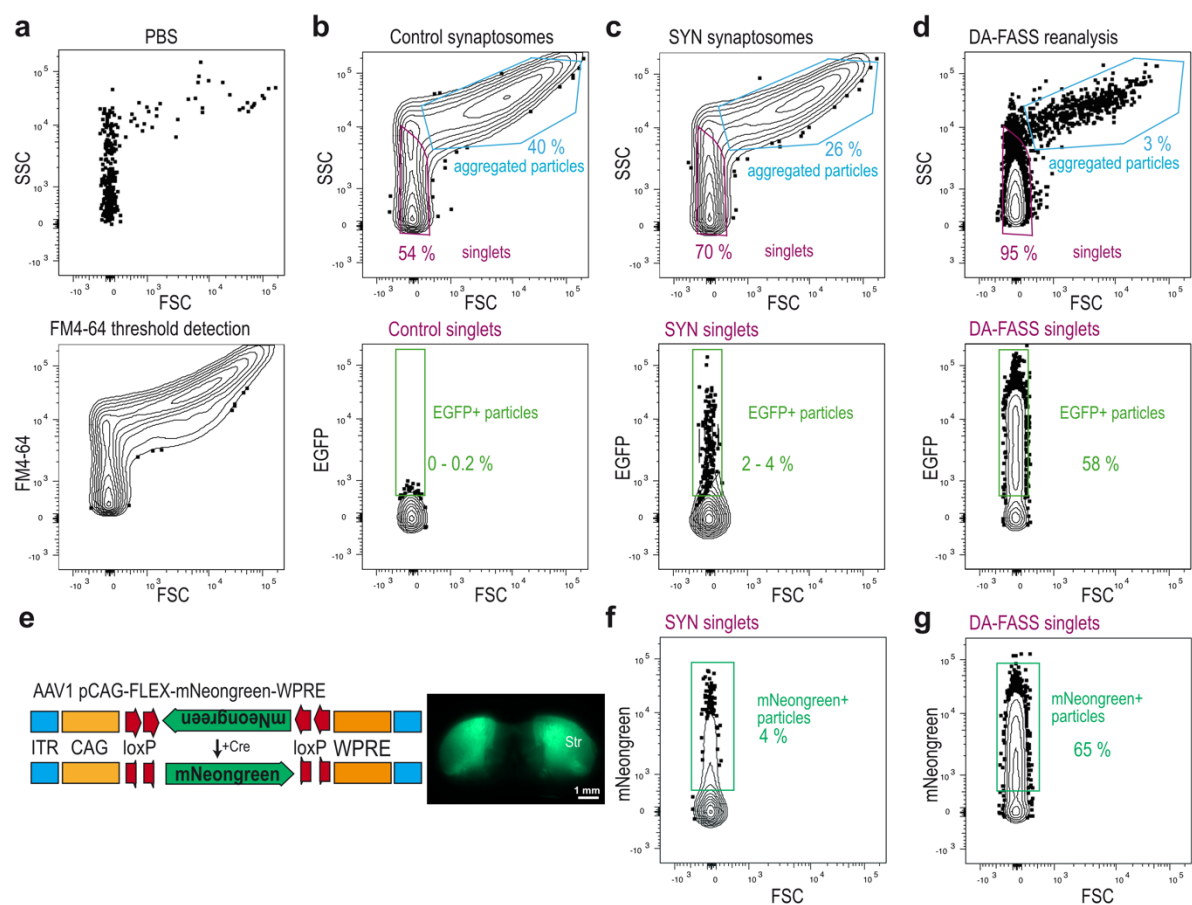


# **A synaptomic analysis reveals dopamine hub synapses in the mouse striatum.**

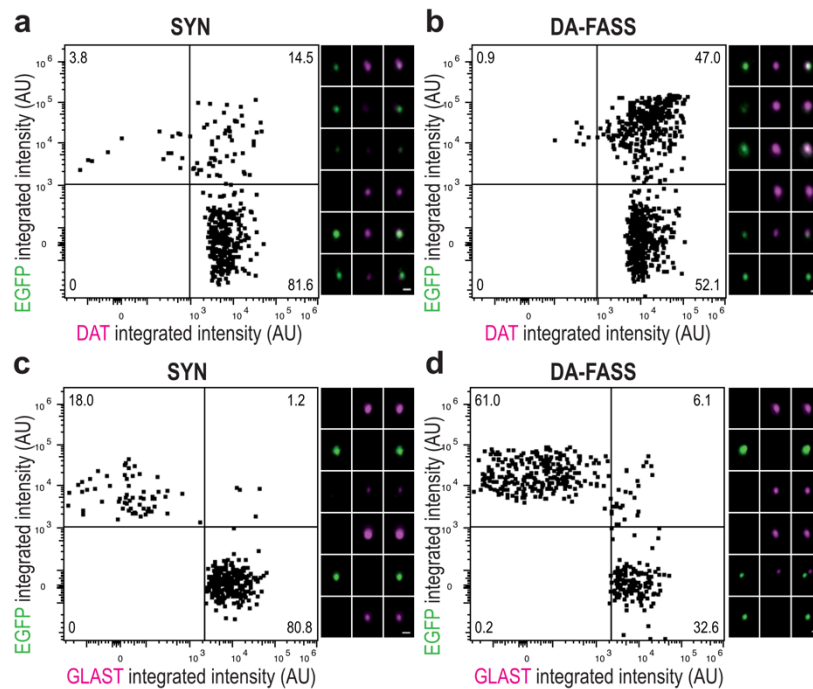
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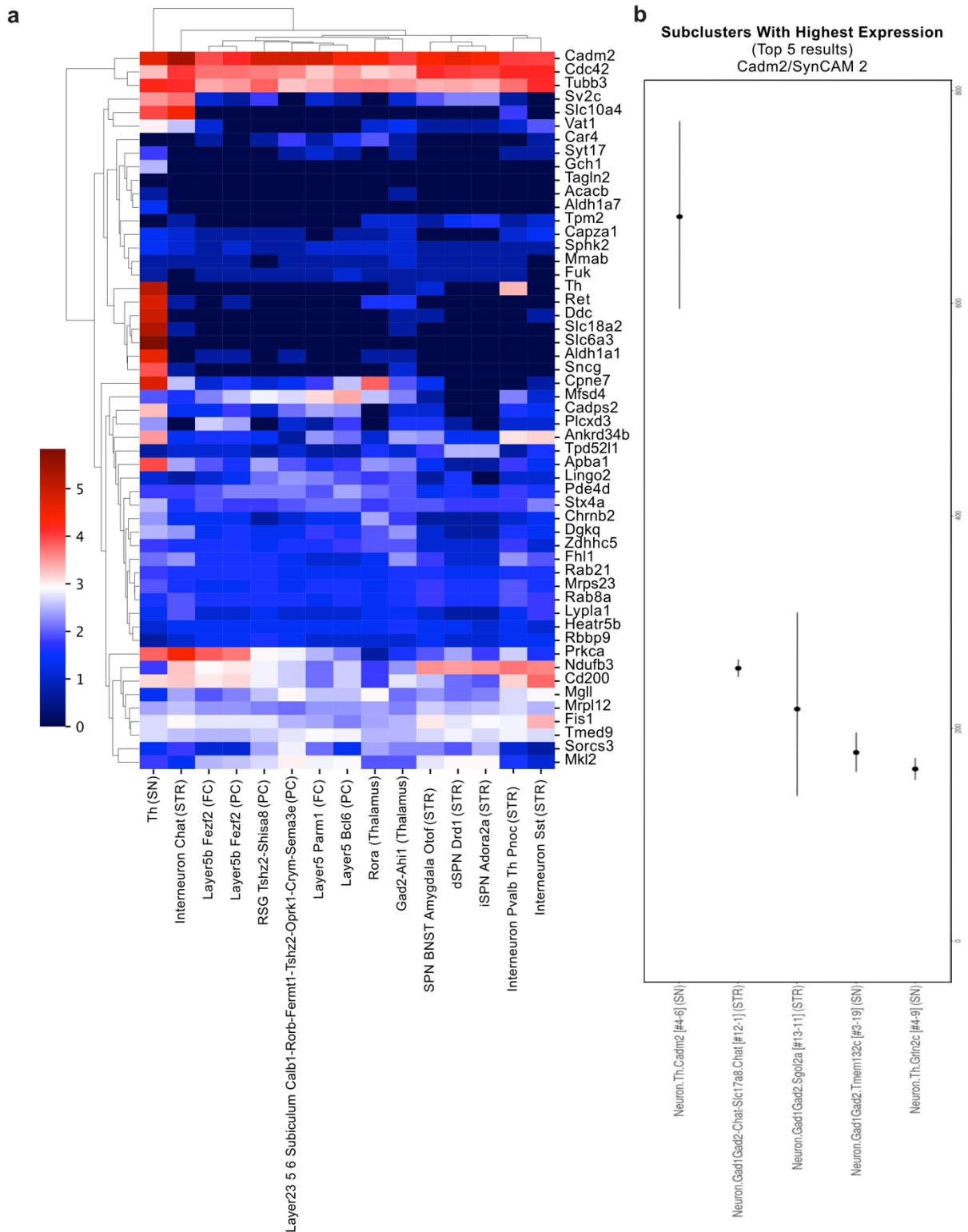


**Supplementary Figure 1: DA-FASS gating strategy.** **a-d** Representative FASS gate settings and particles detection for EGFP+ synaptosomes sorting. **a** Analysis of PBS allows defining the background noise of the thresholding using FM4-64 lipophilic styryl dye used. The noise is less than 500 events per minute. Particle detection using FM4-64 thresholding (bottom). **b** Side scatter (SSC) and forward scatter (FSC) analysis of synaptosomes allows defining aggregated particles (40 %, light blue gate) and singlets (54 %, magenta gate). As published previously, singlets gate was defined experimentally through trials and error<sup>21</sup>. Singlets are further analysed for EGFP fluorescence. Control synaptosomes display low autofluorescence. **c** SYN synaptosomes samples showed 26 % of aggregated particles and 70 % of singlets on this example. 2-4 % of the singlets were significantly fluorescent in the EGFP channel. **d** Sorted particles gated as “singlets” and “EGFP+” were re-analysed showing a drop in the proportion

of aggregated particles (3 %) and a steep rise in singlets (95 %). Up to 58 % of singlets were EGFP+. **e** Cre-dependent AAV expressing mNeongreen and mNeongreen striatal expression. Scale bar = 1mm. **f** Before sorting 4 % of the singlets were significantly fluorescent in the mNeongreen channel. **g** Same as d, after sorting up to 65 % of singlets were mNeongreen+ in the DA-FASS sample.

