock protein mitochondrial	Mus musculus Mus musculue
P54775	Psmc4, Tbp7	0.58	-0.78	6E-10	10.42750198	7	42	50	47.4	26S proteasome regulatory subunit 6B	Mus musculus
Q9CZC8 P11499	Scm1,Kiaa0193 Hsn90ab1 Hsn84 Hen84-1 Hensh	0.58	-0.79	0.0007 4E-06	20.8395091	2	23	24	46.3	Secernin-1 Heat shock protein HSP 90.beta	Mus musculus
054774	Ap3d1,Ap3d	0.58	-0.79	7E-06	19.29309243	6	43	51	135.1	AP-3 complex subunit delta-1	Mus musculus
Q9WUM5 P42859	Suclg1 Htt Hd Hdb	0.58	-0.80	1E-29 0.0025	5.550741917	13	108	128	36.2	Succinate-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial	Mus musculus
Q9R0P9	Uchl1	0.58	-0.80	1E-06	12.74086231	3	26	31	24.8	Ubiquitin carboxyl-terminal hydrolase isozyme L1	Mus musculus
P16330	Cnp,Cnp1 Ano8 Kiaa1623 Turam16h	0.57	-0.80	3E-16	9.811805488	15	135	144	47.1	2',3'-cyclic-nucleotide 3'-phosphodiesterase	Mus musculus
Q8BGT1	Flrt3,Kiaa1469	0.57	-0.81	0.0023	4.963691556	1	5	7	72.9	Leucine-rich repeat transmembrane protein FLRT3	Mus musculus
P70336	Rock2	0.57	-0.81	9E-13	9.440778125	7	57	63	160.6	Rho-associated protein kinase 2	Mus musculus
Q91VA7	Idh3b,mCG_9915	0.57	-0.81	4E-22	6.66701991	11	88	108	42.2	Isocitrate dehydrogenase [NAD] subunit, mitochondrial	Mus musculus
Q8CBW3	Abi1,Ssh3bp1 West	0.57	-0.82	0.001	22.95091248	4	32	37	52.3	Abl interactor 1 Neuron Wickett Aldrich androme metric	Mus musculus
Q711D9	W d51	0.57	-0.82	96-05	10.41404421	2	- 21	24	34.5	incurat wiskoit-Aldrich syndrome protein	INTUS IIIUSCUIUS

