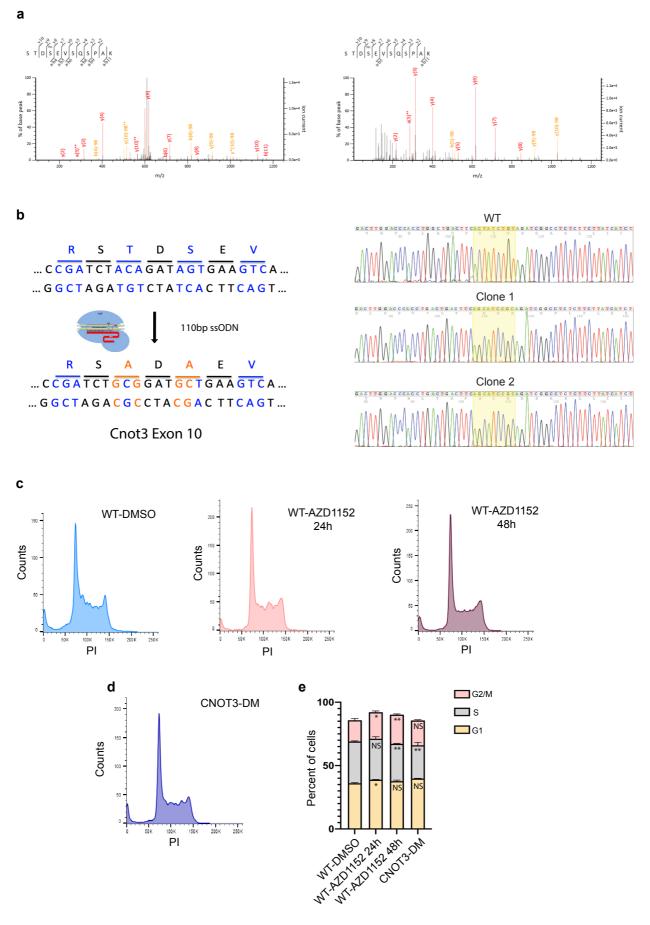
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SUPPLEMENTAL INFORMATION



Supplementary Figure 1: Identification of Aurora B phosphorylation sites in the CNOT3 protein

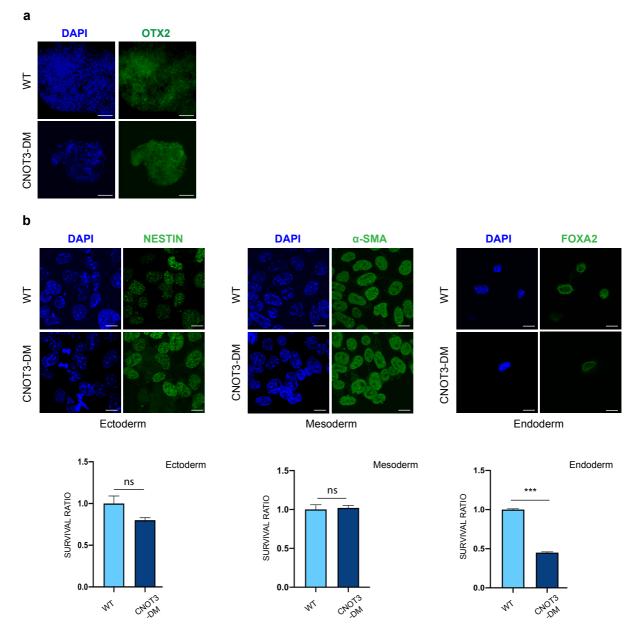
a. MS/MS fragmentation spectrum generated by ion trap collision-induced dissociation (CID) of doubly charged precursor ion with m/z 658.27 identifying CNOT3 tryptic peptide 291-302 (STDSEVSQSPAK). The spectrum presented two fragments which were as follows: Left panel: query number 2609 with assigned b- and y-ions; MASCOT score: 54; expectation value: 1.8x10⁻⁵; neutral loss of H₃PO₄ (-97.98 Da) from precursor ion detected at m/z 609.49; localisation probability for phosphorylation of Ser291: 3.0%, Thr292: 3.0%, Ser294 is 93.9%. Right panel: query number 2608 with assigned b- and y-ions; MASCOT score: 53; expectation value: 3.6x10⁻⁵; localisation probability for phosphorylation of Ser291: 25.6%, Thr292: 25.6%, Ser294: 48.4%.

b. Left panel: Schematic representation showing use of CRISPR/Cas9 targeting of *Cnot3* in exon 10 to mutate Threonine 292 and Serine 294 to alanine, using the guide RNA described in Methods and a 110 bp single-stranded donor oligonucleotides (ssODN) carrying the mutations. Right panel: Sequence images showing the wild-type (WT) sequence and the mutated sequences obtained from two CRISPR generated clones.
c. FACS analysis of the cell cycle profiles of ESCs incubated for 24 and 48 hours with the Aurora B inhibitor AZD1152 or with vehicle (DMSO) and stained with propidium iodide (PI).

d. FACS analysis of the cell cycle profile of Cnot3-DM ESCs.

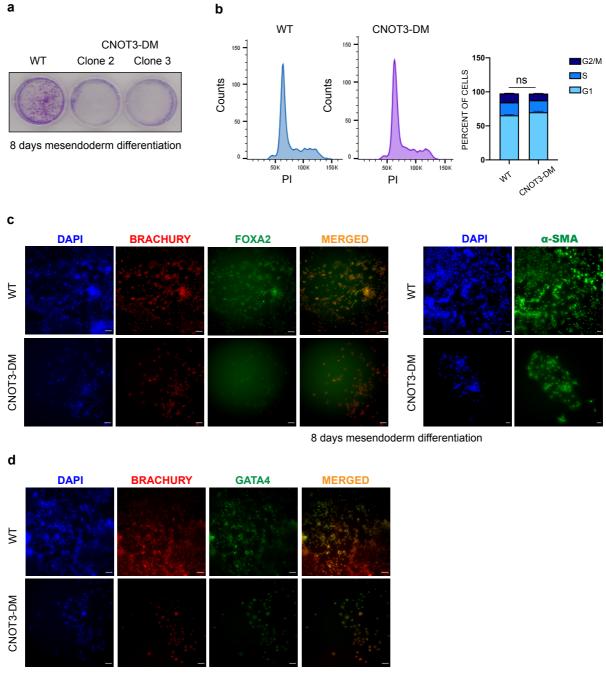
e. Histograms showing the percentage of cells measured at different phases of the cell cycle in (**c**) and (**d**). Mean \pm SEM; P values (with respect to WT-DMSO) calculated by unpaired *t*-test, ns = non-significant, *n*=3.

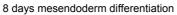
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Supplementary Figure 2: Differentiation of *Cnot3*-DM ESCs into the three germ layers

a. Representative confocal images of 8-day embryoid bodies (EBs) derived from wildtype (WT) and *Cnot3*-DM ESCs and subjected to immunostaining for the ectodermal marker OTX2 (green). Nuclei were counterstained with DAPI; scale bar: 100 μm. **b.** Top panels: Representative confocal images of differentiation of WT and *Cnot3*-DM ESCs into ectoderm (3 days; immunostained for Nestin (*green*)), Activin A induced mesoderm (3 days; immunostained for α -SMA (*green*)) and FGF2+retinoic acid induced endoderm (3 days; immunostained for FOXA2 (*green*). Nuclei were counterstained with DAPI; scale bar: 12 µm. (See Methods). Bottom panels: Graphs represent the ratio of suriving *Cnot3*-DM cells versus WT cells after 3 days of differentiation into each lineage. Cell survival was measured using WST-1 reagent (see Methods). Mean ± SEM; (P values calculated by unpaired *t*-test, ***P<0.001. ns = non-significant, *n*=3).