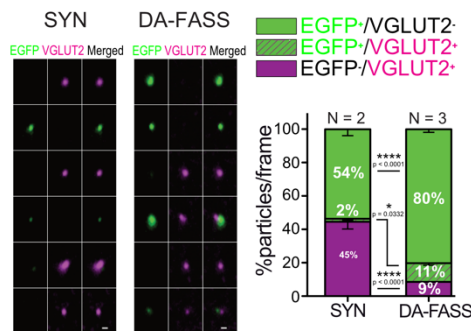


**Supplementary Figure 2: Immunofluorescence of DA-FASS synaptosomes.** **a-b** Dot plots of SYN and DA-FASS synaptosomes stained for the dopamine transporter DAT (x-axis) EGFP (y-axis) and galleries of representative epifluorescence images of individual synaptosomes. The population of particles positive for both EGFP and DAT (upper right quadrant) increases from 15 % in the SYN to 47 % in the DA-FASS sample. **c-d** Dot plots of intensity signal of singlets and DA-FASS synaptosomes stained for EGFP and the astrocyte membrane marker Slc1a3/GLAST and galleries of representative images. Note the very low representation of double positive particles. Scale bar = 1  $\mu$ m.



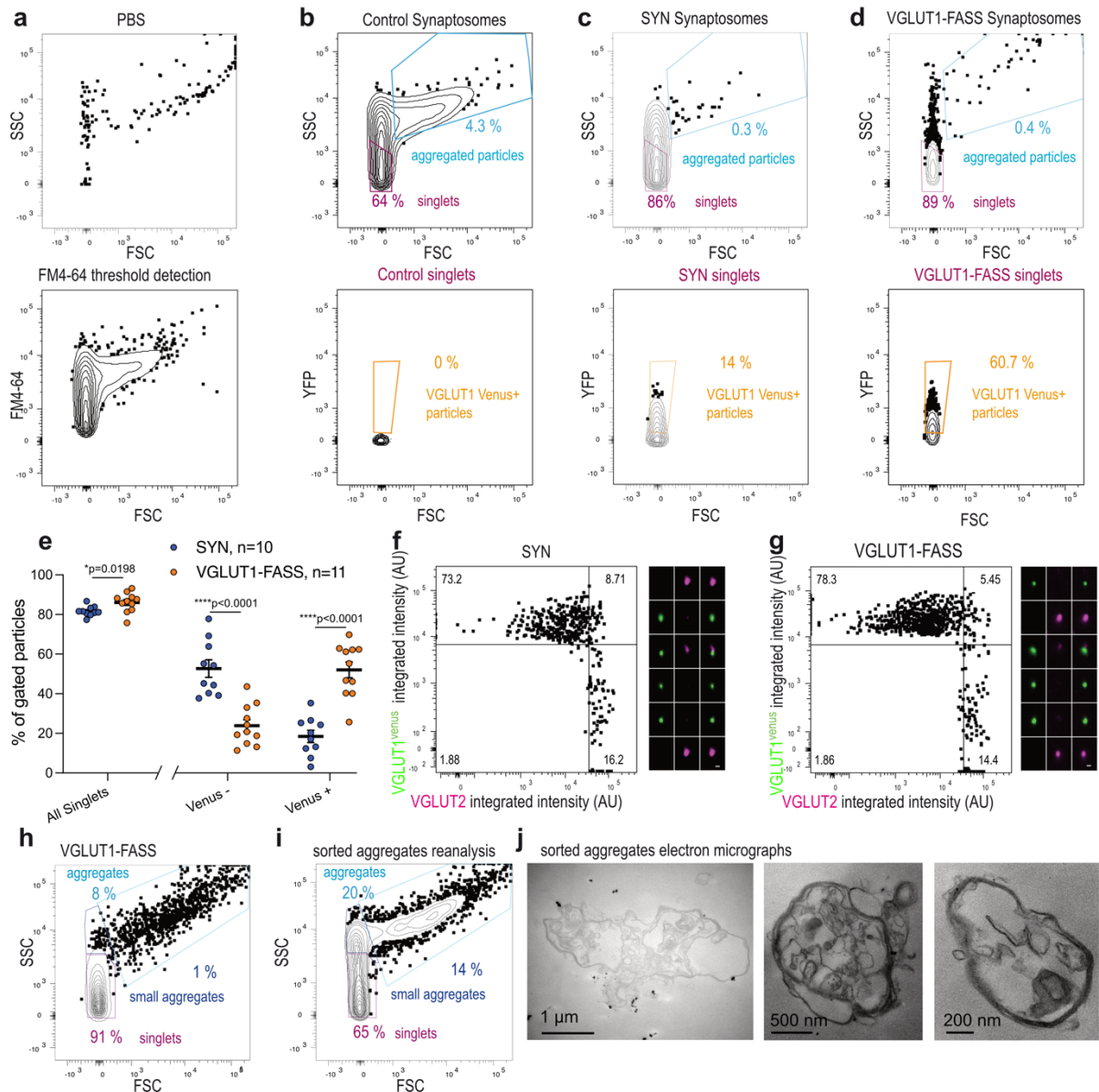
**Supplementary Figure 3: Meta-analysis of enriched proteins with single cell RNA databases.** **a** Extended Heatmap showing cell type specific mRNA abundance in neuronal cells from or projecting to the striatum (STR; Substantia Nigra, SN; Frontal Cortex, FC; Posterior Cortex, PC; Thalamus) of 53 of the enriched DA-FASS proteins present in the DropViz single