007206	Do Dov	0.56	0.92	50.05	12 9504279	2	17	22	120.7	Pursuanta aerbayulasa, mitashandrial	Mue mucoulue
197700	Sent5 Pnutl1	0.56	-0.83	0.0021	20 7624795	1	15	16	42.7	Sentin_5	Mus musculus
09Z0E0	Ncdn.Kiaa0607.Sfap75	0.56	-0.83	3E-07	12.99659918	4	33	39	78.9	Neurochondrin	Mus musculus
P97452	Bop1,Kiaa0124	0.56	-0.83	0.0235	23.04880837	1	7	7	82.5	Ribosome biogenesis protein BOP1	Mus musculus
Q91XU3	Pip4k2c,Pip5k2c	0.56	-0.83	0.0078	22.11925412	2	11	13	47.3	Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma	Mus musculus
Q8CDG3	Vepip1,Veip135	0.56	-0.83	6E-05	17.79309022	4	30	32	134.5	Deubiquitinating protein VCIP135	Mus musculus
Q8BH59	Slc25a12,Aralar1	0.56	-0.84	3E-22	6.808851372	10	92	109	74.6	Calcium-binding mitochondrial carrier protein Aralar1	Mus musculus
090713	Uacrel	0.56	-0.84	0.0003	33 04465064	2	18	25	52.0	Piotein NDRO5 Cutochrome b.cl. complex subunit 1. mitochondrial	Mus musculus
O7TOD2	Тррр	0.56	-0.84	5E-19	7.892112687	13	95	114	23.6	Tubulin polymerization-promoting protein	Mus musculus
P97441	Slc30a3,Znt3	0.56	-0.84	0.0215	22.35798666	1	7	8	41.8	Zinc transporter 3	Mus musculus
O08788	Detn1	0.55	-0.85	4E-36	5.419551124	18	157	186	141.7	Dynactin subunit 1	Mus musculus
A2AGT5	Ckap5	0.55	-0.85	2E-17	8.398294525	13	90	103	225.6	Cytoskeleton-associated protein 5	Mus musculus
Q76MZ3	Ppp2r1a	0.55	-0.85	9E-11	9.25244293	7	39	48	65.3	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	Mus musculus
P32921	Wars,Wrs	0.55	-0.86	0.0063	23.8282644	2	14	16	54.4	TryptophantRNA ligase, cytoplasmic	Mus musculus
Q3TXS7	Psmd1	0.55	-0.86	0.0053	23.76258668	3	16	19	105.7	26S proteasome non-ATPase regulatory subunit 1	Mus musculus
P083/2 A6U572	Tubb40, Tubb20	0.55	-0.87	2E-15	9.124449919	7	82	90	49.8	Tubulin beta-4B chain	Mus musculus
O8RH57	Wdr48 Kiaa1449 Uafl	0.55	-0.87	0.0023	23 22394748	2	21	21	76.0	WD repeat-containing protein 48	Mus musculus
035098	Dpvsl4.Crmp3.Ulip4	0.54	-0.88	8E-07	15.09470053	7	48	55	62.0	Dihydropyrimidinase-related protein 4	Mus musculus
Q3TPX4	Exoc5,Sec1011	0.54	-0.89	9E-05	14.7032294	2	16	16	81.7	Exocyst complex component 5	Mus musculus
P46471	Psmc2,Mss1	0.54	-0.89	0.0003	16.81645404	1	16	16	48.6	26S proteasome regulatory subunit 7	Mus musculus
Q7TPD0	Ints3	0.54	-0.89	0.0002	7.080689449	1	7	8	117.9	Integrator complex subunit 3	Mus musculus
Q9Z1Z0	Uso1,Vdp	0.54	-0.90	0.0235	23.01956622	1	7	7	107.0	General vesicular transport factor p115	Mus musculus
Q8BGQ1	Vipas39,Spe39,Vipar Tubb2a Tubb2	0.54	-0.90	0.0027	20.15999544	2	54	64	20.0	Spermatogenesis-defective protein 39 homolog	Mus musculus
Q/1101019 09CR62	Slc25a11	0.53	-0.91	2E-05	17 94373952	5	42	44	34.2	Tubuin bela-2A chain Mitochondrial 2-oxoglutarate/malate carrier protein	Mus musculus
P13707	Gpd1,Gdc-1,Gdc1,Kiaa4010	0.53	-0.91	0.0232	22.93560675	1	7	8	37.6	Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic	Mus musculus
Q8C3K6	Slc5a1	0.53	-0.92	0.0345	27.99532286	1	8	8	73.4	Sodium/glucose cotransporter 1	Mus musculus
P31938	Map2k1,Mek1,Prkmk1	0.53	-0.92	6E-09	8.889779755	4	25	28	43.5	Dual specificity mitogen-activated protein kinase kinase 1	Mus musculus
Q91WD5	Ndufs2	0.53	-0.92	0.0221	24.77984025	1	8	12	52.6	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	Mus musculus
Q80UM3	Naa15,Narg1,Nat1,Tbdn-1,Tubedown	0.53	-0.93	0.0068	18.43638905	1	8	8	101.0	N-alpha-acetyltransferase 15, NatA auxiliary subunit	Mus musculus
0972V5	r pp50 Hdac6	0.53	-0.93	0.0185	25.62100568	1	8	8	125.9	Serine/inteonine-protein phosphatase 5	Mus musculus
P60670	Nploc4,Kiaa1499.Npl4	0.55	-0.93	0.0284	21.30846203	1	6	6	68.0	Nuclear protein localization protein 4 homolog	Mus musculus
Q9QXK3	Copg2	0.52	-0.93	0.0413	24.20678602	1	6	8	97.7	Coatomer subunit gamma-2	Mus musculus
Q9DB60	Fam213b	0.52	-0.94	0.0345	28.00063586	1	8	8	21.7	Prostamide/prostaglandin F synthase	Mus musculus
Q8C1B7	Sept11,D5Ertd606e	0.52	-0.94	3E-11	8.802837108	5	37	40	49.7	Septin-11	Mus musculus
P68368	Tuba4a, Tuba4	0.52	-0.94	3E-20	8.202020514	12	127	143	49.9	Tubulin alpha-4A chain	Mus musculus
P99028 008552	Uqerh Drugl2 Comp2 Ulin2	0.51	-0.96	0.0002 7E-40	7.14842087	1 20	7	8	10.4	Cytochrome b-c1 complex subunit 6, mitochondrial	Mus musculus
008555 09DCI5	Ndufa8	0.51	-0.96	7E-49 3E-17	8 46770011	29	214 80	233	20.0	Dinyuropyrimidinase-related protein 2 NADH dehydrogenase [ubiquinope] 1 alpha subcomplay subunit 9	Mus musculus
P05064	Aldoa.Aldo1	0.51	-0.98	0.0058	17.81431718	2	9	11	39.4	Fructose-bisphosphate aldolase A	Mus musculus
O08599	Stxbp1	0.51	-0.98	9E-38	5.828061239	24	216	237	67.6	Syntaxin-binding protein 1	Mus musculus
Q9CQ54	Ndufc2	0.51	-0.98	8E-09	10.49925756	4	32	39	14.2	NADH dehydrogenase [ubiquinone] 1 subunit C2	Mus musculus
P23116	Eif3a,Csma,Eif3,Eif3s10	0.50	-0.99	9E-07	14.46573521	6	39	43	161.9	Eukaryotic translation initiation factor 3 subunit A	Mus musculus
Q8VCM4	Lipt1	0.50	-0.99	0.0021	12.05548518	1	7	8	42.1	Lipoyltransferase 1, mitochondrial	Mus musculus
Q9Z185	Sept3, Sep3	0.50	-1.00	0.0002	6.68502137	1	7	8	40.0	Neuronal-specific septin-3	Mus musculus
Q8PUL/ 08BH66	Atl1 Spg3a	0.50	-1.00	7E-07	14 76347878	4	28	31	63.4	Atlastin_1	Mus musculus
099JR1	Sfxn1.F	0.50	-1.00	0.0242	25.45033434	1	8	8	35.6	Sideroflexin-1	Mus musculus
P62192	Psmc1	0.50	-1.01	2E-17	7.722487515	11	72	82	49.2	26S proteasome regulatory subunit 4	Mus musculus
Q8R366	Igsf8,Ewi2,Kct4,Pgrl	0.50	-1.01	0.0492	28.87179353	1	7	7	65.0	Immunoglobulin superfamily member 8	Mus musculus
Q99JP0	Map4k3	0.49	-1.02	0.0072	25.55208399	2	16	16	101.1	Mitogen-activated protein kinase kinase kinase 3	Mus musculus
Q9JKY5	Hip1r	0.49	-1.02	4E-09	8.640175282	4	25	26	119.4	Huntingtin-interacting protein 1-related protein	Mus musculus
055125	Nipsnapl	0.49	-1.03	6E-05	12.88180/23	2	14	15	33.4	Protein NipSnap homolog 1	Mus musculus
Q9DBP5 Q9IME5	An3b2	0.49	-1.03	2E=12	9 861604817	2	59	63	119.2	AP-3 complex subunit beta-2	Mus musculus
Q8K2B3	Sdha	0.49	-1.03	2E-16	5.849849384	6	41	54	72.6	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	Mus musculus
Q9Z2I9	Sucla2	0.49	-1.03	3E-20	7.305515844	13	90	98	50.1	SuccinateCoA ligase [ADP-forming] subunit beta, mitochondrial	Mus musculus
Q80UP3	Dgkz	0.49	-1.04	0.0062	27.11724354	4	25	31	104.0	Diacylglycerol kinase zeta	Mus musculus
Q8QZT1	Acat1	0.48	-1.06	7E-14	8.587501822	9	57	70	44.8	Acetyl-CoA acetyltransferase, mitochondrial	Mus musculus
					10 01 475 451	5			167 1		Mus musculus
Q80TJ1	Cadps,Caps,Caps1,Kiaa1121	0.48	-1.07	8E-08	12.31473431	0	36	40	155.1	Calcium-dependent secretion activator 1	Mas mascalas
Q80TJ1 Q9CQC7	Cadps,Caps,Caps1,Klaa1121 Ndufb4 Durath1 Dhat Drah1 Drahat Duba	0.48	-1.07	8E-08 8E-10	12.51475451 11.67225517 4.826450036	8	36 55 280	40 62	155.1	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 Categologic derging 1 betagen derging 1	Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 Q55131	Cachs,Caps,Caps1,Kiai1121 Ndufb4 Dync1h1,Dhc1,Dnch1,Dnchc1,Dyhc Sent7.Cdc10	0.48 0.48 0.48 0.47	-1.07 -1.07 -1.07 -1.08	8E-08 8E-10 3E-52 3E-18	12.31473431 11.67225517 4.826459936 6.512682631	8 39 6	36 55 280 56	40 62 346 61	15.1 15.1 532.0 50.5	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Sortin-7	Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 O55131 Q99KI0	Cadps,Caps,Caps1,Kiai121 Ndufb4 Dync1h1,Dhc1,Dnch1,Dnchc1,Dyhc Sept7,Cdc10 Aco2	0.48 0.48 0.48 0.47 0.47	-1.07 -1.07 -1.07 -1.08 -1.08	8E-08 8E-10 3E-52 3E-18 1E-06	12.31473431 11.67225517 4.826459936 6.512682631 16.52980855	8 39 6 12	36 55 280 56 73	40 62 346 61 86	153.1 15.1 532.0 50.5 85.5	Calcium-dependent secretion activator 1 NADH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial	Mus musculus Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 O55131 Q99KI0 P62827	Cadps,Caps,Caps1,Kiaa1121 Ndub4 Dync1h1,Dhc1,Dnch1,Dnchc1,Dyhe Sept7,Zdc10 Aco2 Ran,Rasl2-8	0.48 0.48 0.47 0.47 0.47 0.47	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05	12.31473431 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903	8 39 6 12 3	36 55 280 56 73 20	40 62 346 61 86 24	153.1 15.1 532.0 50.5 85.5 24.4	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran	Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 O55131 Q99KI0 P62827 O35143	Cadps. Caps. Caps. (App. 1, Kuar 1/27 Ndufb4 Dync1h1,Dhc1,Dnch1,Dnch1,Dyhc Sept7,Cdc10 Aco2 Ran,Rasl2-8 Atpif1,Atpi,If1	0.48 0.48 0.47 0.47 0.47 0.47 0.47	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05	12.31473431 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 15.98003199	8 39 6 12 3 3	36 55 280 56 73 20 23	40 62 346 61 86 24 24 24	153.1 15.1 532.0 50.5 85.5 24.4 12.2	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial	Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 055131 Q99K10 P62827 035143 P57746 O0W(4)	Caepes, Lapes, L	0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21	12.314/3431 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 15.98003199 8.977145815	8 39 6 12 3 3 2	36 55 280 56 73 20 23 14	40 62 346 61 86 24 24 24 20 00	153.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 25.4	Calcium-dependent secretion activator 1 NADH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D	Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 055131 Q99K10 P62827 035143 P57746 Q91V61 Q91V92	Cadps, Caps, Caps, Caps, Chan 121 Nuth4 Dynch1, Dhcl, Dnch1, Dnchc1, Dyhc Sept7, Cdc10 Acc2 Ran, Ras12-8 Atpif1, Atpi, If1 Atpif1, Atpi, If1 Atpiv1, Atp6m, Vatd Sfon 3 Aclu	0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.10 -1.10	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21 0.011	12.514/3431 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 15.98003199 8.977145815 6.686427514 20.73857494	8 39 6 12 3 3 2 11	36 55 280 56 73 20 23 14 80 8	40 62 346 61 86 24 24 24 20 90 8	153.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquionen] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideor0lexin-3 UB criteria embres	Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9JHU4 055131 Q99KI0 P62827 035143 P57746 Q91V61 Q91V92 Q80VY9	Cadips, Capp, Capp	0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.10 -1.10 -1.11	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21 0.011 0.0076	12.514/3431 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 15.98003199 8.977145815 6.686427514 20.73857494 18.98221241	8 39 6 12 3 3 2 11 1 1	36 55 280 56 73 20 23 14 80 8 8	40 62 346 61 86 24 24 24 20 90 8 8	153.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4 119.7 78.3	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 ATP-citrate synthase Plattice ATPAetergendent RNA helicase DHX33	Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus
Q80TJ1 Q9CQC7 Q9HU4 055131 Q99Kl0 P62827 035143 P57746 Q91V61 Q91V92 Q80VY9 Q9JIG7	Cadpis, Lapis, L	0.48 0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.46 0.46	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.10 -1.10 -1.11 -1.11	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21 0.011 0.0076 0.0128	12.314/343 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 15.98003199 8.977145815 6.686427514 20.73857494 18.98221241 24.44748484	3 8 39 6 12 3 3 2 11 1 1 1	36 55 280 56 73 20 23 14 80 8 8 8 11	40 62 346 61 86 24 24 20 90 8 8 8 11	1531 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4 119.7 78.3 70.8	Calcium-dependent secretion activator 1 NADH dehytorgenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type protein ATPase subunit D Sideroflexin-3 ATP-citrate synthase Patative ATP-dependent RNA helicase DHX33 Colled-coll domain-containing protein 22	Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus Mus musculus
Q80711 Q9CQC7 Q9HU4 055131 Q99KI0 P62827 035143 P57246 Q91V61 Q91V92 Q80YY9 Q9107 Q9167 Q148V7	Cadps, Laps,	$\begin{array}{c} 0.48\\ 0.48\\ 0.48\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ \end{array}$	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.10 -1.10 -1.11 -1.11 -1.11	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21 0.011 0.0076 0.0128 0.006	12.3147343 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 8.977145815 6.686427514 20.73857494 18.98221241 18.98221241 24.44748484 24.474947585	8 39 6 12 3 3 2 11 1 1 1 1 2	36 55 280 56 73 20 23 14 80 8 8 8 11 16	40 62 346 61 86 24 24 20 90 8 8 8 11 16	153.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4 119.7 78.3 70.8 134.6	Calcium-dependent secretion activator 1 NADH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 TP-cirtate synthase Patative ATP-dependent RNA helicase DHX33 Colled-coil domain-containing protein 22 RAB11-binding protein RELCH	Mus musculus Mus musculus
Q807J1 Q9CQC7 Q9HU4 OS5131 Q99K0 P62827 O35143 P57746 Q91V61 Q91V92 Q80VY9 Q9JIG7 Q148V7 Q148V7	Cadigk_dapk_dapk_tapk_tapk_tapk_tapk_tapk_tapk_tapk_t	$\begin{array}{c} 0.48\\ 0.48\\ 0.48\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ \end{array}$	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.10 -1.10 -1.11 -1.11 -1.11 -1.11 -1.12 -1.13	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 6E-06 6E-06 0.0112 0.0076 0.0128 0.006 6E-09	12.314/343 11.67225517 4.826459936 6.512682631 16.52980855 13.79563903 15.98003199 8.977145815 6.686427514 20.73857494 18.98221241 18.98221241 24.44748484 24.47494885 9.859837859	8 39 6 12 3 3 2 11 1 1 1 1 2 4	36 55 280 56 73 20 23 14 80 8 8 8 11 16 29	40 62 346 61 86 24 24 20 90 8 8 8 11 16 32	153.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4 119.7 78.3 70.8 134.6 79.8	Calcium-dependent secretion activator 1 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 ATP-citrate synthase Putative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-subquince oxidoreductase 75 kDa subunit, mitochondrial	Mus musculus Mus musculus