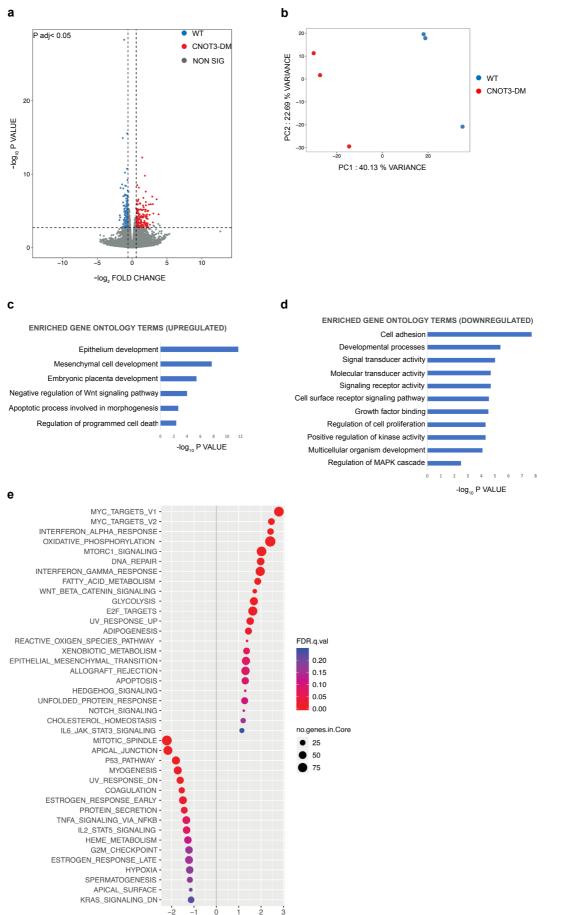


Supplementary Figure 3: CNOT3-T292/S294 phosphorylation promotes survival of differentiating mesendodermal cells.

a. Crystal violet staining showing the efficiency of BMP4+FGF2 induced mesendoderm (ME) differentiation of wild-type (WT) ESCs and two additional clones of *Cnot3*-DM ESCs after 4 days of differentiation.

b. Cell cycle analysis of ME cells obtained by inducing differentiation of WT and *Cnot3*-DM ESCs with BMP4 + FGF2 for 4 days. Histograms represent the percentage of cells at different phases of the cell cycle. Mean \pm SEM; P values calculated by unpaired *t*-test, ns = non-significant, *n*=3.

c. and d. Representative immunofluorescence analysis images of ME cells by inducing 8 differentiation of WT and *Cnot3*-DM ESCs with BMP4 + FGF2 for 8 days (left panel: scale bar: 100 μ m). Staining was for the mesodermal marker Brachury (*red*) and endodermal marker FOXA2 (green) (**c**) or GATA4 (green) (**d**) in Merged images show dual staining of the mesondormal cells. Immunofluorescence was also performed for the mesodermal marker α -SMA (**c**: right panel; scale bar: 60 μ m). Nuclei were counterstained with DAPI.



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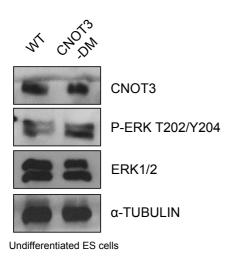
Supplementary Figure 4: Transcriptome profiling by RNA sequencing in differentiating wild-type and *Cnot3*-DM mesendoderm cells.

a. and b. RNA-seq analysis was used to compare gene expression patterns of ME cells obtained by differentiating wild-type (WT) and *Cnot3*-DM ESCs for 4 days with BMP4 + FGF2, we performed RNA sequencing (RNA-seq) analysis on the wild-type and *Cnot3*-DM cells after 4 days of mesendoderm differentiation. a. Volcano plot of RNA-Seq transcriptome data showing differentially expressed genes after 4 days of BMP4 + FGF2 induced mesendoderm differentiation of WT and *Cnot3*-DM ESCs. Fold change ratio >1.5; adjusted P value <0.05. Three biological replicates for each were analyzed.
b. Principal component plot of the RNA-seq data showing PC1 and PC2 and the percent variance obtained for each. This reveals separate clustering of the genes that are differentially expressed between the WT and *Cnot3*-DM-derived 4-day differentiated mesendodermal cells.

c. and **d.** Selected gene ontology (GO) profiles obtained out using the GOSeq Bioconductor package and showing upregulated genes (**c**) and downregulated genes (**d**), which are involved in signalling pathways that have key roles in developmental processes. Adjusted P value <0.05. **e.** GSEA analysis showing Hallmark gene sets that were significantly altered in the differentiated cells. See also Supplementary Tables 2A and S2B for the differentially regulated genes. The GO and GSEA analysis both showed that expression of genes involved in cell death and apoptosis was upregulated (**c** and **e**). The negative regulator of Wnt signalling *Axin2*, and *TGF* β , which is part of the apoptosis program, were also elevated. Additionally, the GO analysis revealed downregulation of gene expression programs that are involved in cell adhesion and developmental processes (**d**). The changes included downregulation of signalling molecules such as

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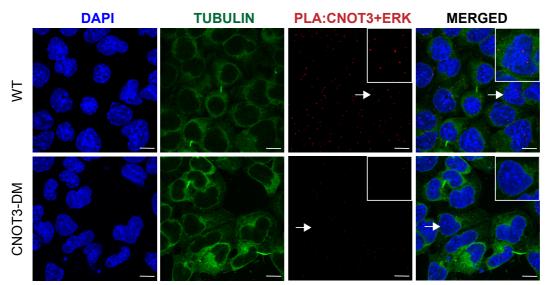
Wnt6. Bcl2, a key cell survival factor downstream of ERK signalling was also downregulated.

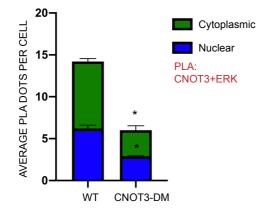


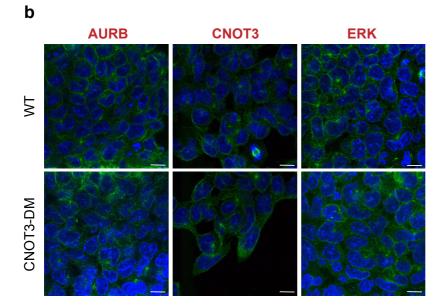
Supplementary Figure 5: The CNOT3-T292A/S294A double mutation does not affect ERK phosphorylation in undifferentiated ESCs.

Immunoblotting analysis of the indicated proteins from cell extracts prepared from undifferentiated wild-type (WT) and *Cnot3*-DM ESCs. α -Tubulin was used as a loading control.

а







Supplementary Figure 6: Phosphorylation of CNOT3-T292/S294 alters interaction of CNOT3 with ERK in mesendodermal cells.

a. PLA detection of endogenous interaction between CNOT3 and ERK using a second pair of antibodies (results from the first antibody pair are shown in Figure 7b). Wild-type (WT) and *Cnot3*-DM ESCs were induced to differentiate into mesendodermal cells by incubation for 4 days with BMP4 + FGF2. Positive PLA signals are visible as red dots. Nuclei were counterstained with DAPI and staining for Tubulin was used to mark the cell cytoplasm. Boxed areas represent an enlarged cell indicated by the arrows; scale bar: 10 μ m. PLA dots were quantified from randomly chosen fields from at least 50 cells for each biological replicate. Histogram represents average interactions per cell (dots per cell) as well as the nuclear and cytoplasmic distribution. Error bars represent the Mean ± SEM; *n*=2. (P values calculated by unpaired *t*-test, *P<0.05).

b. Negative control single PLAs conducted with anti-Aurora B only, anti-CNOT3 only or anti-ERK only.