cell RNA sequencing database (Stx4a = Stx4, Mfsd4 = Mfsd4a, Fuk = Fcsk, Car4 = Ca4, Mkl2 = Mrtfb) (DropViz; <sup>35</sup>). **b** Drop Viz representation of Cadm2/ SynCAM 2 brain cellular subclusters with highest expression. Data represented per 100 000 transcripts in sub cluster. The error bars represent binomially distributed sampling noise given the number of cells in each subcluster; it does not represent heterogeneity in expression among cells within the subcluster. Dropviz data is obtained from at least N=4 independent replicates. Note that the highest Cadm2/SynCAM 2 mRNA expression throughout the brain is found in a sub cluster of substantia nigra Th neurons. Statistical significance was not analysed in this figure.



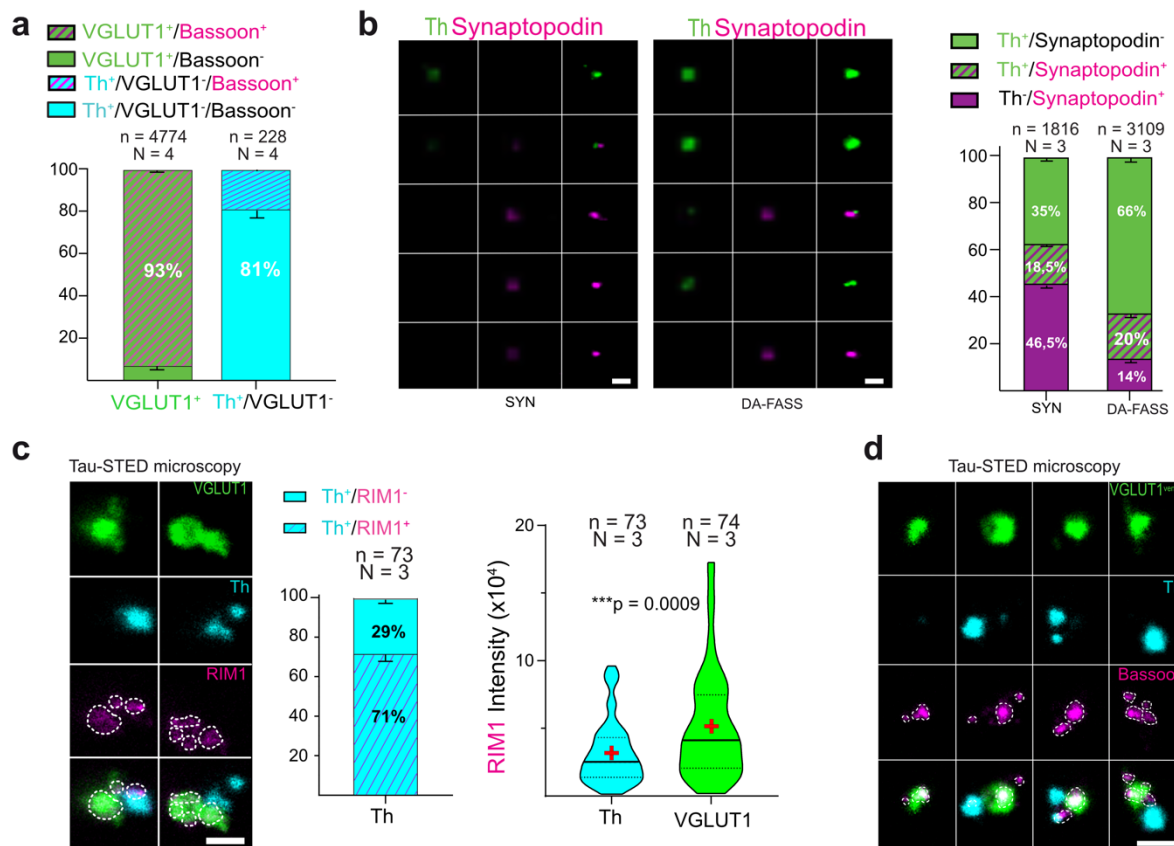
**Supplementary Figure 4: Characterization of thalamo-striatal hub synapses.**

Epifluorescence images of a representative sample of synaptosome populations (singlets and DA FASS) labelled with anti-EGFP and anti-VGLUT2, labelling mainly thalamo-striatal terminals. Analysis of particle proportions per frame. The EGFP<sup>+</sup>/VGLUT2<sup>+</sup> population increases from 2 % to 11 %. All data are mean ± SEM and pulled from 2 to 3 independent sorts. Statistical significance was analysed using Two-way ANOVA, EGFP/VGLUT2: Interaction  $F_{2,54} = 80.90$  \*\*\*\* $p < 0.0001$ , Condition  $F_{1,54} = 0.0001$   $p = 0.991$ , Immunolabelling  $F_{2,54} = 293.7$  \*\*\*\* $p < 0.0001$  with Šídák's multiple comparisons test. Scale bar = 1  $\mu$ m.