Q&0T11 QQ0FUC7 QQ0FUC7 QQ9RU4 055131 QQ98K0 P62827 QQ9K0 Q91843 Q91V61 QQ1V92 Q80VY9 Q01V92 Q48V7 Q148V7 Q148V7 Q148V7 Q01VD9 Q01D72 Q00F062	Cadjek, Japk, Lapk, Lapk	$\begin{array}{c} 0.48 \\ 0.48 \\ 0.48 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.$	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.10 -1.10 -1.10 -1.11 -1.11 -1.12 -1.13 -1.15 -1.5	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 6E-06 5E-21 0.011 0.0076 0.0128 0.006 6E-09 5E-05 3E-05	12.314/343 11.67225517 4.826459936 6.512682631 16.52980855 6.5860303 15.98003199 8.977145815 6.686427514 20.73857494 18.98221241 24.74947885 9.859837859 12.44316736	8 39 6 12 3 3 2 11 1 1 1 1 2 4 4 2 2	36 55 280 56 73 20 23 14 80 8 8 8 11 16 29 14	40 62 346 61 86 24 24 20 90 8 8 8 8 11 16 32 22 22	15.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4 119.7 78.3 70.8 134.6 79.8 28.1 29.4	Calcium-dependent secretion activator 1 NADH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 ATP-cirate synthase Patative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-subiquinone oxidoreductase 75 KDa subunit, mitochondrial Gutamine amidoransferse-like class 1 domain-containing protein 34, mitochondrial	Mus musculus Mus musculus
Q80711 Q9CQC7 Q9HU4 055131 Q99KI0 P62827 035143 B57746 Q91543 Q91542 Q80759 Q9167 Q9167 Q9167 Q9167 Q9167 Q9172 Q9D172 Q9D172 Q9D72	Cadge, Lape,	$\begin{array}{c} 0.48 \\ 0.48 \\ 0.48 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.$	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.09 -1.10 -1.10 -1.10 -1.11 -1.11 -1.11 -1.12 -1.13 -1.15 -1.15	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21 0.011 0.0076 6E-09 5E-05 3E-05 3E-05 0.0011	12.3147343 11.67225517 4.826459936 6.512082631 16.52980855 13.79563903 15.98003199 8.977145815 6.686427514 20.73857494 8.98221241 24.4474884 24.74947885 9.859837859 9.244316736 12.28838062 12.44316736	3         8           39         6           12         3           3         2           11         1           1         1           2         4           2         2	36 55 280 56 73 20 23 14 80 8 8 8 11 16 29 14 15 11	40 62 346 61 86 24 24 20 90 8 8 8 11 16 32 22 16	15.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 35.4 119.7 78.3 70.8 134.6 79.8 28.1 39.6 666.6	Calcium-dependent secretion activator 1 NADH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibiting, mitochondrial V-type proton ATPase subunit D Sideroffexin-3 TP-cirate synthase Patative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-Lubiquinone oxidoreductase 75 kDa subunit, mitochondrial Socirate dehydrogenase [NAD] subunit alpha, mitochondrial Socirate dehydrogenase [NAD] subunit alpha, mitochondrial Socirate dehydrogenase [NAD] subunit alpha, mitochondrial	Mus musculus Mus musculus
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2\\ 2\\ 2\\ 2\\ 6\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	36 55 280 56 73 20 23 14 80 8 8 8 11 16 29 14 15 11 14 36 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	40 62 346 61 86 24 20 90 8 8 8 11 16 32 22 22 16 14 14 16 44 8 8 8 8 8 8 8	135.1 15.1 15.1 15.2 24.4 12.2 28.4 35.4 119.7 78.3 70.8 134.6 79.8 28.1 39.6 66.6 30.1 42.8 91.7 51.1 24.8	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NoDH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate bydratase, mitochondrial GTP-bindrig nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 ATP-citrate synthase Patatwa ATP-dependent RNA helicase DHX33 Colled-coil domain-containing protein 22 RAB11-binding protein RELCH NDH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial Socitarte dehydrogenase [NAD] subunit tapha, mitochondrial Socitarte dehydrogenase [NAD] subunit apha, mitochondrial Socitarte 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134.6 66.6 30.1 42.8 91.7 51.1 24.8 91.7 51.1 24.8	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NoDH dehydrogenase [lubiquinone] 1 heats subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Septin-7 GTP-sinding nuclear protein Ran ATPase inhibitor, mitochondrial V-type protein ATPase subunit D Sideroflexin-3 ATP-citrate synthase Putative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-ubitquinone oxidoreductase 75 kDa subunit, mitochondrial Glutamine amidotransferase-like class 1 domain-containing protein 34, mitochondrial Glutamine amidotransferase-like class 1 domain-containing protein 34, mitochondrial Socitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial Socitrate Societae 2 Collagen, type XXII, alpha 1 Microtubula secietae for the subunit text	Mus musculus Mus musculus
Q&0711 Q9CQC7 Q9HU4 Q9CQC7 Q9HU4 OS5131 Q99K0 DF62827 O35143 D57746 Q91V61 Q91V92 Q9U79 Q9107 Q91V92 Q90V79 Q9107 Q91V92 Q90V79 Q9107 Q91V7 Q9D172 Q9D272 Q9D272 Q9D272 P70404 Q9EQH3 Q9WTL7 E9Q7P1 P10637 Q9WTL7 E9Q7P1	Cadejs, Lapjs, L	0.48 0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.46 0.46 0.46 0.46 0.46 0.46 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.44 0.44 0.44 0.43 0.43	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.09 -1.09 -1.10 -1.10 -1.11 -1.11 -1.12 -1.13 -1.15 -1.15 -1.15 -1.15 -1.16 -1.16 -1.17 -1.17 -1.17 -1.18 -1.19 -1.20 -1.21	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 6E-06 6E-06 6E-06 0.0118 0.0017 0.0128 0.006 6E-09 5E-05 3E-05 0.0012 2E-13 0.0001 0.007 0.0484 0.0467 8E-85 0.0097	12 147,9431 11 6722551 6 512682631 16 52980855 13 7956303 15 98003199 8 977145815 6 668427514 20 73857494 18 98221241 24 74947885 9 859837859 12 44316736 12 28838062 12 48542927 13 68542927 14 67644467 4 6764467 12 28838062 13 68452927 14 6764467 14 6764467 13 081625795 18 61019626 30 8002895 30 468911933 14 4184711 24 15628142 14 5628142 14 5628142 14 5628142 14 5628142 14 5628142 14 5628142 14 5628142 15 685827 14 5628142 15 685827 14 5628142 14 5628142 14 5628142 14 5628142 14 5628142 14 5628142 14 5628142 15 685827 14 5628142 14 5628142	$\begin{array}{c} 3\\ 8\\ 39\\ 6\\ 12\\ 3\\ 3\\ 2\\ 11\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 6\\ 6\\ 1\\ 1\\ 1\\ 1\\ 32\\ 2\\ 2\end{array}$	36           55           280           56           73           20           23           14           80           8           11           16           29           14           15           11           14           366           8           8           8           8           8           8           8           20           21           223           23           24           25           26           27           28           29           211           22           23           24           25           26           27           281           212	40 62 346 61 86 24 24 20 90 8 8 8 8 11 16 32 22 22 16 14 16 14 16 44 8 8 8 8 8 8 8 351 12	135.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 12.2 28.4 119.7 78.3 70.8 134.6 79.8 28.1 39.6 66.6 66.3 0.1 42.8 91.7 51.1 24.8 159.9 76.2 81.0	Calcium-dependent secretion activator 1 NADH dehytogenase [lubiquinon] 1 heta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hytortase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibiting, mitochondrial V-type proton ATPase subunit D Sideroffexin-3 T-P-cirate synthase Putative ATP-dependent RNA helicase DHX33 Colied-coil domain-containing protein 22 RAB11-binding nuclear protein Ran ATP-cirate synthase Colied-coil domain-containing protein 24 RAB11-binding protein RELCH NADH-eubiquinone oxidoreductase 75 kDa subunit, mitochondrial Isocirate dehydrogenase [NAD] subunit apha, mitochondrial Isocirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Socirate dehydrogenase [NAD] subunit 2, mitochondrial Socirate dehydrogenase [NAD] subunit 3, mitochondrial Socirate dehydrogenase [NAD] subunit 3, mitochondrial Socirate dehydrogenase [NAD] subunit 3, mitochondrial Socirate dehydrogenase [NAD] subunit 4, mitochondrial Socirate dehydrogenase [NAD] subunit 3, mitochondrial	Mus musculus Mus musculus
Q&0T11 Q&0T11 QOPCC7 QOPCC7 QOPCC7 QOPCC7 QOPCC7 QOPSC0 QOPSC0 QOPSC0 QOPSC0 QOPSC0 QOPSC0 QOPSC0 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 QOPCC2 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-1.10 -1.11 -1.11 -1.11 -1.11 -1.12 -1.15 -1.15 -1.15 -1.15 -1.15 -1.15 -1.16 -1.16 -1.16 -1.17 -1.17 -1.17 -1.19 -1.20 -1.21 -1.21 -1.21	8E-08 8E-10 3E-52 3E-18 1E-06 2E-05 4E-05 6E-06 5E-21 0.011 0.0076 0.0128 0.006 6E-09 5E-05 3E-05 0.0012 0.0002 2E-13 0.0001 0.0001 0.0007 0.0484 8E-85 0.0097 6E-05	12 31473431 11.6722551 6.512682631 16.52980855 13.79563903 6.512682631 13.79563903 6.512682631 13.79563903 8.977145815 6.686427514 24.44748484 24.74847585 24.44748484 24.74847585 24.44748484 24.74847585 24.28838062 12.28838062 12.28838062 12.28838062 12.28838062 12.28838062 12.28838062 12.28838062 13.61019026 13.045891953 3.143184711 24.15628142 17.0295133 3.143184771 12.2515281 24.17025142 17.0295133 3.143184771 12.2515284 17.0295133 3.143184771 12.2515284 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 17.0295133 3.143184771 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Q91547 Q91547 Q91547 Q91547 Q91547 Q91547 Q9	Cadegs, Capps, Capps, Lapps, Capps, C	$\begin{array}{c} 0.48 \\ 0.48 \\ 0.48 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.47 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.46 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.45 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 0.43 \\ 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      8           8           8           281           12           27           31	40 62 346 61 86 24 24 24 24 20 8 8 8 8 11 16 32 22 22 16 14 16 14 44 8 8 8 8 8 8 351 12 23 4 33	135.1           15.1           532.0           50.5           85.5           24.4           12.2           28.4           35.4           119.7           78.8           35.4           119.7           78.8           39.6           66.6           30.1           24.8           139.6           66.6           30.1           24.8           159.9           76.2           81.0           115.5           49.6	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NoDH dehydrogenase [lubiquinone] 1 heats subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Septin-7 Arbase inhibitor, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-tyne proton ATPase subunit D Sideroflexin-3 ATP-citrate synthase Patative ATP-dependent RNA helicase DHX33 Colled-coil domain-containing protein 22 RAB11-binding protein REI.CH NADH-ubitydiquinone oxidoreductase 75 kDn subunit, mitochondrial Glatamine amidotransferase-like class 1 domain-containing protein 34, mitochondrial Socirate dehydrogenase [NAD] subunit galha, mitochondrial Socirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Socirate dehydrogenase [NAD] subunit applex 1, mitochondrial Vacuolar protein string-associated protein 35 RuvB-like 2 Acyl-protein thioesterase 2 Collagent, type XXII, alpha 1 Microtubuleassociated protein tau Exocyst complex component 8 Rap gaunine nucleotide exchange factor 4 Septin-6	Mus musculus Mus musculus
Q80711 Q9CQC7 Q9HU4 Q9CQC7 Q9HU4 OS5131 Q99KI0 P62827 O35143 P57746 Q91V61 Q91V92 Q80VY9 Q9II07 Q91V92 Q80VY9 Q9II07 Q91V92 Q90D72 Q9D172 Q9DC72 Q9DC72 Q9DC72 Q9DC72 Q9DC72 P70404 Q9EC013 Q9WTLM5 Q9WTLM5 Q9WTL7 P10637 Q9FC7 Q9EQ13 Q9R114 Q9FEV3	Cadegs. (app. C. app.	0.48 0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.46 0.46 0.46 0.46 0.46 0.46 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43	-1.07 -1.07 -1.07 -1.08 -1.08 -1.09 -1.09 -1.09 -1.09 -1.10 -1.10 -1.10 -1.10 -1.11 -1.11 -1.11 -1.13 -1.15 -1.15 -1.15 -1.15 -1.15 -1.16 -1.16 -1.17 -1.17 -1.17 -1.17 -1.18 -1.19 -1.21 -1.21 -1.21 -1.23 -1.23 -1.23	8E-08           8E-10           3E-52           3E-18           1E-06           2E-05           3E-18           6E-06           6E-06           6E-07           0.011           0.007           0.012           0.012           0.012           0.0012           2E-13           0.0002           2E-13           0.0007           0.0484           0.0047           0.0097           5E-10	12 147,9431 11 6722551 6 512682631 16 52980855 13 79563936 6 512682631 15 98003199 8 977145815 6 686427514 20 73857494 18 98221241 24 74947858 9 859837859 12 44316736 12 4387494 12 74947858 12 44316736 12 28838062 12 44316736 12 28838062 12 44316736 12 28838062 12 44316736 12 28838062 13 646795623 13 41382712 14 316741 14 31674 14 31674	3 8 39 6 12 3 3 2 2 111 1 1 1 1 2 2 2 2 2 2 2 2	36           35           280           55           280           56           73           20           23           14           80           8           11           16           29           14           15           11           14           36           8           8           281           127           31           27	40 62 346 61 24 24 20 90 8 8 8 8 8 8 8 8 8 11 16 32 22 16 14 16 14 44 8 8 8 8 8 8 351 12 34 33 28	135.1 15.1 15.1 532.0 50.5 85.5 24.4 12.2 28.4 119.7 78.3 35.4 119.7 78.8 35.4 119.7 78.8 39.6 66.6 30.1 42.8 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 91.7 51.1 24.8 159.9 159.5 51.5 51.5 51.5 51.5 51.5 51	Calcium-dependent secretion activator 1 Septin-7 Aconitate hydratase, mitochondrial GrIP-binding nuclear protein Ran ArDase inhibitor, mitochondrial GrIP-binding nuclear protein Ran ArDase inhibitor, mitochondrial V-type proton ArDase subunit D Sideroffexin-3 ArD-scirate synthase Putative ArD-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial Glutamine amidotransferase-Ike class 1 domain-containing protein 32 RAB11-binding trotein RELCH NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial Glutamine amidotransferase-Ike class 1 domain-containing protein 32, mitochondrial Exacarotic translation initiation factor 3 subunit L NADH dehydrogenase [NAD] subunit gamma 1, mitochondrial Socirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Naucolar protein sorting-associated protein 35 Rav4-Ite 2 Acyl-protein thioseterase 2 Collagen, type XXII, alpha 1 Microtubule-associated protein 14 Rap gunnie nucleotide exchange factor 4 Septin-6 WASWASL-interacting protein family member 2	Mus musculus Mus musculus