Supplementary Table 1

List of primers used for qPCR

Oct-4	F-5'-CCAATCAGCTTGGGCTAGAG-3'
	R-5'-CTGGGAAAGGTGTCCCTGTA-3'
Nanog	F-5'-TACCTCAGCCTCCAGCAGAT-3'
0	R-5'-GCAATGGATGCTGGGATACT-3'
Sox2	F-5'-CACAACTCGGAGATCAGCAA-3'
	R-5'-CTCCGGGAAGCGTGTACTTA-3'
Sox1	F-5'-CCTCGGATCTCTGGTCAAGT-3'
	R-5'-TACAGAGCCGGCAGTCATAC-3'
Fgf5	F-5'-TCTGGATCTCCTTTGCGTTT-3'
0,	R-5'-GGGCTTCGAAAGCACATTTA-3'
Cdx2	F-5'-TGGTGTACACAGACCATCAGC-3'
	R-5'-CCTTGGCTCTGCGGTTCT-3'
Tead4	F-5'-ATCCTGACGGAGGAAGGCA-3'
	R-5'-GCTTGATATGGCGTGCGAT-3'
Brachury	F-5'-CAGCTGTCGGGGAGCCTGG-3'
-	R-5'-TGCTGCCTGTGAGTCATAAC-3'
Mixl1	F-5'-AGTTGCTGGAGCTCGTCTTC-3'
	R-5'-TTCTGGAACCACACCTGGAT-3'
Gata4	F-5'-TTCCTCTCCCAGGAACATCAA-3'
	R-5'-GCTGCACAACTGGGCTCTACTT-3'
Gata6	F-5'-ACAGCCCACTTCTGTGTTCCC-3'
	R-5'-GTGGGTTGGTCACGTGGTACAG-3'
Sox17	F-5'- TTCTGTACACTTTAATGAGGCTGTTC-3'
	R-5'-TTGTGGGAAGTGGGATCAAG-3'
Pdgfr	F-5'-CTGGTGCCTGCCTCCTATGAC-3'
	R-5'-CACGATCGTTTCTCCTGCCTTAT-3'
Cxcr4	F-5'-GAGGCCAAGGAAACTGCTG-3'
	R-5'-GCGGTCACAGATGTACCTGTC-3'
Mln51 b	F-5'- ATGACGATGAGGATCGGAAAAAC-3'
	R-5'-GTCCCCTTGGGTCGGACTTC-3'

Supplementary Table 2A

RNA sequencing: List of genes downregulated in 4-day differentiated mesendoderm cells from *Cnot3*-DM ESCs compared with differentiated wild-type ESCs

EnsembliD		log2FoldChange		stat	pvalue	padj	mgi_symbol		chromosome_name
ENSMUSG0000053838 ENSMUSG0000026131	2482.309155	-1.157018261 -0.717944873		-11.1800672	5.11E-29 2.93E-16	6.73E-25 1.93E-12		209586	1
	11067.97424		0.087807241					13518	
ENSMUSG0000051397	1268.069576	-1.345991691	0.168254931	-7.999716172	1.25E-15	5.48E-12		56753	
ENSMUSG0000035632	1369.952484	-0.754342986		-6.71962106	1.82E-11	4.80E-08		232791	
ENSMUSG0000027070	15994.48014	-1.023105892		-6.537129877	6.27E-11	1.38E-07		14725	
ENSMUSG0000027820	1497.443593	-0.672144989		-6.18229498	6.32E-10	1.04E-06		17380	
ENSMUSG0000020758	551.3270647	-1.428458406		-5.958674649	2.54E-09	3.72E-06		192897	1
ENSMUSG0000021061	2236.735648	-0.987576917		-5.897017489	3.70E-09	4.43E-06		20741	12
ENSMUSG0000021182	1135.227706	-0.889362926	0.151228429	-5.880924183	4.08E-09	4.48E-06		68339	12
ENSMUSG0000033227	256.1050069	-1.666444604		-5.777707739	7.57E-09	7.13E-06		22420	1
ENSMUSG0000058550	274.3457105	-1.267724031		-5.747793938	9.04E-09	7.94E-06		73693	10
ENSMUSG0000068876	3552.371463	-0.646409155	0.114422211	-5.649332837	1.61E-08	1.33E-05	-	70737	3
ENSMUSG0000032890	417.2103962	-1.026493014		-5.422882633	5.86E-08	3.86E-05		242662	4
ENSMUSG0000055737	1081.672873	-0.86646144	0.160855145	-5.386594496	7.18E-08	4.51E-05		14600	15
ENSMUSG0000024558	729.6436579	-1.062973842	0.198571592	-5.353101275	8.65E-08	4.95E-05		225724	11
ENSMUSG0000030849	1051.836366	-0.702726847		-5.353130918	8.64E-08	4.95E-05		14183	-
ENSMUSG0000028444	385.1652111	-1.268432175	0.238459807	-5.31927033	1.04E-07	5.72E-05		12804	4
ENSMUSG0000005533	1909.520508	-0.669193516	0.126381111	-5.295043783	1.19E-07	6.03E-05		16001	-
ENSMUSG0000038677	1295.940121	-0.615258047		-5.249946303	1.52E-07	7.16E-05		268935	11
ENSMUSG0000020023	934.8247378	-0.858819039	0.16566568	-5.184049203	2.17E-07	9.54E-05		319880	10
ENSMUSG0000020340	3443.521921	-0.708241996	0.13697307	-5.170666006	2.33E-07	9.92E-05	Cyfip2	76884	1
ENSMUSG0000031351	853.1260034	-0.633014664	0.125310002	-5.051589292	4.38E-07	0.000164957	Zfp185	22673	2
ENSMUSG0000037995	2416.855513	-0.81685748	0.161987049	-5.042733249	4.59E-07	0.000167981		93842	1
ENSMUSG0000026994	880.0719507	-0.688305772		-4.978305742	6.41E-07	0.000216722		14425	
ENSMUSG0000032087	171.7952503	-1.303279121	0.26299458	-4.955536049	7.21E-07	0.000237576	Dscaml1	114873	9
ENSMUSG0000040728	2156.225132	-0.686425559	0.13865033	-4.950767593	7.39E-07	0.000237576		207920	4
ENSMUSG0000033060	1011.747453	-0.823982468	0.169364573	-4.865140647	1.14E-06	0.000331632	Lmo7	380928	14
ENSMUSG0000025278	28303.41362	-0.638489462	0.133540385	-4.781246229	1.74E-06	0.00043043	Flnb	286940	14