**Supplementary Figure 5: Positive and negative controls to dopamine hub synapse identification.** **a** Analysis of a PBS sample was used to define background noise in FM4-64 lipophilic styryl dye used for thresholding (top). The noise was less than 500 events per minute. Synaptosome sample detection using FM4-64 thresholding (bottom). **b** WT synaptosomes display aggregated particles (4.3 %, light blue) and singlets (64 %, magenta). Singlets gate was defined experimentally through trials and error as published previously (Luquet et al., 2017). Singlets were further analysed for Venus fluorescence to determine the autofluorescence level. **c** SYN synaptosomes samples showed 0.3 % of aggregated particles and 86 % of singlets. 14

% of synaptosomes were detected in the Venus<sup>+</sup> gate. **d** VGLUT1-FASS “singlets” were re-analysed and displayed 0.4 % of aggregated particles and 89 % singlets. Up to 60.7 % of sorted singlets were detected in the Venus<sup>+</sup> gate. **e** Average striatal VGLUT1<sup>venus</sup> FASS results. SYN (blue) and VGLUT1-FASS (orange) samples for the different gates: all singlets, Venus<sup>-</sup>, Venus<sup>+</sup>. Data are mean ± SEM and was obtained through at least 10 independent sorts. Statistical significance was analysed using Two-tailed unpaired t-test for all singlets SYN – VGLUT1-FASS \*p = 0.02 and Two-way ANOVA for VENUS<sup>-/+</sup> singlets: Interaction F<sub>1,38</sub> = 72.11 \*\*\*\*p < 0.0001, Gating F<sub>1,38</sub> = 0.668 p = 0.419, Condition F<sub>1,38</sub> = 0.412 p = 0.525 with Šidák's multiple comparisons test. **f-g** Dot plots SYN and VGLUT1-FASS synaptosomes stained for VGLUT1<sup>venus</sup> and VGLUT2 with galleries of representative epifluorescence images. Note the low representation of synaptosomes associating VGLUT1 (cortico-striatal inputs) and VGLUT2 (Thalamo-striatal inputs). Indeed VGLUT1/-2 double positives do not enrich through FASS. Scale bar = 1 μm. **h-i** Representative FASS gating for aggregates sorting. **h** Sucrose/Ficoll VGLUT1<sup>venus</sup> synaptosome samples showed 8 % of aggregated particles (light blue). **i** Particles gated as “aggregates” and large tissue fragments were sorted and reanalysed. Small and large aggregates represented 34 % of particles after sorting. **j** Electron micrographs of sorted aggregated particles coming from one single experiment. Aggregates appear much larger than hub synapses. Their cellular content is difficult to identify though myelin membranes may be recognized on some of them. Scale bar, 1 μm, 500nm, 200nm.



**Supplementary Figure 6: Characterization of VGLUT1/Th hub synapses.** **a** Proportion of Bassoon in VGLUT1<sup>Venus+</sup> or Th<sup>+</sup>/VGLUT1<sup>Venus-</sup> synaptosomes. **b** Epifluorescence images of a representative sample of synaptosome populations (SYN and DA-FASS) labelled with anti-Th (green) and anti-Synaptopodin1 (magenta) and analysis of Th and Synaptopodin particle proportions per frame. Data are expressed as Mean  $\pm$  SEM and pulled from 3 independent experiments. Statistical significance was analysed using Two-way ANOVA, Th/Synaptopodin: Interaction  $F_{2,255} = 251.5$  \*\*\*\* $p < 0.0001$ , Condition  $F_{1,255} = 7.774e-006$   $p = 0.998$ , Immunolabelling  $F_{2,255} = 297.4$  \*\*\*\* $p < 0.0001$ . **c** Representative STED images of VGLUT1<sup>Venus</sup>/Th/RIM1 synaptosomes, quantitative analysis of RIM1 proportion in Th<sup>+</sup> synaptosome and of RIM1 intensity in Th<sup>+</sup> or in VGLUT1<sup>Venus+</sup> synaptosome in Th-VGLUT1<sup>Venus</sup> hubs. Data is expressed as Mean  $\pm$  SEM and pulled from 3 independent experiments. Statistical significance was analysed using Mann Whitney test for intensities,



RIM1: \*\*\*p = 0.0009. **d** Additional representative STED images of VGLUT1<sup>Venus</sup>/Th/Bassoon

synaptosomes coming pulled from 3 independent experiments. Scale bar = 1  $\mu$ m