Q80T11 Q90FUC7 Q90FUC7 Q90FUC7 Q99FUC V55131 Q90FUC V5227 Q91V51 Q91V51 Q91V51 Q91V51 Q91V52 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q91V59 Q90FC2 P70404 Q9EQ71 Q90FUT2 P70404 Q9EQ71 Q90FUT3 Q90FUT5 E907P1 P10637 Q9FQ7 Q9EQ26 Q97F13 P10637 Q9FQ7 Q9EQ26 Q97F13 P10637 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 Q9FQ7 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Q80711 Q9CQC7 Q9HU4 Q9CQC7 Q9HU4 OS5131 Q9PKI0 DF62827 O35143 D57746 G91V61 Q91V92 Q9U79 Q9U79 Q9U79 Q9U79 Q9U77 Q148V7 Q9D77	Cadgk.dps,Caps.Laps.Laps.Laps.Laps.Laps.Laps.Laps.L	$\begin{array}{c} 0.48\\ 0.48\\ 0.48\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.47\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.46\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.43\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 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   0.0002         2E-13           0.0007         0.00484           0.0007         0.00484           0.0007         5E-10           0.0007         6E-05           5E-10         0.0007           0.0084         0.0467           0.0097         75E-10           0.00156         0.0156           0.0156         1E-20	12 147,9431 11 6722551 6 512682631 16 52980855 13 79563936 6 512682631 15 98003199 8 977145815 6 686427514 20 73857494 18 98221241 24 74947885 9 859837859 12 44316736 12 4387494 12 74947855 18 61019626 30 8062895 12 44316736 12 28838062 12 4834075 18 61019626 30 8062895 13 4436824927 14 86704662 14 8670466 14 8670666 14 867066	3           8           39           6           12           3           2           11           1           2           2           2           6           1           1           1           2           2           6           1           1           32           2           4           32           2           4           7           2           8       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     51.1           24.8           91.7           51.1           24.8           91.7           51.1           24.8           91.7           51.1           24.8           91.7      51.1           24.8           91.7           51.1           24.8           91.0           1115.5           92.8           12.4           50.1           9.8           88.5	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NoHH dehydrogenase [lubiquinone] 1 heats subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 ATP-cirate synthase Putative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-abiquinone oxidoreductase 75 kDa subunit, mitochondrial Gutamine amidotransferase-hile class 1 domain-containing protein 3 RuvB-1ke 2 NADH abiquinone oxidoreductase 75 kDa subunit, mitochondrial Gutamine amidotransferase-hile class 1 domain-containing protein 3 RuvB-1ke 2 Acyl-protein thioesterase 2 Collagen, type XXII, alpha 1 Microtubul-associated protein 13 Rap amine nucleotide exchange factor 4 Septin-6 WASWASL-interacting protein family member 2 Cytochrome c-diadase subunit 6A1, mitochondrial Evapatoreane Cytochrome b-c1 complex subunit 8 Rap Baunien Rule subunit 8 Rabenosyn-5	Mus musculus Mus musculus
Q80TJ1 Q90FQC7 Q91RU4 055131 Q99K00 F62827 Q91K01 Q91V61 Q91V92 Q91V92 Q91V92 Q91V92 Q91V92 Q91V99 Q91V99 Q91172 Q91K07 Q91VD99 Q9172 Q91K07 Q91K12 Q90FQ2 Q91K12 Q90FQ2 Q90FQ2 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 Q90FQ3 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0.0097         9E-18           9E-18         5E-01           1E-20         0.0156           0.0248         1E-20           0.0249         1E-20	12 3147,3431 11.6722551 6.512682631 6.512682631 5.98003199 8.977145815 6.668427514 20.78857494 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.7494784584 24.74947855 24.75628142 17.722128111 24.15628142 17.72212811 17.0255133 3.143184771 7.727212811 17.0255133 3.143184771 7.727212811 17.0255133 3.143184771 7.727212811 17.0255133 2.60786628 8.0206005 7.727212811 17.0255133 2.60786628 8.0206005 7.727212811 17.0255133 2.60786628 8.0206005 7.727212811 17.0255133 2.60786628 8.0206005 17.727212811 17.0255135 2.60786628 8.0206005 17.727212811 17.0255135 1.63184571 17.0255135 1.63184571 1.63184575 1.63184575 1.63184575 1.63184575 1.63184575 1.63184575 1.63184575 1.63184575 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27           31           27           31           27           31           27           31           26           12	40 62 346 61 24 24 20 90 8 8 8 8 8 8 8 8 8 8 10 16 14 16 14 16 14 44 8 8 8 8 8 8 351 12 22 26 6 6 15 6 2 6 16	133.1           15.1           15.1           15.1           50.5           85.5           24.4           112.2           28.4           35.4           119.7           70.8           370.8           134.6           79.8           30.6           666.6           30.1           42.8           139.6           666.6           30.1           42.8           159.9           76.2           81.0           115.5           49.6           46.3           12.4           50.1           9.8           88.5           35.3	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NoDH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Septin-7 Aconitate hydratase, mitochondrial GTP-bindrig nuclear protein Ran 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NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit alpha, mitochondrial Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit gamma Eukaryotic translation initiation factor 3 subunit I. NADH dehydrogenase [NAD] subunit gamma Eukaryotic translation initiation factor 3 subunit I. 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35.3           13.7           33.4           136.6           46.8           84.8           84.8           45.2           191.6           45.2	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NoHH dehydrogenase [lubiquinone] 1 heats subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial Cytope proton ATPase subunit D Sideroflexin-3 ATP-citrate synthase Patative ATP-dependent RNA helicase DHX33 Colled-coil domain-containing protein 22 RAB11-binding protein REI.CH NADH-ubiquinone oxidoreductase 75 kDn subunit, mitochondrial Glatamine amidotransferase-like class 1 domain-containing protein 34, mitochondrial Socirate dehydrogenase [NAD] subunit galami. mitochondrial Socirate dehydrogenase [NAD] subunit galami. 1 mitochondrial Socirate dehydrogenase [NAD] subunit galami. 1 mitochondrial Socirate dehydrogenase [NAD] subunit galami. 1 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        8E-00           0.012         8E-00           0.012         8E-01           0.0016         8E-05           0.0017         8E-05           0.0012         8E-05           0.0012         8E-05           0.0012         8E-05           0.0012         8E-05           0.0002         2E-03           0.0001         0.0047           0.0045         2E-09           0.0025         2E-09           0.0047         7E-10           0.0051         1E-20           0.0061         1E-20           0.0051         1E-20           0.0051         1E-20           0.0051         0.0051           0.0051         0.0051           0.0051         0.0047           0.0051         0.0047           0.0051         0.0047           0.0051         0.0031           0.0032         0.0025	12 147,2431 11 (72251) 4 826459936 6 5.12682631 6 52980855 16 52980855 13 7956393 15 98003199 8 977145815 6 6.686427514 20,73857494 8 9822124 4 474947585 9 8922124 4 474947585 9 8922124 14 474947585 9 8922124 12 43416736 12 28338062 12 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          45.2           97.2           33.3           46.8           845.8           13.8           84.8           45.2           13.3.5	Calcium-dependent secretion activator 1 Children	Mus musculus Mus musculus
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 0.012         2E-01           0.012         2E-03           0.0012         0.002           0.0012         0.002           0.0012         0.002           0.0012         0.001           0.0012         0.001           0.0001         0.002           0.0012         2E-13           0.0001         0.007           0.00467         3E-05           0.007         0.0484           0.0031         0.0033           0.00431         0.00431           0.00440         0.0031           0.00440         0.0031           0.00440         0.0031           0.00440         0.00412           0.00440         0.00414           0.00440         0.00414           0.00414         0.00414           0.00414         0.0041	12 147,2431 11.6722551 6.512682631 16.52980855 13.79563903 6.512682631 15.98003199 8.977145815 6.686427514 24.44748484 24.74847585 9.98231241 24.44748484 24.74847585 9.9829324 12.44316736 12.28838062 15.84824927 14.67644467 6.990205931 2.28838062 15.84824927 14.67644467 6.990205933 3.143184771 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  13           27           75           13           27           75           13           27           75           13           27           75           70           19           7           7           7           7           8           6           34	40         40           40         62           346         61           86         24           20         8           81         11           16         32           22         22           16         14           16         32           12         26           14         8           8         8           331         32           22         16           14         16           8         8           3351         12           34         33           28         85           15         15           7         7           8         8           111         12           1153         8           6         18	135.1           532.00           50.5           24.4           12.2           28.4           12.2           28.4           12.2           28.4           119.7           70.8           35.4           19.7           70.8           30.1           34.6           66.6           30.1           54.4           42.8           91.7           51.1           52.4           42.8           91.7           51.1           59.9           76.2           49.6           91.7           51.1           50.8           88.5           312.4           46.3           12.4           50.8           88.5           313.7           97.2           33.4           46.8           45.2           91.6           13.8           35.8           35.8           35.8           35.8 <td>Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 Septin-7 Sept</td> <td>Mus musculus Mus musculus</td>	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 Septin-7 Sept	Mus musculus Mus musculus