ENSMUSG0000060012	870.7055147	-0.769856835	0.161255018	-4.774157383	1.80E-06	0.000432352	Kif13b	16554	14
ENSMUSG0000019124	167.3783846	-1.12622219	0.236238816	-4.767303728	1.87E-06	0.000433672	Scrn1	69938	(
ENSMUSG0000031555	2010.162034	-0.606640014	0.127915057	-4.742522346	2.11E-06	0.000455953	Adam9	11502	1
ENSMUSG0000052105	2114.618465	-0.719708416	0.151746754	-4.742825767	2.11E-06	0.000455953	1110012J17Ri	68617	17
ENSMUSG0000063531	1705.081337	-0.773504067	0.16296105	-4.746557937	2.07E-06			20349	
ENSMUSG0000069806	565.4159924	-1.23287421	0.259591515	-4.749285471	2.04E-06			81904	
ENSMUSG0000027356	327.6499736	-0.936006175		-4.698018697	2.63E-06		Fermtl	241639	2
ENSMUSG0000069045	965.6469682	-0.666732297		-4.698354022	2.62E-06			26900	Y
ENSMUSG0000034640	1466.172569	-0.771791175	0.16472797	-4.685246667	2.80E-06			99929	
ENSMUSG0000020689	438.1493335	-1.047575528		-4.577087352	4.71E-06			16416	1
ENSMUSG0000031714	2662.888399	-0.620949226	0.13615889	-4.560475093	5.10E-06		*	14388	1
ENSMUSG0000038576	971.8499366	-0.734149212		-4.55580414	5.22E-06			96935	1
ENSMUSG0000027500	2474.568492	-0.760402758		-4.536310117	5.72E-06	0.001047699		20257	2
ENSMUSG0000014602	6347.665822	-0.672046889	0.14830823	-4.531420058	5.86E-06			16560	
ENSMUSG00000022197	536.7161592	-1.135428358		-4.527398318	5.97E-06			68070	1
ENSMUSG0000021838	950.7388304	-0.72783968	0.163150473	-4.461155797	8.15E-06			74480	14
ENSMUSG0000038894	2713.782975	-0.593575131	0.133334927	-4.451760275	8.52E-06			384783	1
ENSMUSG0000026475	506.5810476	-0.857809037		-4.415961979	1.01E-05			19734	
ENSMUSG0000024087	196.6400177	-1.057919511	0.240086239	-4.406414617		0.001473241		13078	11
ENSMUSG0000063450	780.7824145	-0.80544092	0.183333086	-4.393320029	1.12E-05			319565	12
ENSMUSG0000003450	2406.894801	-0.618289545	0.140949816		1.12E-05	0.001518477		211652	11
		-0.806564009	0.140949818	-4.380393493	1.13E-05	0.001548159		54610	1
ENSMUSG0000003134	545.792238 1489.503023	-0.617613927		-4.37093066	1.17E-05 1.24E-05	0.001562962		20866	
ENSMUSG0000030987									
ENSMUSG0000002799 ENSMUSG00000019894	1009.798485	-0.902324792 -0.996412523	0.206897161 0.228527023	-4.361223659 -4.360151859	1.29E-05 1.30E-05	0.001631089 0.001631089		16450	12
ENSMUSG00000019894 ENSMUSG00000025964	563.8510355			-4.355243006		0.001631089		103098	
	615.9340152		0.261821774						1
ENSMUSG0000035969	1103.178194			-4.307106897		0.001999564		100213	
ENSMUSG0000043388	249.7067451	-0.859913321		-4.303328567		0.002015495		243339	
ENSMUSG0000054452	1401.893304			-4.264839248		0.002353579		14797	10
ENSMUSG0000047986	679.8603921			-4.257622479		0.002409321		74337	1
ENSMUSG0000051554	695.1761078			-4.225382958		0.002686472		NA 107(84	1
ENSMUSG0000028337	359.330846			-4.221783523				107684	4
ENSMUSG0000051375	967.1463979	-0.712646204		-4.174193053		0.003244822		75599	11
ENSMUSG0000024462	674.5916187			-4.143007814		0.003556548		54393	11
ENSMUSG0000024998	175.4173074			-4.111521713		0.003863474		74055	19
ENSMUSG0000043857	226.4472698			-4.109907492		0.003863474		268510	1
ENSMUSG0000037860	103.9223025			-4.106756883				383619	1
ENSMUSG0000063972	2760.551781	-0.669917041				0.004160549		14536	1
ENSMUSG0000019851	2176.298047			-4.069732905		0.004398601		64058	10
ENSMUSG0000020467	533.7515637	-0.642716971	0.159622143	-4.026490065		0.005040704		216616	1
ENSMUSG0000027171	736.1395379	-0.878354678	0.218510077	-4.019744497	5.83E-05	0.005099059	Prrg4	228413	1
ENSMUSG0000028412	2407.111743	-0.666148379	0.165826744	-4.01713476		0.005099059		100434	4
ENSMUSG0000018166	2057.274688	-0.775810034		-3.999929433		0.005285231	Erbb3	13867	10
ENSMUSG0000034275	259.8939048			-3.969053348		0.005869355		235086	
ENSMUSG0000032735	60.9293543			-3.950987713		0.006154372		319713	11
ENSMUSG0000059713	536.6261686			-3.950094027		0.006154372		53902	4
	853.0200053			-3.938655539		0.006314131		109151	1