**Supplementary Table 1: Antibodies list And Dilution**

Primary Antibodies	Source	Identifier	WES (25 ng/ $\mu$ L of protein)	Immuno Fluo
Rat monoclonal anti-SynCAM 2	Thomas Biederer, Yale School of Medicine	N/A, Clone 3E1, No lot number	N/A	1/200
Goat polyclonal anti-Dopamine D1 receptor	Frontier Institute	Cat# D1R-Go-Af1000, RRID: AB_2571594, No lot number info not possible to retrieve from collaborator	N/A	1/1000
Guinea pig polyclonal anti-VGLUT2	Millipore	Cat# AB2251, RRID:AB_1587626, Lot 2879548	N/A	1/1000
Guinea pig polyclonal anti-VGLUT1	Millipore	Cat# AB5905, RRID:AB_2301751, Lot 3616495	N/A	1/3000
Guinea pig polyclonal anti-MGL MgII	Frontier Institute	Cat# MGL-GP, RRID:AB_2716807, Lot Af200	N/A	1/200
Guinea pig polyclonal anti-Homer-1c	Synaptic Systems	Cat# 160 004, RRID:AB_10549720, Lot 2-16	N/A	1/500
Mouse monoclonal anti-GFP	Roche	Cat# 11814460001, RRID:AB_390913, Clone 7.1 and 13.1, Lot 27575600	1/100	1/1000
Mouse monoclonal anti-Munc-18	BD Biosciences	Cat# 610336, RRID:AB_397726, Clone 31, No lot number info not possible to retrieve from collaborator	1/500	N/A
Mouse monoclonal anti-Synaptophysin 1	Synaptic Systems	Cat# 101 011C3, RRID:AB_887822, Clone 7.2, Lot 1-61	1/100	N/A
Mouse monoclonal anti-Tyrosine hydroxylase	Millipore	Cat# MAB318, RRID:AB_2201528, Clone LNC1, Lot 3506431	1/100	1/3000
Mouse monoclonal anti-PSD-95	Abcam	Cat# ab2723, RRID:AB_303248, Clone 6G6-1C9, Lot GR3589-1	N/A	1/400
Rabbit polyclonal anti-Tyrosine hydroxylase	Synaptic Systems	Cat# 213 102, RRID:AB_2619896, Lot 213102/2	N/A	1/500
Rabbit polyclonal anti-Dopamine D2 receptor	Millipore	Cat# AB5084P, RRID:AB_2094980, No lot number info not possible to retrieve from collaborator	N/A	1/200

Rabbit polyclonal anti-Synapsin 1/2	Synaptic Systems	Cat# 106 002, RRID:AB_887804, Lot 106002/16	N/A	1/2000
Rabbit polyclonal anti-VGLUT2	E Herzog	Cat# VGLUT2, RRID:AB_2315563, Lot N/A	N/A	1/1000
Rabbit polyclonal anti-Synaptopodin	Synaptic Systems	Cat# 163 002, RRID:AB_887825, Lot 163002/7	N/A	1/800
Rabbit polyclonal anti-VACHT	Synaptic Systems	Cat# 139 103, RRID:AB_887864, Lot 5-67	N/A	1/1000
Rabbit polyclonal anti-VIAAT/VGATs	Synaptic Systems	Cat# 131 002, RRID:AB_887871, Lot 31002/240	N/A	1/4000
Rabbit polyclonal anti-DAT	Millipore	Cat# AB2231, RRID: AB_1586991, Lot 3417479	1/100	1/2000
Rabbit polyclonal anti-EAAT1/GLAST	Niels Christian Danbolt, University of Oslo	Cat# Ab#314, RRID:AB_2314561, Lot 1998-07-29	1/250	1/10000
Rabbit polyclonal anti-GluA1	Millipore	Cat# AB1504, RRID:AB_2113602, Lot 2207172	1/50	N/A
Rabbit polyclonal anti-GFP	Abcam	Cat# ab290, RRID:AB_303395, Lot GR3251545-1	N/A	1/3000
Rabbit polyclonal anti-Cpne7	OriGene	Cat# TA334534, RRID: N/A, Lot QC28458/40659	N/A	1/500
Rabbit polyclonal anti-Mint 1 Apba1	Synaptic Systems	Cat# 144 103, RRID:AB_10635158, Lot 4	N/A	1/300
Rabbit polyclonal anti-Cadps2	Synaptic Systems	Cat# 262 103, RRID:AB_2619980, Lot 2	N/A	1/400
Rabbit polyclonal anti-Syntaxin 4	Synaptic Systems	Cat# 110 042, RRID:AB_887853, Lot 21	N/A	1/1000
Rabbit polyclonal anti-Bassoon	Synaptic Systems	Cat# 141 003, RRID:AB_887697, Lot 1-25	N/A	1/750
Rabbit polyclonal anti-RIM1	Synaptic Systems	Cat# 140 013, RRID:AB_2238250, Lot 2-13	N/A	1/500
Chicken polyclonal anti-Tyrosine hydroxylase	Millipore	Cat# AB9702, RRID:AB_570923, Lot 3616562	N/A	1/1000
Chicken polyclonal anti-GFP	Abcam	Cat# ab13970, RRID:AB_300798, Lot GR3361051-2	N/A	1/3000
Secondary Antibody	Source	Identifier,	WES (25 ng/μL of protein)	Immuno Fluo
Goat polyclonal Anti Mouse Alexa 488	Thermo Fisher	Cat# A-11001, RRID: AB_2534069, Lot 2379467	N/A	1/500

Goat polyclonal Anti Rabbit Alexa 568	Thermo Fisher	Cat# A-11011, RRID:AB_143157, Lot 1778025	N/A	1/500
Goat polyclonal Anti-Chicken Alexa 647	Thermo Fisher	Cat# A-21449, RRID:AB_2535866, Lot 2186435	N/A	1/500
Goat polyclonal Anti-Chicken Alexa 594	Thermo Fisher	Cat# A-11042, RRID:AB_2534099, Lot 2181000	N/A	1/500
Goat polyclonal Anti Rabbit Atto-647	Sigma-Aldrich	Cat# 40839, RRID:AB_1137669, Lot BCCF3161	N/A	1/500
Goat polyclonal Anti-Chicken Alexa 488	Thermo Fisher	Cat# A-11039, RRID:AB_2534096, Lot 2304258	N/A	1/500
Goat polyclonal Anti-Guinea Pig Alexa 647	Thermo Fisher	Cat# A-21450, RRID:AB_2735091, Lot 2231672	N/A	1/500
Goat polyclonal Anti-Mouse Alexa 647	Thermo Fisher	Cat# A-21235, RRID:AB_2535804, Lot 2306581	N/A	1/500
Goat polyclonal Anti-Mouse Alexa 568	Thermo Fisher	Cat# A-11004, RRID:AB_2534072, Lot 1419715	N/A	1/500
Goat polyclonal Anti Rabbit Alexa-647	Thermo Fisher	Cat# A-21244, RRID:AB_2535812, Lot 1910774	N/A	1/500
Goat polyclonal Anti Rabbit Alexa 488	Thermo Fisher	Cat# A-11008, RRID:AB_143165, Lot 1705869	N/A	1/500