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       2E-00           0.0047         1E-20           0.0015         0.00397           0.0016         0.0030           0.00097         0.0051           0.0009         0.0051           0.0009         0.00112           0.0012         0.00341           0.0023         2E-05           0.0023         2E-05           0.0023         0.0037	12 147,2431 11 6722551 6 512682631 6 52980855 15 98003199 8 977145815 6 6512682631 15 98003199 8 977145815 6 65427514 2 4 474947848 2 4 74947585 9 89221241 2 4 47494784 2 4 74947585 9 89221241 2 4 83982782 1 2 43416736 1 2 28338062 1 2 4834927 1 2 4834072 1 2 497247 1 2 497747 1 2 4	3           8           39           6           12           3           2           11           1           1           1           2           2           6           1           1           1           2           2           6           1           1           32           2           4           3           4           7           2           4           3           2      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         78.3           35.4           119.7           78.3           35.4           119.7           70.8           134.6           66.6           66.6           66.6           66.6           61.1           24.8           30.1           42.8           159.9           76.2           81.0           115.5           35.3           12.4           50.1           9.8           88.5           35.3           33.4           46.8           46.2           13.7           37.4           35.8           62.4           51.3	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 NDH dehydrogenase [lubiquinone] 1 beta subcomplex subunit 4 Cytoplasmic dynein 1 heavy chain 1 Septin-7 Septin-7 Acontate bydratase, mitochondrial GTP-bindrig nuclear protein Ran ATP-actinibities, mitochondrial V-type proton ATPase subunit D Sideorflexin-3 ATP-critite synthase Patative ATP-dependent RNA helicase DHX33 Colled-coil domain-containing protein 22 RAB11-bindrig protein RELCH NDH-tubiquinone 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      111           14           36           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           9           7           11           132           8           6           36           36 <t< td=""><td>40         40           40         62           346         61           86         24           20         8           8         11           16         32           222         16           14         46           8         8           8         8           8         8           333         28           344         33           351         15           62         66           16         7           7         8           8         38           8         6           38         6           38         6           38         26</td><td>135.1           15.1           532.00           85.5           24.4           35.4           112.2           28.4           35.4           119.7           70.8           35.4           119.7           70.8           134.6           66.6           30.1           42.8           39.6           66.6           30.1           42.8           15.9           76.2           84.0           115.5           50.1           12.4           84.0           115.5           35.3           13.7           33.4           45.2           13.8           35.8           62.4           51.3           31.0           46.2           13.8           35.8           62.4</td><td>Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 Septin-7 Septin-7 Septin-7 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial V-type proton ATPase subunit D Sideroflexin-3 ATP-cirate synthase Patative ATP-dependent RNA helicase DHX33 Colled-coil 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     8           333         28           344         33           351         15           62         66           16         7           7         8           8         38           8         6           38         6           38         6           38         26	135.1           15.1           532.00           85.5           24.4           35.4           112.2           28.4           35.4           119.7           70.8           35.4           119.7           70.8           134.6           66.6           30.1           42.8           39.6           66.6           30.1           42.8           15.9           76.2           84.0           115.5           50.1           12.4           84.0           115.5           35.3           13.7           33.4           45.2           13.8           35.8           62.4           51.3           31.0           46.2           13.8           35.8           62.4	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 Septin-7 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Qe0T11 Qe0CC7 QPIRU4 QOFUCC7 QPIRU4 QOFUCC7 QPIRU4 QOFUCC7 QPIRU4 QE0X131 QPONT QPONT2 QPONT4 QPIV14 QPIV15 QPIV17 QPUT2 QPUT3 QPUT3 QPUT3 QPUT3 QPUT3 QPUT404 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT3 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 QPUT4 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0.0051           0.0051           0.00248           0.0021           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031 <td>12 3147,3431 11.6722551 6.512682631 6.512682631 15.98003199 8.977145815 6.68427514 24.44748484 24.7947585 24.447484784 24.7947585 24.447484784 24.7947585 24.447484784 24.7947585 24.447484784 24.7947585 24.45281467 6.902205943 8.081625795 15.84824927 12.28838062 15.84824927 12.28838062 15.84824927 12.28838062 15.84824927 12.28838062 15.84824927 12.4416763 12.28838062 15.84824927 12.4416764 12.28838062 15.84824927 12.4416764 12.28838062 15.84824927 12.4416764 12.28838062 15.84824927 12.4416764 12.28838062 15.84824927 12.4416764 12.28838062 15.84824927 12.4416764 12.28838062 13.5880756 24.15628142 13.5580756 25.51647907 17.799685752 20.85452128 20.352158011 13.5580756 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      12           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27           31           27</td> <td>40 40 62 346 61 86 24 24 20 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td><math display="block">\begin{array}{c} 135.1\\ 15.1\\ 15.1\\ 15.1\\ 15.1\\ 25.2\\ 24.4\\ 35.4\\ 35.5\\ 24.4\\ 35.4\\ 35.4\\ 35.4\\ 35.4\\ 119.7\\ 78.3\\ 35.4\\ 119.7\\ 78.3\\ 134.6\\ 66.6\\ 63.01\\ 119.7\\ 51.1\\ 24.8\\ 91.7\\ 51.1\\ 24.8\\ 91.7\\ 51.1\\ 12.4\\ 49.6\\ 66.6\\ 63.01\\ 115.5\\ 12.4\\ 49.6\\ 66.6\\ 63.01\\ 115.5\\ 119.7\\ 51.3\\ 12.4\\ 49.6\\ 50.1\\ 9.8\\ 88.5\\ 51.3\\ 33.6\\ 46.8\\ 84.8\\ 84.8\\ 84.8\\ 22\\ 191.6\\ 13.8\\ 62.4\\ 13.6\\ 51.3\\ 33.6\\ 62.4\\ 13.0\\ 10.7\\ 13.0\\ 10.7\\ 13.0\\ 10.7\\ 13.0\\ 10.7\\ 13.0\\ 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Dyhe Sept 7, Cde 10 Aco2 Ann, Rasl.2-8 Anpirl, Atpi, H1 Anpivi, H2 Anpivi, H2 Anpivi, H2 Anpivi, H2 Anpivi, H2 Dh33 Ccde22, DXImv40e Kinai, H68 Ndufs1 D10/hu81e H35a Ccde22, DXImv40e Kinai, H68 Ndufs1 D10/hu81e H35a Eir3L, Eir3Eirjs, Eir3s6ip, Paf67 Ndufs3 H35a Eir3L, Eir3Eirjs, Eir3s6ip, Paf67 Ndufs3 H35a Ccde22, DXImv40e Kinai, H68 Col22a1 Mapt, Marg, Tau Exoc8 Rapeef, Cger2, Epac2 Sept6 Kiaa0128 Wip2, Wire Cox6a1, Cox6a1 Eef1g Ugerq Zfyvc20 Cyc1 Anpivi, Paf2, Atp62, Ng38 Dim3, Kiaa0820 Auh Cox6a1, H596, H5986-1, H59ca Ph24 (ECO-0000312/MGENG12140712 Chte Harti, Hint, Pkci, Pkci, H59ca Ph24, Field, Ph24 KR75 KR716, KR716A Naufs6, Ip13 Cox7b	0.48 0.48 0.48 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	$\begin{array}{c} -107\\ -107\\ -108\\ -107\\ -108\\ -108\\ -108\\ -109\\ -109\\ -109\\ -109\\ -109\\ -100\\ -110\\ -110\\ -110\\ -110\\ -111\\ -112\\ -113\\ -115\\ -115\\ -116\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ -117\\ 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      73           20           23           24           8           8           8           11           16           29           14           15           11           14           36           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           8           12           27           31           27           31           27           31           27           31           27           31           27           8           6           36           20           7 <td>40         40           62         346           61         86           24         20           8         11           16         32           222         16           14         44           8         8           8         8           8         8           331         12           16         14           44         8           8         8           331         12           34       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          62.4           51.3           33.4           13.8           35.8           62.4</td> <td>Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 Septin-7 Septin-7 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial ATPase inhibitor, mitochondrial ATPase inhibitor, mitochondrial ATPase inhibitor, mitochondrial ATP-cirate synthase Patative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-ubiquinne evideredinetes 75 KDa subunit, mitochondrial Glutamine amidotransferase-like class 1 domain-containing protein 34, mitochondrial Socirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Socirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Yacuolar protein sorting-associated protein 35 RuvB-like 2 Acyl-protein thioesterase 2 Collagen, type XXII, alpha 1 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Aleme protein, mitochondrial Etoopation factor 1-gamma Cytoper oton ATPase subunit 8 Rabenosyn-5 Statachment protein Bata-soluble NSF attachment protein 1 Beta-soluble N</td> <td>Mus musculus Mus musculus</td>	40         40           62         346           61         86           24         20           8         11           16         32           222         16           14         44           8         8           8         8           8         8           331         12           16         14           44         8           8         8           331         12           34         33           34         33           34         33           8         6           16         16           7         7           8         8           90         7           8         8           112         153           15         8           6         38           26         24           25         24           25         24	135.1           15.1           532.00           85.5           24.4           12.2           28.4           112.2           28.4           112.2           28.4           112.2           28.4           112.2           28.4           112.2           28.4           112.2           28.4           119.7           78.3           35.4           91.7           79.8           28.11           39.6           66.6           30.1           12.4           24.8           91.7           76.2           81.0           92.6           42.8           91.6           9.8           85.3           31.3           33.4           45.2           91.6           13.8           35.8           62.4           51.3           33.4           13.8           35.8           62.4	Calcium-dependent secretion activator 1 Calcium-dependent secretion activator 1 Septin-7 Septin-7 Septin-7 Aconitate hydratase, mitochondrial GTP-binding nuclear protein Ran ATPase inhibitor, mitochondrial ATPase inhibitor, mitochondrial ATPase inhibitor, mitochondrial ATPase inhibitor, mitochondrial ATP-cirate synthase Patative ATP-dependent RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RNA helicase DHX33 Coiled-coil domain-containing protein 22 RAB11-binding protein RELCH NADH-ubiquinne evideredinetes 75 KDa subunit, mitochondrial Glutamine amidotransferase-like class 1 domain-containing protein 34, mitochondrial Socirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Socirate dehydrogenase [NAD] subunit gamma 1, mitochondrial Yacuolar protein sorting-associated protein 35 RuvB-like 2 Acyl-protein thioesterase 2 Collagen, type XXII, alpha 1 Microtubuleassociated protein 14 Exocyst complex component 8 Rap guannine nucleotide exchange factor 4 Septin-6 WASWASL-interacting protein family member 2 Cvtochrome cl. addes subunit 6.01, mitochondrial Etoopation factor 1-gamma Cytoper oton ATPase subunit 8 Rabenosyn-5 Cvtochrome cl. 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   3E-52           3F-18           1E-60           2E-05           6E-06           6E-06           0.0128           0.0016           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.0012           0.002           0.0021           0.0021           0.0021           0.0021           0.0021           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031           0.0031	12 3147,3431 11.6722551 6.512682631 6.512682631 15.98003199 8.977145815 6.6512682631 15.98003199 8.977145815 6.686427514 8.98221241 24.447484484 9.89221241 24.447484484 9.89221241 24.447484484 9.89221241 24.474947858 24.474947858 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**Extented Table 4. List of the Cx30 protein partners.** Analysis of the changing Cx30 interactors in WT vs KD mice. In WT cells 100 proteins were enriched or unique compared to KD cells (with the following parameters: number of peptides  $\geq 3$ , ratio  $\geq 1.5$  and p-value  $\leq 0.05$ ), while in Cx30 KD cells, 261 proteins were enriched or unique (log2 ratio = -1000) compared to WT cells (with the following parameters: number of peptides  $\geq 3$ , ratio  $\geq 1/1.5$  and P-value  $\leq 0.05$ ). WT and KD proteins are highlighted in red and green, respectively. Proteins from the pathway Rho-GTPase activate ROCK are indicated for WT (bold green, Myosin 14) and KD (bold red, Rock2) samples.