ENSMUSG0000032363	306.8802662	-0.755066597		-3.91818571	8.92E-05	0.006774951 Adamt		9
ENSMUSG0000044279	992.0536055	-0.643750759		-3.917526916	8.95E-05	0.006774951 Crb3	224912	17
ENSMUSG0000024544	132.3469829	-1.071625592	0.273919661	-3.9121894	9.15E-05	0.006847782 D18Er		18
ENSMUSG0000064043	561.5700864	-0.700442376	0.181080778	-3.868121086	0.000109677	0.007854437 Trerf1	224829	17
ENSMUSG0000046329	665.4264395	-0.749739986	0.194180655	-3.86104366	0.000112904	0.007916315 Slc25a	23 66972	11
ENSMUSG0000033826	496.3531197	-0.812364539	0.213298814	-3.808575045	0.00013977	0.009294436 Dnahc	3 13417	17
ENSMUSG0000042078	365.0013455	-0.829522031	0.21870893	-3.792812811	0.00014895	0.009621176 Svop	68666	5
ENSMUSG0000030790	158.2585987	-1.098491613	0.290360693	-3.783196696	0.000154827	0.009855821 Adm	11535	1
ENSMUSG0000017009	1374.71206	-0.757035729	0.200182926	-3.781719761	0.000155749	0.009866826 Sdc4	20971	2
ENSMUSG0000046447	233.812982	-0.817692999	0.216319928	-3.780016972	0.000156818	0.009887016 Camk2	nl 66259	4
ENSMUSG0000001870	437.9258165	-0.708633541	0.187694492	-3.775462632	0.000159711	0.010021483 Ltbp1	268977	17
ENSMUSG0000027931	249.2730371	-0.872746922	0.231814228	-3.764854863	0.000166646	0.010407073 Npr1	18160	3
ENSMUSG0000049281	180.3654356	-1.239350705	0.330300893	-3.752186962	0.000175299	0.010766033 Scn3b	235281	ç
ENSMUSG0000022206	87.22724761	-1.829579116	0.488230497	-3.747367536	0.0001787	0.010801522 Npr3	18162	15
ENSMUSG0000038453	147.8639665	-1.148541121	0.306461568	-3.74774928	0.000178428	0.010801522 Srcin1	56013	11
ENSMUSG0000027330	569.172035	-0.792611094	0.213164755	-3.718302753	0.000200566	0.011847737 Cdc25		2
ENSMUSG0000002228	227.0677094	-0.961737216	0.26041732	-3.693061638		0.012494774 Ppm1j	71887	3
ENSMUSG0000017737	547.2662676	-0.916496152		-3.692700964	0.000221885	0.012494774 Mmp9	17395	2
ENSMUSG0000027536	485.6112117	-0.631446152	0.171056774	-3.691441958	0.000222986	0.012503363 Chmp4		3
ENSMUSG0000027550	390.2504138	-0.657073286		-3.690002891		0.012521026 Cdk6	12571	
ENSMUSG00000051455	134.9582589	-0.940910356	0.255694969	-3.679815676	0.0002233403	0.012922462 Gm156		
ENSMUSG00000056602	274.0242929	-0.706148426		-3.653760442	0.000253403	0.012922402 Gill150 0.013956139 Fry	320365	
ENSMUSG0000034593	1834.62353	-0.599763067	0.164417084 0.240919945	-3.647814761 -3.643115479		0.014052644 Myo5a		15
ENSMUSG00000053559	264.8760246	-0.87769918	0.240919945		0.000269358	0.014254335 Smagp 0.014649934 Ckmt1	207818	
ENSMUSG0000000308	435.7158043	-0.883801225		-3.634003616	0.000279057		12716	2
ENSMUSG0000039137	591.311762	-0.657287931		-3.62776974	0.00028588	0.014889491 Whrn	73750	
ENSMUSG0000032878	148.4474587	-0.935040212		-3.609018055	0.000307358	0.015820544 Ccdc8		11
ENSMUSG0000019796	766.1803887	-0.632285722	0.175370027	-3.605437782	0.000311627	0.015915934 Lrp11	237253	10
ENSMUSG0000021457	209.2378261	-1.05299028		-3.606202339	0.000310711	0.015915934 Syk	20963	13
ENSMUSG0000044976	247.7723701	-0.948932459		-3.597013992	0.000321891	0.016313692 Wdr72	546144	ç
ENSMUSG0000039601	211.7875114	-1.092139341	0.304249505	-3.589617479	0.000331164	0.016592176 Rean2	53901	17
ENSMUSG0000026880	461.2632667	-0.82873851	0.232524446	-3.564091966	0.000365118		13830	2
ENSMUSG0000040488	837.778164	-0.809664275	0.227465039	-3.559510859	0.000371546	0.017592759 Ltbp4	108075	1
ENSMUSG0000020020	143.9897749	-1.125683025	0.316725345	-3.554129925	0.000379232	0.017669951 Usp44	327799	10
ENSMUSG0000042195	1106.085107	-0.682537728	0.192144199	-3.552216165	0.000382001	0.017724035 Slc35f.	2 72022	9
ENSMUSG0000029426	805.7365456	-0.599074078	0.168825938	-3.548471796	0.000387473	0.017914871 Scarb2	12492	5
ENSMUSG0000027381	1222.559113	-0.642446121	0.182407785	-3.522032357	0.000428252	0.019325599 Bcl211	12125	2
ENSMUSG0000034855	346.3556108	-0.747186606	0.212318964	-3.519170368	0.000432899	0.019374865 Cxcl10	15945	4
ENSMUSG0000023232	140.1410526	-1.017096121	0.29118083	-3.493005091	0.000477617	0.02077084 Serinc	230779	4
ENSMUSG0000021822	460.072347	-0.682484879	0.196795947	-3.467982393	0.000524382	0.022434341 Plau	18792	14
ENSMUSG0000040669	3905.628905	-0.596426091	0.173603367	-3.435567536	0.000591314	0.02427335 Phc1	13619	(
ENSMUSG0000029151	136.2532322	-1.286979216	0.37696161	-3.414085633	0.000639965	0.02540004 Slc30a	3 22784	5
ENSMUSG0000046314	323.5852831	-0.597445954	0.175156452	-3.410927472	0.000647423	0.025542198 Stxbp6	217517	12
ENSMUSG0000028583	1106.222368	-0.618995315	0.181737601	-3.40598374	0.000659261	0.025701429 Pdpn	14726	4
ENSMUSG0000015094	435.8115648	-0.601991886	0.177201287	-3.397220735	0.00068074	0.026382691 Npdc1	18146	2
ENSMUSG0000074796	515.7895946	-0.818326069	0.241660001	-3.386270239	0.000708496	0.026904463 Slc4a1		2
ENSMUSG0000019864	523.1608831	-0.617201861	0.183421566	-3.36493616	0.000765614	0.027868762 Rtn4ip	1 170728	10
ENSMUSG0000003282	371.9772629	-0.602278117	0.180142276	-3.343346889	0.000827744	0.029399399 Plag1	56711	4
ENSMUSG0000042659	910.8963245	-0.779017285	0.233357962	-3.338293149	0.000842948	0.029623913 Arrdc4	66412	1
ENSMUSG0000074923	140.1519969	-1.109560024		-3.309749738	0.000933794	0.031550273 Pak6	214230	
ENSMUSG0000042978	766.2424091	-0.641193459	0.193772785	-3.308996454	0.00093631	0.031554373 Sbk1	104175	-
ENSMUSG0000020583	234.7205681	-1.025261674		-3.285130882	0.00101935	0.033247466 Matn3	17182	12
ENSMUSG0000048915	269.4119682	-0.606089225		-3.277886908	0.001045873	0.033861098 Efna5	13640	17
ENSMUSG0000057329	161.7421936	-0.92519922	0.282969476	-3.269607855	0.001076967	0.034528444 Bcl2	12043	1
ENSMUSG00000037329	219.8192346	-1.035001357		-3.256965867	0.001070907	0.03566975 Frmd5	228564	2
ENSMUSG0000040152	12933.2347					0.036206822 Thbs1	21825 208777	1
ENSMUSG0000047793	181.0622527					0.036855036 Sned1 0.036855036 Med12		
ENSMUSG00000056476	523.7232778			-3.238592408	0.001201211			3
ENSMUSG0000018554	312.8843707			-3.236876771			53422	11
ENSMUSG0000024883	352.7993191			-3.235952374		0.036894873 Rin1	225870	19
ENSMUSG0000039238	143.5878287		0.307157331	-3.22221373		0.037836791 Zfp750		11
ENSMUSG0000036225	257.6241029			-3.219160021		0.038155938 Kctd1	106931	18
ENSMUSG0000031284	160.7919775			-3.209009692		0.039175986 Pak3	18481	х
ENSMUSG0000032251	503.1594631			-3.206936884		0.039238495 Irak1b		9
ENSMUSG0000028789	608.8495129			-3.202510843		0.039256702 Adc	242669	4
ENSMUSG0000015944	525.6287015			-3.201314416		0.03927325 Gatsl2	80909	-
ENSMUSG0000029314	483.1082236			-3.200290112		0.039327421 Agpats		-
ENSMUSG0000043415	431.8541099	-0.694380959		-3.198576961		0.039395078 Otud1	71198	2
ENSMUSG0000024302	112.2464352	-1.375191189				0.041141917 Dtna	13527	18
ENSMUSG0000061451	96.30824115	-1.302076757	0.410152798	-3.174613857	0.00150036	0.041447056 Tmem	51a 381199	19
ENSMUSG0000019256	537.2204281	-0.641109308	0.202945557	-3.159021159	0.001583	0.042832014 Ahr	11622	12
ENSMUSG0000041703	786.1848823					0.042924203 Zic5	65100	14
ENSMUSG0000026463	370.6140132					0.043175398 Atp2b4		1
ENSMUSG0000037846	268.9204955		0.273521703			0.044529652 Rtkn2	170799	10
ENSMUSG0000069170	89.53057658					0.045038854 Gpr98	110789	13
ENSMUSG0000015312	3254.58288			-3.131510981		0.045110288 Gadd4		10
ENSMUSG00000022101	95.66484114			-3.118530161		0.046504713 Fgf17	14171	14
ENSMUSG00000034656	312.0232071					0.047774084 Cacnal		1-
ENSMUSG0000032625	303.023047	-0 827300575		_3 10260155 ⁻⁷		0.048138771 Thsd7a	330267	6