**Supplementary Table 2: Statistical Analysis**

Figure	Variable	Condition	(Mean $\pm$ SEM) N, n	Source of Variation F (DFn, DFd) p value	Post-Hoc P value summary	Test		
Fig. 1d	Th	H	1 $\pm$ 0.26; N = 3	Interaction F8,36 = 0.2733 p = 0.9706		Two-way ANOVA		
		P1	0.36 $\pm$ 0.07; N = 3	Fraction F8,36 = 7.062 ****p<0.0001				
		S2	0.77 $\pm$ 0.1; N = 3	Protein F1,36 = 2.387 p = 0.1311				
		P2	1.2 $\pm$ 0.27; N = 3					
		Syn	1.5 $\pm$ 0.31; N = 3					
		LS1	2.2 $\pm$ 0.19; N = 3					
		SPM	0.26 $\pm$ 0.02; N = 3					
		LS2	1.58 $\pm$ 0.32; N = 3					
		LP2	0.82 $\pm$ 0.4; N = 3					
			GFP	H	1 $\pm$ 0.53; N = 3			
				P1	0.23 $\pm$ 0.09; N = 3			
				S2	0.49 $\pm$ 0.23; N = 3			
		P2	1.12 $\pm$ 0.52; N = 3					
		Syn	1.48 $\pm$ 0.71; N = 3					
		LS1	1.8 $\pm$ 0.5; N = 3					
		SPM	0.07 $\pm$ 0.02; N = 3					
		LS2	1.29 $\pm$ 0.22; N = 3					
		LP2	0.03 $\pm$ 0.01; N = 3					
Fig. 1f	All Singlets	SYN	73.79 $\pm$ 4.608; N = 9		*p = 0.0104	Mann-Whitney test		
		DA-FASS	83.91 $\pm$ 1.252; N = 8					
	DA-FASS	EGFP - Singlets	30.94 $\pm$ 2.75; N = 8	Interaction F1, 30 = 218.3 ****P<0.0001	SYN - DA-FASS	Two-way ANOVA		
		EGFP + Singlets	48.94 $\pm$ 2.30; N = 8	Gating F1, 30 = 66.42 ****P<0.0001	EGFP - Singlets ****p<0.0001			
	SYN	EGFP - Singlets	66.14 $\pm$ 3.97; N = 9	Condition F1, 30 = 3.302 P = 0.0792	EGFP + Singlets ****p<0.0001			
		EGFP + Singlets	3.86 $\pm$ 0.53; N = 9					
Fig. 2c	EGFP-/Th+	SYN	29,915 $\pm$ 4.65 n = 13	Interaction F2, 96 = 65.04 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA		
		DA-FASS	10.027 $\pm$ 0.825 n = 21	Condition F1, 96 = 0.03371 p = 0.8547	EGFP-/Th+ ****p<0.0001			
				Immunolabelling F2, 96 = 510.3 ****p<0.0001	EGFP+/Th+ ****p<0.0001			
	EGFP+/Th+	SYN	57.400 $\pm$ 2.81 n = 13		EGFP +/Th- p = 0.2534			

		DA-FASS	83.095 ± 1.131 n = 21			
	EGFP+/Th-	SYN	11.772 ± 2.039 n = 13			
		DA-FASS	6.882 ± 1.177 n = 21			
Fig. 2g	EGFP-/D1R+	SYN	86.81 ± 1.388 n = 12	Interaction F2, 96 = 208,0 ****p<0,0001	Singlets - FASS	Two-way ANOVA
		DA-FASS	43.241 ± 2.035 n = 22	Condition F1, 96 = 0,007420 p = 0,9315	EGFP-/D1R+ ****p<0.0001	
				Immunolabelling F2, 96 = 437,9 ****p<0,0001	EGFP+/D1R+ ****p<0.0001	
	EGFP+/D1R+	SYN	3.21 ± 0.715 n = 12		EGFP+/D1R- ****p<0.0001	
		DA-FASS	28.585 ± 1.97 n = 22			
	EGFP+/D1R-	SYN	9.496 ± 1.281 n = 12			
		DA-FASS	28.081 ± 1.416 n = 22			
Fig. 2k	EGFP-/D2R+	SYN	72.19 ± 3.03 n = 32	Interaction F2, 180 = 149.4 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	32.328 ± 2.42 n = 30	Condition F1, 180 = 0.6714 p = 0.4136	D2R+/EGFP- ****p<0.0001	
				Immunolabelling F2, 180 = 163.5 ****p<0.0001	EGFP+/D2R+ ****p<0.0001	
	EGFP+/D2R+	SYN	15.20 ± 2.27 n = 32		EGFP+/D2R- p = 0.1382	
		DA-FASS	53.24 ± 2.27 n = 30			
	EGFP+/D2R-	SYN	8.18 ± 1.80 n = 32			
		DA-FASS	14.55 ± 1.38 n = 30			
Fig. 4b	Th-/Cpne7+	SYN	42.61 ± 2.4 n = 31	Interaction F2, 180 = 131.9 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	16.21 ± 1.28 n = 31	Condition F1, 180 = 0.0004 p = 0.9841	Th-/Cpne7+ ****p<0.0001	
				Immunolabelling F2, 180 = 570.4 ****p<0.0001	Th+/Cpne7+ p = 0.9951	
	Th+/Cpne7+	SYN	8 ± 0.88 n = 31		Th+/Cpne7- ****p<0.0001	
		DA-FASS	8.49 ± 0.44 n = 31			
	Th+/Cpne7-	SYN	49.3 ± 2.35 n = 31			
		DA-FASS	75.29 ± 1.32 n = 31			
Fig. 4c	Th-/Mint-1+	SYN	66.14 ± 3.09 n = 30	Interaction F2, 183 = 163.7 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	29.92 ± 1.27 n = 33	Condition F1, 183 = 0.0009 p = 0.9754	Th-/Mint-1+ ****p<0.0001	
				Immunolabelling F2, 183 = 316.5 ****p<0.0001	Th+/Mint-1+ p = 0.2048	
	Th+/Mint-1+	SYN	3.56 ± 0.5 n = 30		Th+/Mint-1- ****p<0.0001	