# Supplementary Information for

# Astrocytes close the critical period for visual plasticity

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Supplementary Methods

## Methods

**Animals.** All procedures on animals were performed according to the guidelines of European Community Council Directives of 01/01/2013 (2010/63/EU) and our local animal welfare committee (Center for Interdisciplinary Research in Biology in College de France, certificate A751901, Ministère de l'Agriculture et de la Pêche). Experiments were carried out using mice of wild type (WT) C57BL/6j background, mice expressing enhanced green fluorescent protein under the astrocytic promoter aldehyde dehydrogenase 1 family member L1 (Aldh111-eGFP)<sup>1</sup> (JAX stock #026033), as well as constitutive knockout mice for Cx30 which were previously characterized<sup>2</sup> and an astroglial conditional knockdown mouse line for Cx30 that we generated (hGFAP-Cre-Cx30<sup>fl/fl</sup>, named KD). Animals were group housed on a 12 h light/dark cycle. All mice were backcrossed to the C57BL/6J background. Mice of both genders and littermates were used. All efforts were made to minimize the number of animals used and their suffering.

Generation of Cx30 knockdown mice. Astroglial Cx30 knockdown mice (KD) were generated by crossing the hGFAP-cre line constitutively expressing the cre recombinase transgene driven by the human astrocytic glial fibrillary acidic protein (hGFAP) promoter<sup>3</sup> (JAX stock #004600) with Cx30<sup>fl/fl</sup> line containing cre-excisable loxP sequences in the endogenous *Gjb6* gene<sup>2</sup>.

Primary astrocytes cultures. Primary cortical astrocyte cultures were prepared as previously described<sup>4</sup>. Briefly, brains were removed (either P1-P3 pups, or P19 mice) and caudal cortices (therefore enriched in visual cortex material) were dissected in cold PBSglucose (33 mM). Meninges were carefully removed and P1-P3 cortices were mechanically dissociated with Pasteur pipette in PBS-glucose to obtain single cell suspension. For P19 animals, caudal cortices were dissected, treated with papain (0.8 mg/ml; Worthington) for 30 min at 37°C and washed, then mechanically dissociated in PBS containing 5% FCS, 0.3% glucose and 5mM HEPES to obtain a single cell suspension. These dissociated single cell preparations were transduced with a HIV-1-derived lentivirus vector expressing GFP under the control of the PGK ubiquitous promoter (LV-PGK-GFP). Lentiviral particles were produced by transient transfection of HEK-293T cells with a three plasmids system and vector titers were quantified using an ELISA assay of p24 antigen (Gentaur, France), both as previously described<sup>5</sup>. Infection was performed in DMEM containing 5% SVF, 100ng of viral particles were added to 10<sup>6</sup> cells for 3 hours at 37°C. The suspension of infected cells was then directly seeded on polyornithine-coated glass coverslips or petri dishes (0.1 mg/ml) in DMEM containing 10% heat-inactivated FCS, 100 U/ml penicillin/streptomycin (GIBCO) and incubated at 37°C, 5% CO<sub>2</sub>. 24 hours after transduction, the medium was replaced. After one week, once cells have reached confluency, 1 µM of cytosine-beta-Darabinofuranoside was added to the cell culture for 2 days, to eliminate proliferating microglial cells. Medium was then changed every 3 days and astrocytes were used after 10 days in culture (10DIV). For immunocytochemistry, cells were fixed with 4% PFA and washed twice in PBS before proceeding with immunostaining. For intracerebral injection, the culture was washed with PBS, then incubated with trypsin 0.25 EDTA% (Invitrogen) for

5 to 10 min at 37°C. The harvested cells were collected in fresh DMEM 5% SVF and incubated for 2 hours at 37°C, to allow cell recovery.

**Recombinant adeno-associated virus (rAAV) generation.** For rAAV *in vivo* gene transfer, a transgene composed of GFP cDNA was placed under the control of a GFAP-specific promoter in a rAAV shuttle plasmid containing the inverted terminal repeats (ITR) of AAV2 (AAV-GFAP-GFP). Pseudotyped serotype 9 rAAV particles were produced by transient co-transfection of HEK-293T cells, as previously described<sup>6</sup>. Viral titers were determined by quantitative PCR amplification of the ITR on DNase-resistant particles and expressed as vector genome per ml (vg/ml).

**Stereotaxic intracerebral injections.** Animals were anaesthetized i.p. with a mix of ketamine (95mg/kg) and xylazine (12mg/kg) in 0.9 % NaCl and fitted into a stereotaxic frame (David Kopf Instruments). For cells injection, a 2µl-gauge Hamilton syringe adapted to KDS100 pump (Kd Scientific) was linked to a glass capillary (Harvard apparatus, 30-0041) that was surgically implanted in the right visual cortex area with the following coordinates to the Lambda: antero- posterior 0, medio-lateral + 2.8 and dorso-ventral - 0.5 mm. A maximum of 1.5µl of cell suspension (20 x10<sup>4</sup> cells) in DMEM containing 0.25% SVF was infused at a flow rate of 0.2 µl/min. Control animals were injected the same way with 1.5µl of medium. After the injection, the capillary was left in place for 5 min and then slowly withdrawn.

Alternatively for *in vivo* cell labeling,  $1\mu$ l of rAAV2/9-GFAP-eGFP (diluted in PBS at a concentration of  $1x10^{10}$  vg/ $\mu$ l) was unilaterally injected in the right visual cortex at the rate of 0.2 $\mu$ l/min using the same coordinates from Bregma mentioned above. The injection was performed using 29-gauge blunt-tip needle connected to  $2\mu$ l Hamilton syringe and the injection rate was controlled by syringe pump (KD Scientific). After the injection, the needle was left in place for 5 min and then slowly withdrawn. Following surgery, mice were allowed to recover from anesthesia on a heating pad and monitored for the next 24h.

**Gene Ontogy and enrichment analyzes of transcriptomic data.** Comparing microarray data from P30 to P7 astrocytes (GEO# : GSE9566/plateform# : GPL1261) using Geo2R analyzes (<u>https://www.ncbi.nlm.nih.gov/geo/info/geo2r.html</u>)<sup>7</sup> allowed to identify differentially expressed genes between the two stages. Using a cut-off of 5 fold-change, about 200 up and down-regulated genes were analyzed for enrichment using their Gene Ontology assignment (GOtermFinder: <u>https://go.princeton.edu/cgi-bin/GOTermFinder</u>?). Process and Component GO options were selected respectively for the down and up DEG groups. Finally <u>GO</u> results were <u>Vi</u>sualized using ReViGO (http://revigo.irb.hr/).