Supplementary Table 2B

RNA sequencing: List of genes upregulated in 4-day differentiated mesendoderm cells from *Cnot3*-DM ESCs compared with differentiated wild-type ESCs

ENAMLSC0000000707 20.3387700 L4401316 0.00065970 7.2404428 5.2.67103 7.8.69 99660 ENAMLSC0000000210 5.2.20703 L2.232703 L2.232707 L2.237070 L2.2370700 L2.2370700	EnsemblID	baseMean	log2FoldChange	stat	pvalue	padj	mgi_symbol	entrezgene	chromosome_name
NEX.NIS.000000026 9.12.095 0.730727 0.5200572 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.721070 5.711070 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>									1
DENKLISCO0000122 0.129542 0.971297 0.1778707 5.9712948 6.991297 0.1278570 2.4282.48 1.812.45 Dit 1.338 DENKLISCO00004133 77.2300179 2.4274.94 1.7284.07 5.981.45 Dutt 1.338 DENKLISCO00004134 1.2300179 2.4287.94 1.7284.07 1.814.05 Septime 2.331 DENKLISCO000041534 1.44419933 5.1357332 0.6373214 4.114446 2.728.07 0.00014593 Hall 1.991 DENKLISCO0000415471 1.47441983 5.3513721 0.5514401 5.25647 0.00014957 Hall 1.991 DENKLISCO00004144 1.4771271 0.531064 4.0001422 9.8847 0.00014957 Hall 1.972 DENKLISCO00004144 1.4771271 0.531064 4.277218 I.1646 0.0001491 Hall 1.972 DENKLISCO000041144 1.4771271 0.531064 4.277218 I.1646 0.0001431 Hall 1.972 DENKLISCO000041144 1.4771710 0.5310741 4.47725181							•		
NEXKLS20000004 19.5289/37 0.3289/37 0.5399/37 0.1416-07 1.818-05 Dial 1.818-07 NEXKLS2000002140 29.89742 1.0511012 0.3011160 5.2774464 1.7214-7 7.181055 5.8865 1.901 NEXKLS2000002140 29.897425 1.0511012 0.4111121 1.9101 1.9101 NEXKLS2000002145 7.7118660 1.5111217 0.521181 5.515541 2.91021 1.9101 NEXKLS2000002145 7.7118660 1.5112171 2.521804 4.900214 2.52477 0.900121721 8.6110 NEXKLS2000002140 1.5172172 2.512972 4.913022 0.962172 9.8147 0.0002172 9.8141 1.91014 1.9172 NEXKLS2000002115 1.5171271 2.517924 4.757218 1.16840 0.0003152 1.9141 1.9124 NEXKLS2000002129 3.8427944 0.755299 0.1112911 4.4572318 1.51640 0.00031551 1.91417 NEXKLS2000002129 3.912794 4.872318 1.54640 0.00031561 1.91417									
BENKUSCO0000172 27.0001179 2.08.07180 5.0.0000129 1.1.1.4.07 5.9.81.4.5 Seguity 2.0001 BENKUSCO00000771 116.5 5.0.00001772 116.2.5 Seguity 2.0.0001 1.0.0001 116.9 5.0.0001 116.9 5.0.0001 116.9 5.0.0000 1.0.0001 116.9 1.0.0000 1.0.0000 116.9 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.000000 1.0.000000 1.0.0000000 1.0.0000000 1.0.00000000 1.0.000000000000000 1.0.0000000000000000000000000000000000									12
BINKUSC000000410 20.9917425 1.0211012 0.0111201 0.0011201 0.0011201 0.0011201 0.00111001 0.0011201 0.00111001									12
BENKLSCO00000772 BFS.33247 0.982399 0.1721904 1.5184123 0.11647 0.0011215 Ni-1 BENKLSCO000004253 0.7203825 0.4581828 0.17880816 5.0323942 4.5667 0.0011215 Ni-1 1772 BENKLSCO00002450 17.014000 0.7114100 0.9822784 0.9824844 0.28477 0.0011215 Ni-1 1772 BENKLSCO00002450 17.014000 1.5110217 0.22137164 0.0011215 Ni-1 1772 BENKLSCO00002151 1.32724114 0.7932914 4.47237181 1.47646 0.00013021 June1 1479 DENKLSCO000021515 1.32574114 2.7939949 0.6112918 4.49472377 1.2466 0.0001302 June1 1490 DENKLSCO000021521 3.4256475 0.49471953 4.44647153714 1.37666 0.0001421 June1 1490 DENKLSCO000021421 0.00540576 0.00054516 June1 1490 DENKLSCO000021421 0.00540576 0.00054516 June1 1490 DENKLSCO000021421 0.9937950 0.4551797									13
ENS.NUS.0000000452 47.4491998 35135732 0.60724218 5.14144446 2.728-07 0.00014257 101 15901 ENS.NUS.00000002490 107.280492 0.71816460 0.14188211 50.554401 5.258407 0.00014275 23.029 2.0001427 23.029080 1.1511171 0.2333664 4.000228 9.98167 0.00016275 2.00015697 1.000121672 2.00116 0.00016099 Bumb 6.8010 ENS.NUS.00000001246 3.13757147 0.53450498 4.000223 9.98167 0.00003099 Bumb 6.8010 ENS.NUS.00000001256 3.3357647 0.5479984 4.82757371 1.548166 0.00013615 Buh 1.1691 1.12950 ENS.NUS.00000001257 3.3457647 2.4959720 4.34753181 1.35816 0.00013615 Buh 1.1481							•		4
ENS.NUS.GOROMON.272 19.72.03523 0.94818522 0.10788076 5.952.0942 4.946.07 0.00018533 7.942.2940 ENS.NUS.GOROMONZASS 17.1161420 1.972.0141 1.972.194 1.972.194 ENS.NUS.GOROMONZASS 1.1511327 2.1283.010 4.932.09428 9.824.094 0.00015933 9.900009 1.067.00000019 4.931.09129 4.941.091 4.942.941									
ENS.NUS.GORODON.2099 0.072.86379 0.072.86379 0.00012622 0.0001262 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td>									2
ENS.NUS.GOODONC.25 17.2.11420 1.7912140 1.9702140									14
ENS.NUS.GORDONO.2212 22.3292000 1.513127 0.23330204 4.0001022 0.00030099 Beach 60010 ENS.NUS.GORDONO.0141 6.1773120 1.67727320 0.23897224 4.78133306 1.0776.0 0.00030527 DAMLSC ENS.NUS.GORDONO.0141 3.18754114 2.79784414 0.61429089 4.8847727 1.2486.0 0.00031632 ALM 1.6610 ENS.NUS.GORDONO.01501 3.842.07140 0.71529444 4.8147727 1.2486.0 0.00031635 T.661.0 1.563.0 ENS.NUS.GORDONO.01501 2.44547520 0.16110313 4.83256784 1.358.06 0.0003163 1.664.0 1.563.0 ENS.NUS.GORDONO.01501 2.6444753 1.66029552 0.15111316 4.5116323 1.581.06 0.00031616 5.11463 ENS.NUS.GORDONO.02521 6.44612075 1.531116 4.52172778 6.1161041 1.3186.0 0.00015161 1.4461 ENS.NUS.GORDONO.221 6.44612078 1.531116 4.52172778 6.1161040 0.00015161 1.4461 ENS.NUS.GORDONO.221 6.4461705 3.5310									18
ENS.NUS.GOODOOL946 441.7072104 0.727229 0.2182702 4.8713026 1.106-06 0.00302761 DeMmée 11098 ENS.NUS.GOODOOL726 1.238.67.677 0.61849088 0.1512914 4.8677231 1.166-06 0.00032421 Ingh 11392 ENS.NUS.GOODOOL7209 9.4293486 2.73006728 0.6112931 4.87755781 1.3255.66 0.00034201 Ingh 1.666.0 ENS.NUS.GOODOOL7209 9.4293486 2.67306728 0.41161931 4.82742318 1.3255.66 0.00034201 Ingh 1.666.0 ENS.NUS.GOODOOL7107 0.69454755 0.4416463 1.511113 4.5254754 1.5456.60 0.00145071 Cada 1.646.10 ENS.NUS.GOODOOL722 2.52445755 0.5151111 4.5257205 6.116-60 0.0015000 Adm 1.747 ENS.NUS.GOODOOL721 4.5245720 0.255927 5.451575 5.61567 0.201578 4.201783 7.7556 0.0015004 Adm 1.747 ENS.NUS.GOODOOL721 5.3.655516 0.252997 0.25159297 4.51649787 6.									18
ENS.NUS.GOOD.001.001 15.0177512 11.67378602 0.2387229 4.78113386 1.075.06 0.00031261 11.0758 ENS.NUS.GOOD.0021613 31.82754114 2.78948014 0.6128884 4.84947287 1.246.06 0.00031261 11.8275 ENS.NUS.GOOD.002209 9.42943864 2.78929940 0.6110281 4.832503745 1.356.06 0.00031261 18.61 ENS.NUS.GOOD.002124 10.9605805 1.97917385 0.41616444 4.77874546 1.766.06 0.00014615 Cata 14461 ENS.NUS.GOOD.00224 10.9605805 1.97917385 0.41616440 4.77874546 1.766.06 0.00014695 Cata 14461 ENS.NUS.GOOD.00224 2.03059352 0.5111116 4.5537208 0.01165007 4.64167 11.0161 11.0161 ENS.NUS.GOOD.00224 2.03051879 1.0451779 4.0452375 5.244177 0.0116400 1.0116301 1.426 ENS.NUS.GOOD.002778 6.4417791 0.4541779 4.04721877 6.0114500 1.0116301 1.426 ENS.NUS.GOOD.002778 5.04364510									10