Antibodies, immunohistochemistry and immunoblotting. All the antibodies used in this study are commercially available and have been validated in previous studies, as reported by the suppliers. The following primary antibodies were used: Cx30 rabbit polyclonal (1:500, 71-2200, Zymed), Cx43 mouse monoclonal (1:500, 610061 BD Biosciences), GFAP mouse monoclonal (1:500, G3893, Sigma-Aldrich), chick anti GFP (1:500, AB13970, Abcam), Parvalbumin mouse monoclonal (1:500, 235, SWANT), MMP9 rabbit (1:500, 3852, cell signaling), anti-active RhoA mouse monoclonal (1:500, 26904, NewEast Biosciences),

Lectin from Wisteria Floribunda, biotin conjugate (1:500, L1516-2MG, Sigma-Aldrich). The following fluorescent dye-conjugated secondary antibodies were used in appropriate combinations: goat anti-mouse IgG conjugated to Alexa 555 (1:2000, A-21424, Thermo Fisher), goat anti-rabbit IgG conjugated to Alexa 647 (1:2000, A-21245 Thermo Fisher). goat anti-chicken Ig conjugated to Alexa 488 (1:2000, A-11039, Thermo Fisher), Streptavidin Alexa fluor 488 (1:2000, S11223, Molecular Probes).

Immunohistochemistry and quantifications were performed as follows. Briefly, animals anesthetized with lethal dose of Dolethal (150µl /10g), were perfused by intracardiac with PBS first and 2% paraformaldehyde (PFA). The brains were carefully removed for an overnight post-fixation in the same fixative, followed by transfer in 30% sucrose for cryoprotection. Brain coronal microtome sections (40um thick) were collected in PBS and pre-incubated 1 h with PBS-1% gelatin in the presence of 0.25% Triton-X100 (PGT). Brain sections were then stained overnight at 4°C with primary antibodies and washed in PGT three times. Appropriate secondary antibodies with DAPI (1:200, D9564, Sigma-Aldrich) were finally applied for 2 hours at room temperature. After several washes in PBS, brain slices were mounted in Fluoromount (Clinisciences) and examined with an inverted confocal laser-scanning microscope (Confocal Leica SP5 inverted). Stacks of consecutive confocal images taken with a 63x objective at 600-1000 nm intervals were acquired sequentially with two lasers (argon 488 nm and helium/neon 543 nm or 647 nm) and Z projections were reconstructed using image J software. Alternatively, primary astrocyte cultures were fixed at room temperature with 2% paraformaldehyde for 10 min, washed twice with PBS and incubated 1h with 5% non-immune goat serum (Zymed) in the presence of 0.25% Triton-X100 before proceeding as described above.

Quantifications of RhoA-GTP, WFA, MMP9, and Cx30 expression were performed with ImageJ software. WFA integrated density was determined using histogram-based thresholding method specifically around PV interneurons. RhoA-GTP and MMP9 fluorescence were evaluated by measuring the global mean intensity or the integrated density, respectively. The integrated density of Cx30 was quantified specifically in astrocytes labeled with GFP following infection with rAAV2/9-GFAP-eGFP, as described above. For the quantification of WFA, Aldh111 and Cx30 staining across cortical layers, confocal image stacks were acquired on four to five brain sections from each animal. Regions of interest (200 x 630µm) were randomly defined in V1 and gray values were averaged along the transversal axis (bin 1.5µm). Western blotting and quantification were performed as previously described<sup>8</sup>. Shortly, cells were collected with a folded pipette tip (200µl) in a small volume of PBS containing protease inhibitor cocktail (Euromedex), phosphatase inhibitors (Beta-glycerophosphate, 10 mM) and orthovanadate (1 mM), to which Laemmli 5X buffer was added. Alternatively, visual cortex samples were isolated from acute slices of 400µm cut in cold ACSF 1X. The same protocol was applied for visual cortex tissue using SDS 2% instead of PBS. Samples were sonicated, boiled 5 min and loaded on 4-12% polyacrylamide gels. Proteins were separated by electrophoresis and transferred onto nitrocellulose membranes. Membranes were saturated with 5% fat-free dried milk in triphosphate buffer solution and incubated overnight at 4°C with primary antibodies. They were then washed and exposed to HRP-conjugated secondary antibodies: goat anti rabbit IgG (1:2500, CSA2115 Clinisciences), goat anti-mouse IgG (1:2500, CSA2108). The HRP-conjugated primary anti-GAPDH antibody (1:10,000, G9295 Sigma-Aldrich) was used as loading control. Specific signals were revealed with the chemiluminescence detection kit (Western Lightning plus-ECL, NEL103E001EA, Perkin Elmer). Semi-quantitative densitometric analysis was performed after scanning the bands with the image J software.

### Proteomics and Mass Spectrometry Analysis.

Sample Preparation. Visual cortices of WT and Cx30KD mice were dissected from acute slices of 400 µm cut in cold ACSF 1X with a vibratome (Leica VT1200S). Samples were prepared in a lysis buffer containing 0.32M sucrose, 5 mM HEPES, 10 mM MgCl<sub>2</sub> and complete EDTA free, and centrifuged (8 min at 1700 g) at 4°C. The supernatant was incubated overnight with lectin from Wisteria Floribunda Agglutinin, biotin conjugate (1:500, L1516-2MG, Sigma-Aldrich) and anti-Cx30 biotinylated (using anti-Cx30 rabbit polyclonal 71-2200, Zymed and Biotinylation kit/Biotin conjugation kit ab201795, abcam) or - coupled with streptavidin beads (Immunoprecipitation Kit - Dynabeads Protein G, 10007D, Invitrogen). Then, the beads were washed with lysis buffer before mass spectrometry analysis. Two additional washes in 100 µL of ABC buffer (25 mM NH4HCO3) were performed keeping the beads in the magnet and with no incubation. Finally, beads were resuspended in 100  $\mu$ l of ABC buffer and digested by adding 0.20  $\mu$ g of trypsine/LysC (Promega) for 1 hour at 37 °C. Samples were then loaded onto homemade Tips packed with Empore<sup>™</sup> C18 Extraction Disks (3M<sup>™</sup> Discs 2215) for desalting. Peptides were eluted using 40/60 MeCN/H2O + 0.1% formic acid and vacuum concentrated to dryness.

*LC-MS/MS Analysis.* For the biotinylated WFA lectine pull down, liquid chromatography (LC) was performed with an RSLCnano system (Ultimate 3000, Thermo Scientific) coupled online to a Q Exactive HF-X with a Nanospay Flex ion source (Thermo Scientific). Peptides were first trapped on a C18 column (75  $\mu$ m inner diameter × 2 cm; nanoViper Acclaim PepMapTM 100, Thermo Scientific) with buffer A (2/98 MeCN/H2O in 0.1% formic acid) at a flow rate of 2.5  $\mu$ L/min over 4 min. Separation was then performed on a 50 cm x 75  $\mu$ m C18 column (nanoViper Acclaim PepMapTM RSLC, 2  $\mu$ m, 100Å, Thermo Scientific) regulated to a temperature of 50°C with a linear gradient of 2% to 30% buffer B (100% MeCN in 0.1% formic acid) at a flow rate of 300 nL/min over 91 min. MS full scans were performed in the ultrahigh-field Orbitrap mass analyzer in ranges m/z 375-1500 with a resolution of 120 000 at m/z 200. The top 20 intense ions were subjected to Orbitrap for further fragmentation via high energy collision dissociation (HCD) activation and a resolution of 15 000 with the AGC target set to 10<sup>5</sup> ions. We selected ions with charge state from 2+ to 6+ for screening. Normalized collision energy (NCE) was set at 27 and the dynamic exclusion of 40s.

For the Cx30 pull down, LC was performed as previously with an RSLCnano system (same trap column, column and buffers), coupled online to an Orbitrap Exploris 480 mass spectrometer (Thermo Scientific). Peptides were trapped onto a C18 column with buffer A at a flow rate of 3.0  $\mu$ L/min over 4 min. Separation was performed at a temperature of 40°C with a linear gradient of 3% to 29% buffer B at a flow rate of 300 nL/min over 91 min. MS full scans were performed in the ultrahigh-field Orbitrap mass analyzer in ranges *m/z* 375-

1500 with a resolution of 120 000 at m/z 200. The top 20 most intense ions were subjected to Orbitrap for further fragmentation via high energy collision dissociation (HCD) activation and a resolution of 15 000 with the AGC target set to 100%. We selected ions with charge state from 2+ to 6+ for screening. Normalized collision energy (NCE) was set at 30 and the dynamic exclusion of 40s.

Data analysis. For identification, the data were searched against the Mus Musculus Swiss-Prot database (UP 000000589 containing 17038 sequences) and also a databank of the common contaminants containing 245 sequences for the Cx30 pull downs using Sequest-HT through proteome discoverer (version 2.2). Enzyme specificity was set to trypsin and a maximum of two-missed cleavage sites were allowed. Oxidized methionine and N-terminal acetylation were set as variable modifications. Maximum allowed mass deviation was set to 10 ppm for monoisotopic precursor ions and 0.02 Da for MS/MS peaks. The resulting files were further processed using myProMS<sup>9</sup> v3.5 (https://github.com/bioinfo-pf-curie/mvproms). FDR calculation used Percolator<sup>10</sup> and was set to 1% at the peptide level for the whole study. The label free quantification was performed by peptide Extracted Ion Chromatograms (XICs) computed with MassChroQ version 2.2.1<sup>11</sup>. For protein quantification, XICs from proteotypic peptides shared between compared conditions (TopN matching) and missed cleavages of peptides were used. Median and scale normalization was applied on the total signal to correct the XICs for each biological replicate. To estimate the significance of the change in protein abundance, a linear model (adjusted on peptides and biological replicates) based on twotailed T-tests was performed and P-values were adjusted with a Benjamini-Hochberg FDR.

Proteins from the biotinylated WFA lectine pull down with at least three total peptides in all replicates (n=3), a 1.5-fold enrichment and an adjusted P-value < 0.05 were considered significantly enriched in sample comparison. Unique proteins were considered with at least three total peptides in all replicates. Protein selected were further analyzed with Reactome pathway analysis (https://reactome.org/PathwayBrowser/#TOOL=AT,<sup>12</sup>). Considering the lack of functional annotation in Mus Musculus, protein pathways were retrieved from the mapping of selected proteins to Homo Sapiens.