ENS.NUS.GOOOD.1256 12.84.87/671 0.63.849088 0.6128998 4.8477237 1.46.06 0.00331621 Atami 9 ENS.NUS.GOOOD.27009 9.4293486 2.673006728 0.6128978 4.84772581 1.355.06 0.00034201 18på 16401 ENS.NUS.GOOOD.27009 9.42934805 2.673006728 0.4515756 2.04547726 0.47874544 1.765.06 0.00031507 1.846.1 ENS.NUS.GOOOD.200505 1.24464755 1.5931153 0.5115135 4.56167915 3.1560 0.00031507 2.0446475 1.5591153 0.5115135 4.561697915 3.1560 0.00051372 Caa.2 1.4461 ENS.NUS.GOOOD022221 2.52.78772 1.00599855 0.1511716 4.5725278 6.0164000 0.0107409 5.1584 6.9354 ENS.NUS.GOOOD02221 2.52.78772 1.00599855 0.2197497 4.544217183 7.55464 0.0117424 7.8144 1.4647 ENS.NUS.GOOOD02376 2.042.1197 1.4441798 4.49721783 4.54421784 1.41647 ENS.NUS.GOOOD023778 8.4441794 0.21174274									6
ENS.NUS.GOODON21613 31.82754114 2.79949414 0.612898 4.849472397 1.245-66 000034261 Ingel 1611 ENS.NUS.GOODON2290 51.880.07644 0.77823949 0.6110281 4.83250734 1.355-66 0.00035168 TgR2 21868 ENS.NUS.GOODON22417 19.605805 1.97915738 0.41616444 4.778745464 1.766-66 0.00035168 TGR2 1.4461 ENS.NUS.GOODON2244 713.935163 0.65037555 0.3151150 6.5168275 5.581162 0.00157067 0.00157067 0.00147085 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td>									11
ENS.NUS.GOOOD.2019 99.429480 2.57006728 0.5137241 4.8755318 1.255-06 000034201 10441 ENS.NUS.GOOOD.03124 0.0545736 2.4644732 0.47961294 1.365.06 0.00035165 12.6444735 1.55911628 0.2311222 4.7634844 1.885.06 0.00031372 Can.2 14461 ENS.NUS.GOOOD.02024 5.1391395 0.5311393 4.51639275 5.585.06 0.00015073 12.444755 1.5591151 4.51639275 5.585.06 0.00015076 Can.2 7.845 ENS.NUS.GOOOD.02221 2.52.7872 1.03599355 0.1511174 4.5272372 4.52442379 6.0605.06 0.0017605 5.131871 4.441177 4.46723617 6.0606 0.0017605 5.13187174 1.959266 4.46723617 6.0611760 0.00117629 1.6330674 ENS.NUS.GOOOD.20176 2.4447354 0.74673974 4.4573534 7.7156 0.00117424 4.191 1.461 ENS.NUS.GOOOD.20176 2.4402134 0.7471784 0.74737844 4.7523502 1.1916<0									13
ENS.NUS.GOODOO2929 1388.02704 0.78523949 0.6110211 6.4325074 1.356-06 0.00035168 Tubel 21808 ENS.NUS.GOODOOL4217 109.0053051 1.264.4451 0.2785234 1.786-06 0.00035108 Hoddel ENS.NUS.GOODOOL2246 719.05305 0.2181523 0.2481523 1.886-06 0.00035272 George 1.4461 ENS.NUS.GOODOOL2246 719.05310 0.65330527 0.5281527 5.531616 0.00150004 Maine 1.7427 ENS.NUS.GOODOOL222 25.365516 0.0239323 0.6339377 0.5235272 2.24542375 6.0616-0 0.01010004 Maine 1.7427 ENS.NUS.GOODOOL585 S.1571774 1.93207817 0.45913926 4.4921318 7.056-0 0.00117620 Ym 2.2567 ENS.NUS.GOODOOL578 6.644.12762 0.9463857 0.2199239 4.48723019 6.001176220 Ym 2.23627 ENS.NUS.GOODOOL578 89.438451 0.9463857 0.2199239 4.48723019 6.001176242 Jm 1.1647 ENS.NUS.GOODOOL578									2
ENS.NUS.GO0000131342 60.054578 2.4045702 0.4305678 1.5486 ENS.NUS.GO00001503 1.26.46475 1.55911628 0.218223 4.7784504 1.5786-0 0.00043072 1.4461 ENS.NUS.GO00002248 2.25.2587 1.6424075 1.55911628 0.2181232 4.76634894 1.886-00 0.00013762 0.0140709 Si.351039 0.01104709 Si.35178174 1.95076191 0.44111777 0.4512077 0.00115680 Cut. 7.2865 ENSNUSG0000002376 51.51781744 1.99376191 0.44111787 A.45120497 C.50660 0.001176420 Nin 2.2352 ENSNUSG0000002376 53.17817443 0.98317671 0.2494771 0.49121843 7.05160 0.00127269 Lap1239 2.92627 7.3263 ENSNUSG000002377 53.3437431 0.49217837 7.32764 0.0117424 Nin 1.1647 ENSNUSG000							*		1
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ENSMUSG0000031217 675.576237 0.839185623 0.209316302 4.009174705 6.09E-05 0.005213585 Efnb1 13641 ENSMUSG0000038507 328.3227396 1.150761133 0.287318155 4.005180722 6.20E-05 0.005252179 Parp12 243771 ENSMUSG00000031734 62.2475798 1.549274621 0.387329704 3.9988598 6.34E-05 0.00528521 Irx3 16373 ENSMUSG0000002105 43.95377984 1.930103703 0.485787627 3.979142981 7.09E-05 0.00584156 Bnc1 12173 ENSMUSG00000079197 2904.588691 0.642758069 0.162198453 3.962787905 7.41E-05 0.00588635 Fmp3 13732 ENSMUSG00000057615 73.76704192 1.40889552 0.356770098 3.94904459 7.85E-05 0.006154372 Ldoc1 434784 ENSMUSG0000003146 816.9286127 1.56682188 0.39742434 3.942439745 8.07E-05 0.00623166 Gpt124 78560 ENSMUSG0000003169 1248.113109 0.724279625 0.185039421 3.91410948 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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ENSMUSG00000031734 62.2475798 1.549274621 0.387329704 3.999885898 6.34E-05 0.005285231 Irx3 16373 ENSMUSG00000025105 43.95377984 1.930103703 0.485787627 3.973142981 7.09E-05 0.005841565 Bncl 1.2173 ENSMUSG00000025105 127.1896627 1.203376346 0.30317857 3.96919985 7.21E-05 0.005841565 Bncl 1.2173 ENSMUSG0000007917 2904.58861 0.462758069 0.162198435 3.962787905 7.41E-05 0.0058863 Sme2 19188 ENSMUSG00000039165 73.76704192 1.408899552 0.35677008 3.942439745 8.07E-05 0.006154372 Ldoc1 434784 ENSMUSG0000003916 391.4408762 1.07587987 0.27329916 3.94637998 8.26E-05 0.00634008 Rfm1 76438 ENSMUSG00000037169 1248.113109 0.724279625 0.185039421 3.914190948 9.07E-05 0.006380041 Mycn 18109 ENSMUSG00000026104 300.186188 0.986070243 0.255395368 3.860955862 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td>									6
ENSMUSG0000025105 43.95377984 1.930103703 0.485787627 3.973142981 7.09E-05 0.005841565 Bnc1 12173 ENSMUSG0000040212 127.1896627 1.203376346 0.30317857 3.969199895 7.21E-05 0.005866355 Emp3 13732 ENSMUSG00000079197 2904.588691 0.642758069 0.162198453 3.962787905 7.41E-05 0.0058863 Psme2 19188 ENSMUSG00000057615 73.76704192 1.40889952 0.356770098 3.9402439745 8.07E-05 0.006154372 Ldoc1 434784 ENSMUSG00000031486 816.9286127 1.566821883 0.39742434 3.942439745 8.07E-05 0.00625186 Gpr124 78560 ENSMUSG00000037169 1248.113109 0.724279625 0.185039421 3.914190948 9.07E-05 0.006330408 Rfm1 76438 ENSMUSG00000026104 300.186188 0.986070243 0.255395368 3.80595862 0.000112944 0.007141515 Stat1 20846 ENSMUSG00000026104 300.186188 0.986070243 0.251995368 3.85									
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ENSMUSQUUUUUU55585 305.347/676 0.962534675 0.253009146 3.804347356 0.000142179 0.00932083 Ndn 17984									
ENSMUSG0000029201 1059.029646 0.771055882 0.202983816 3.798607685 0.000145511 0.009492085 Ugdh 22235									