**Electroretinography**. The changes in potentials induced by light flashes in the retinal tissue were recorded with a Siem Medical ERG system (Nîmes, France). The active electrode (a gold loop) was placed on the cornea, while reference and ground electrodes were placed subcutaneously above the skull and in the tail, respectively. Mice were dark-adapted prior to the experiment, being housed in a dark-room on the evening prior to the recordings. On the following day, mice were handled under dim red light to maintain dark adaptation. After pupil dilatation with a drop of atropine and anesthesia with an intraperitoneal injection of a mixture of ketamine + medetomidine hydrochloride, the mice were placed on a mobile platform with a heating pad, to maintain body temperature. Ophthalmic gel was applied on both eyes, to keep the cornea moist and favor electric contact with the active electrode. After placement of the Ganzfeld delivering the flashes. After a series of flashes of increasing intensity (from 20 mCd.s.m-2 to 10 Cd. s.m-2), a background light of 25 Cd.m-2 was applied for 15 minutes, to saturate the rod photoreceptors and light adapt the cones, and

flashes of 1 and 10 Cd.s.m-2 were applied. The cone system was further tested using flicker stimuli delivered at 2, 10, 15 and 20 Hz, with the same 25 Cd.m-2 background light.

**Monocular deprivation.** For monocular deprivation, mice were anesthetized i.p. with a mix of ketamine (95mg/kg) and xylazine (12mg/kg) in 0.9 % NaCl. The area surrounding the eye to be sutured was trimmed and wiped with 70% ethanol. Two mattress sutures were then placed and animals were checked daily to ensure sutures remained intact.

### Intrinsic optical imaging.

*Surgery*. Mice were anesthetized with urethane (1.2 g/kg, i.p.) and sedated with chlorprothixene (8 mg/kg, i.m.). Atropine (0.1 mg/kg) and dexamethasone (2 mg/kg) were injected subcutaneously. The animals were placed in a stereotaxic apparatus and the body temperature was maintained at 37°C. In some cases, a craniotomy was made over the visual cortex. The exposed area was then covered by agarose (2.5%) and a glass coverslip. In other cases, the skull was left intact and intrinsic signals were recorded directly though the skull. No difference was found between the two methods.

*Visual stimulation and optical imaging recording.* Visual cortical responses were recorded using imaging methods based on Fourier transform following periodic stimulation<sup>13,14</sup>. Visual stimuli were presented on a high refresh rate monitor placed 20 cm in front of the mouse. Stimulation consisted of a horizontal bar drifting downwards periodically at a period of 8 s in the binocular visual field of the recorded hemisphere (from +5° ipsilateral to +15° contralateral). Each eye was stimulated 5 times in alternance for 2 to 4 minutes. Intrinsic signals were recorded using a 1M60 CCD camera (Dalsa) with a 135x50 mm tandem lens (Nikon) configuration. After acquisition of the surface vascular pattern, the camera was focused 400  $\mu$ m deeper. Intrinsic signals were acquired with a 700 nm illumination wavelength and frames stored at a rate of 10 Hz, after a 2x2 pixels spatial binning.

*Data analysis*. Retinotopic maps for each eye were computed offline. Prior to Fourier transform, the generalized indicator function<sup>15</sup> was applied to remove slow varying components independent of the stimulation. Retinotopic maps were calculated from the phase and magnitude components of the signal at the frequency of stimulation. For each eye, the five activity maps were averaged, filtered with a Gaussian kernel low-pass filter (3 pixels s.d.) and set with a cut-off threshold at 50% of the maximum response. This allowed defining the binocular zone as the intersection between the response regions of each eye. For each of the 5 repetitions, an OD value at each pixel in the binocular zone was then defined as (C-I)/(C+I), calculated from the response amplitude from the contralateral (C) eye and the ipsilateral (I) eyes. OD values ranged from -1 to 1, with negative values representing an ipsilateral bias, and positive values a contralateral bias. From these 5 OD maps, the OD index was then computed as the average of the OD values in the binocular zone. The OD index so f one animal were averaged for statistical comparisons between ages, strains and conditions.

Slices preparation and electrophysiology. After rapid extraction of the brain, coronal slices (400 µm) containing the visual cortex were cut by mean of a vibratome (Leica VT1200S) and allowed to recover for a minimum of 45 min at 30°C in a submerged chamber containing ACSF before recording. Slices were individually transferred in a recording chamber placed under a microscope (Slicescope SSPro1000) and continuously perfused (2 mL/min) with aCSF composed of (in mM): 119 NaCl, 2.5 KCl, 2.5 CaCl<sub>2</sub>, 1.3 MgSO<sub>4</sub>, 1 NaH<sub>2</sub>PO<sub>4</sub>, 26.2 NaHCO<sub>3</sub> and 11 glucose. For recording of spontaneous synaptic activity, layer 4 pyramidal neurons from the primary visual cortex were recorded by wholecell patch clamp using 3-6 M $\Omega$  glass pipettes filled with (in mM): 144 potassium gluconate, 1 MgCl<sub>2</sub>,10 HEPES, 0.5 EGTA (pH 7.4, 280 mOsm). Spontaneous excitatory or inhibitory postsynaptic potentials (sEPSCs or sIPSCs) were identified as inward and ourward currents, respectively. Excitation-inhibition (E-I) balance was determined as described previously<sup>16,17</sup>. Briefly, electrical stimulations (10-100 µA, 0.2 ms, 0.05 Hz) were applied in layer 2 of the visual cortex using a 1 M $\Omega$  monopolar glass pipette filled with aCSF. Under voltage-clamp, 5 trials were repeated for 5 holding potentials (-70mV to -50mV). Data were analysed offline with Elphy (NeuroPSI-CNRS, Gif-sur-Yvette, France). The E-I balance determination is based on the continuous measurement of conductance dynamics during the full-time course of the stimulus-evoked synaptic response. Briefly, we performed post-hoc decomposition of postsynaptic current waveforms in excitatory and inhibitory conductances together with continuous estimation of the apparent reversal potential of the composite responses. This allows a somatic measurement of the E-I balance after dendritic integration of incoming excitation and inhibition<sup>17</sup>. In order to extract the excitatory and inhibitory conductance changes from the evoked synaptic currents, the neuron is considered as the pointconductance model of a single-compartment cell, described by the following general membrane equation:

$$Cm \frac{dVm(t)}{dt} = -gleak(Vm(t) - Eleak) - gE(t)(Vm(t) - Eexc) - gI(t)(Vm(t) - Einh) + Iinj$$

where C<sub>m</sub> denotes the membrane capacitance, I<sub>inj</sub> the injected current, g<sub>leak</sub> the leak conductance and Eleak the leak reversal potential. gE(t) and gI(t) are the excitatory and inhibitory conductances, with respective reversal potentials Eexc and Einh. Evoked synaptic currents were measured and averaged for 5 holding potentials. IV curves were then calculated at all time points of the response. In IV curves for every possible delay (t), the value of holding potential (Vh) was corrected (Vhc) from the ohmic drop due to leakage current through the access resistance ( $V_{hc}(t) = V_h(t) - I(t) \times R_s$ ). An average estimate of the input conductance waveform of the cell was calculated from the best linear fit (mean least square criterion) of the IV curve for each delay (t) following the stimulation onset. Only cells showing a Pearson correlation coefficient for the IV linear regression higher than 0.95 between -90 and -40 mV were considered for calculation of the conductance change in the recorded pyramidal neuron, using the slope of the regression line. The synaptically-evoked global conductance term  $(g_T(t))$  was then measured by subtracting the resting conductance observed in the absence of stimulation (on a time window of 100 ms before electrical stimulation) from the input total conductance. The synaptic reversal potential of the synaptic conductance  $(E_{syn}(t))$  was taken as the voltage of the intersection between the IV curve during the synaptic response and the IV curve at rest. Assuming that the evoked somatic conductance change reflects the composite synaptic input reaching the soma,  $E_{syn}(t)$  characterizes the stimulation-locked dynamics of the balance between excitation and inhibition. The global synaptic conductance  $(g_T(t))$  was further decomposed into two conductance components ( $g_E(t)$  and  $g_I(t)$ ) corresponding to the activation of excitatory and inhibitory synapses respectively, each associated with known and fixed reversal potentials: 0 mV for excitatory ( $E_{exc}$ ) and -80 mV for inhibitory conductance ( $E_{inh}$ ). Under our experimental conditions,  $E_{syn}(t)$  took any intermediate values between  $E_{exc}$  (0 mV) and  $E_{inh}$  (-80 mV) in such a way that the mathematical conditions of the simplification used to calculate  $g_I(t)$  and  $g_E(t)$  were fulfilled. For each component, excitatory and inhibitory, we calculated the conductance change as the mean averaged over a time window of 200 ms. The contribution of each component was expressed by the ratio of its integral value to that of global conductance change.

**Fasudil treatment.** Fasudil hydrochloride (F4660, LC laboratories, Boston, MA, USA) was prepared by diluting 5 mL of solution stock Fasudil 10X (1g Fasudil hydrochloride for 150 mL H2O) in 50 mL of water. The treatment was given for 4 weeks (from P20 to P50) in drinking water (ad libitum; around 3 mg/day/mouse). Drinking bottles were wrapped in aluminium to avoid phototoxicity and replaced every 2 days<sup>18</sup>.

**Statistical analysis.** All data are presented as mean  $\pm$  standard error of the mean (SEM) and n represent the number of independent replicates. All statistical analyses were performed with GraphPad Prism (GraphPad sofware, USA). Prior statistical comparison, the normality of the distributions were studied and appropriate parametric or nonparametric tests were used. Stastistical significance between two groups was evaluated with a two-tailed t-test or Mann-Whitney test. Concerning within-group comparisons, statistical significance was determined with an ANOVA (One- or two-way) or a Kruskal-Wallis followed by post hoc tests (Tukey or Sidak post-hoc tests for the ANOVA; Dunn post-hoc test for Kruskal-Wallis). Appropriate sample sizes were based on best practices in the literature for each method as well as on ethical standards to minimize numbers of animals for experiments.

**Data availability.** We confirm that all relevant data are included in the paper and/or its supplementary information files. The mass spectrometry proteomics data have been deposited to the ProteomeXchange Consortium via the PRIDE<sup>19</sup> partner repository with the dataset identifier PXD020448 (Username: <u>reviewer87927@ebi.ac.uk</u>, Password: nmA5W4eW).

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