ENSMUSG0000028005	186.1039764	1.230694363	0.324826933	3.788769458	0.000151395	0.009731396	Gucy1b3	54195	3
ENSMUSG00000055653	5240.324991	0.671074446	0.177285211	3.785281593	0.000153535	0.009820999	Gpc3	14734	х
ENSMUSG0000000142	609.1554334	0.944374794	0.251414288	3.756249494	0.000172479	0.010670199	Axin2	12006	11
ENSMUSG0000032014	74.76513024	1.282519972	0.343365203	3.735148346	0.000187605	0.011236661	Oaf	102644	9
ENSMUSG0000003348	716.4835036	0.616075637	0.16649816	3.700194855	0.000215434	0.012306699	Mob3a	208228	10
ENSMUSG0000024538	1170.442418	0.71215328	0.19248821	3.699724155	0.000215834	0.012306699	Ppic	19038	18
ENSMUSG0000050105	64.76296614	1.781500523	0.484483418	3.677113513	0.000235888	0.012946424	Grrp1	72690	4
ENSMUSG0000074749	190.5536996	0.78437374	0.213368423	3.676147238	0.000236783	0.012946424		228730	2
ENSMUSG0000037347	139.9911112	1.270076496	0.346606631	3.66431678	0.000248	0.013448115		60322	x
ENSMUSG0000024659	557.8192861	0.863236619	0.239754998	3.600494779	0.000317612	0.016158981		16952	19
ENSMUSG0000024035	43.90858602	1.771977086	0.493508198	3.590572745	0.000329952	0.016592176		14813	11
ENSMUSG0000026347	81.91222271	1.2919917	0.361841759	3.570598665	0.000323332	0.010392170		72160	11
		1.2913317	0.362378426	3.566250558	0.000350100	0.017234422		68039	7
ENSMUSG0000025723	84.57747378	2.976216251			0.000373831	0.017592759			11
ENSMUSG0000000690	22.8452417		0.83650917	3.557900329				15414	
ENSMUSG0000006200	128.0443345	1.383350252		3.558630024	0.000372794	0.017592759		19202	X
ENSMUSG0000000753	88.00235774	1.138397562	0.320319141	3.553947978	0.000379494	0.017669951	•	20317	11
ENSMUSG0000048583	20924.62298	1.763778333	0.49791324	3.542340695	0.000396593	0.018217742		16002	7
ENSMUSG0000019779	158.3636336	1.204358543	0.341072397	3.531093558	0.000413845	0.018804276		14302	10
ENSMUSG0000029826	572.1774945	0.752399816	0.213025695	3.531967421	0.00041248	0.018804276		78781	6
ENSMUSG0000027985	410.4341479	0.986836582	0.280186713	3.522067742	0.000428195	0.019325599	Lefl	16842	3
ENSMUSG0000030110	48.45422129	1.655839402	0.470415629	3.519949808	0.000431628	0.019374865	Ret	19713	6
ENSMUSG0000018819	97.32309034	1.148317815	0.327149214	3.51007359	0.000447983	0.01987565		16985	7
ENSMUSG0000027102	30.12658109	2.033848818	0.581120985	3.499871574	0.000465482	0.020445537	Hoxd8	15437	2
ENSMUSG0000039081	26.98815731	2.214462454	0.636521309	3.47900757	0.000503274	0.021743103	Zfp503	218820	14
ENSMUSG0000052957	321.0690726	0.867159787	0.249229297	3.479365378	0.000502603	0.021743103	Gas1	14451	13
ENSMUSG0000026124	93.10863363	1.807090798	0.520759212	3.470108176	0.000520249	0.022361798		12627	1
ENSMUSG0000055809	212.4537795	0.891800405	0.257023273	3.469726287	0.000520989		6030429G01Rik	436022	7
ENSMUSG0000044408	529.9701348	0.629857439	0.182336132	3.454375347	0.000551569		1110002B05Rik	104725	12
ENSMUSG0000042102	43.76501694	2.103421971	0.610299826	3.446538705	0.000567817	0.023528703		74129	13
ENSMUSG0000027954	234.1608836	0.783754634	0.228435287	3.430970079	0.000601427	0.024535612		13636	3
ENSMUSG0000027739	249.7036658	0.851366901	0.248433032	3.426947278	0.000610408	0.024555012		12151	2
ENSMUSG0000045333	333.6674446			3.423257766	0.000618754	0.024933694		94187	8
		0.908403874	0.203302393	3.423237700	0.000618754		•		3
ENSMUSG0000028069	662.3822588	0.651516385				0.024994752		66614	
ENSMUSG0000031661	204.2028134	1.259915594	0.368520495	3.418848096	0.000628868	0.025110899		93960	8
ENSMUSG0000072944	787.4680846	0.635591348	0.186127098	3.414824355	0.000638232	0.02540004		279706	x
ENSMUSG0000033774	23.57056702	2.164246882	0.635288071	3.406717332	0.000657492	0.025701429		226304	1
ENSMUSG0000029778	77.98337059	1.323731271	0.39044806	3.390287736	0.000698193	0.026822417	Adcyap1r1	11517	6
ENSMUSG0000028212	279.8024987	0.686629797	0.203260622	3.378075836	0.000729949	0.02732541	Ccne2	12448	4
ENSMUSG0000042258	61.77892304	2.059807648	0.610147096	3.375919775	0.000735694	0.027357856	Isl1	16392	13
ENSMUSG0000033763	586.2635763	0.591255605	0.175488134	3.369205613	0.000753852	0.027714515	Mtss11	244654	8
ENSMUSG0000070526	50.44535786	1.859870292	0.552354863	3.367165596	0.000759451	0.027721002	Peg12	27412	7
ENSMUSG0000024697	27.8346586	2.549456864	0.758440407	3.361446515	0.000775354	0.028071939	Gna14	14675	19
ENSMUSG0000068048	64.82582848	1.55728285	0.463566232	3.359353512	0.000781251	0.028204216	Rhox9	104384	х
ENSMUSG0000023942	491.9064894	0.588092262	0.175418653	3.35250699	0.000800832	0.028753585	Slc29a1	63959	17
ENSMUSG0000046352	48.39730106	1.537451	0.461628417	3.330494706	0.000866918	0.030061526	Gib2	14619	14
ENSMUSG0000022346	626.0440882	0.78145252	0.234757534	3.32876439	0.000872322	0.030169508	Myc	17869	15
ENSMUSG0000040631	611.2569082	1.563915446	0.470624056	3.32306737	0.000890334	0.030551907		114255	8
ENSMUSG0000029765	126.4924966	1.448277968	0.437119167	3.313233729	0.000922239	0.031401395		243743	6
ENSMUSG0000048450	523.6718304	2.184551489	0.659978105	3.310036308	0.000932839	0.031550273		17701	5
	92.57453724	1.508801165		3.300627956	0.000964687	0.032181474		236573	5
ENSMUSG0000029298				3.296616455					4
ENSMUSG0000032897	643.2071938	0.633624254	0.19220442 0.284822182		0.00097857	0.032480155		18046	
ENSMUSG0000092035	34105.14985	0.937321237		3.29089972	0.000998675	0.032900921		170676	6
ENSMUSG0000032291	148.6599521	0.974592154		3.283374608	0.001025723	0.033372709	•	12903	9
ENSMUSG0000000120	46.45589628	1.920260031	0.586139187	3.276116105	0.001052453	0.033990616	*	18053	11
ENSMUSG0000019789	91.61182862	1.103174145	0.338106508	3.262800681	0.001103171	0.035112274		15214	10
ENSMUSG0000030170	122.0665686			3.261755882				22419	6
ENSMUSG0000025529	132.5336115			3.249596826	0.001155687	0.036206822	Zfp711	245595	X
ENSMUSG0000036545	75.95336569	1.247597701	0.384035388	3.248652962	0.001159528	0.036206822	Adamts2	216725	11
ENSMUSG0000087365	159.8753079	1.226300099	0.377229288	3.250808299	0.001150774	0.036206822	C430049B03Rik	NA	х
ENSMUSG0000079481	173.5593355	1.203221511	0.370674722	3.246030657	0.001170262	0.03628364	Nhsl2	100042480	х
ENSMUSG0000022790	116.9654681	1.118268383	0.346024388	3.231761756	0.001230296	0.037182588	Igsfl1	207683	16
ENSMUSG0000038244	160.2741548	0.773104716	0.239588898	3.226796908	0.001251843	0.037404836	Mical2	320878	7
ENSMUSG0000017493	1436.169009		0.393229761			0.037480519		16010	11
ENSMUSG0000046743	40.60609731			3.214765533		0.038657797		329628	3
ENSMUSG0000000567	124.0173741			3.196723375				20682	11
ENSMUSG00000021506	37.8116986		0.517496003			0.039498407		18740	13
ENSMUSG0000021500	44.17411324			3.167811751		0.041951108		15111	8
ENSMUSG00000038193	287.8491282		0.210655465					108897	2
ENSMUSG00000067786									2
	135.1318425			3.157199699		0.042924203		18111	
ENSMUSG0000042821	371.0679347		0.277407294			0.043548472		20613	2
ENSMUSG0000058806	27.30566452			3.151375633	0.001625034			12817	10
ENSMUSG0000031871	21.8326788			3.142989996		0.044338233		12562	8
ENSMUSG0000022449	32.94683304		0.667836104			0.044894731		223838	15
ENSMUSG0000053219	68.2590431	1.138872646	0.363457361	3.133442238	0.001727689	0.045038854	Raet1e	379043	10
ENSMUSG0000054716	246.7132298	0.72212711	0.231132016	3.124305859	0.001782251	0.045869275		244216	7
ENSMUSG0000029544	140.2233861	1.385115588	0.446273032	3.10374029	0.00191091	0.048053549	Cabp1	29867	5
ENSMUSG0000049288	100.0647123	1.174199241	0.378287247	3.103988438	0.001909308	0.048053549	Lix11	280411	3
				3.094323678	0.001972621	0.049043836		13003	13