		DA-FASS	8.35 ± 0.65 n = 33			
	Th+/Min t-1-	SYN	30.05 ± 2.99 n = 30			
		DA-FASS	61.34 ± 1.33 n = 33			
Fig. 4d	Th- /Cadps2+	SYN	57.71 ± 3.33 n = 30	Interaction F2, 187 = 110.5 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	22.63 ± 1.1 n = 34	Condition F1, 187 = 0.004 p = 0.9511	Th-/Cadps2+ ****p<0.0001	
				Immunolabelling F2, 187 = 88.12 ****p<0.0001	Th+/Cadps2 + *p=0.0434	
	Th+/Cad ps2+	SYN	12.99 ± 1.65 n = 30		Th+/Cadps2- ****p<0.0001	
		DA-FASS	20.54 ± 1.49 n = 34			
	Th+/Cad ps2-	SYN	28.97 ± 3.41 n = 31			
		DA-FASS	56.83 ± 1.11 n = 34			
Fig. 4e	DAT- /SynCAM2+	SYN	53.18 ± 2.38 n = 12	Interaction F2, 60 = 84.92 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	18.87 ± 3.05 n = 10	Condition F1, 60 = 4.371e-005 p = 0.9947	DAT-/SynCAM2+ ****p<0.0001	
				Immunolabelling F2, 60 = 73.75 ****p<0.0001	DAT+/SynCam2+ ****p<0.0001	
	DAT+/S ynCam2 +	SYN	28.69 ± 1.56 n = 12		DAT+/SynCam2- p = 0.1265	
		DA-FASS	71.76 ± 5.67 n = 10			
	DAT+/S ynCam2-	SYN	18.18 ± 1.93 n = 12			
		DA-FASS	9.37 ± 2.81 n = 10			
Fig. 4f	Th- /Stx4+	SYN	62.45 ± 3.11 n = 31	Interaction F2, 177 = 69.25 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	29.18 ± 1.74 n = 30	Condition F1, 177 = 0.004 p = 0.9497	Th-/Stx4+ ****p<0.0001	
				Immunolabelling F2, 177 = 49.15 ****p<0.0001	Th+/Stx4+ ****p<0.0001	
	Th+/Stx4 +	SYN	7.16 ± 1.22 n = 31		Th+/Stx4- p = 0.1185	
		DA-FASS	33.31 ± 3.08 n = 30			
	Th+/Stx4 -	SYN	30 ± 2.66 n = 31			
		DA-FASS	37.51 ± 3.06 n = 30			
Fig. 4g	Th- /Mgll+	SYN	31.18 ± 2.17 n = 33	Interaction F2, 192 = 98.57 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	8.83 ± 0.57 n = 33	Condition F1, 192 = 4.217e-005 p = 0.9948	Th-/Mgll+ ****p<0.0001	
				Immunolabelling F2, 192 = 1242 ****p<0.0001	Th+/Mgll+ **p = 0.0015	

	Th+/Mgl l+	SYN	3.22 ± 0.54 n = 33		Th+/Mgll- ****p<0.0001	
		DA-FASS	10.28 ± 0.95 n = 33			
	Th+/Mgl l-	SYN	65.48 ± 2.08 n = 33			
		DA-FASS	80.79 ± 1.17 n = 33			
Fig. 5b	Synapsin +/EGFP-	SYN	83.2 ± 1.06 n = 9	Interaction F2, 51 = 237,8 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	33.78 ± 2.38 n = 10	Condition F1, 51 = 0,01020 p = 0.9199	EGFP-/Synapsin+ ****p<0.0001	
				Immunolabelling F2, 51 = 237,5 ****p<0.0001	EGFP+/Synapsin+ ****p<0.0001	
	EGFP+/S ynapsin+	SYN	6.62 ± 1.15 n = 9		EGFP+/Synapsin- ***p = 0.0006	
		DA-FASS	44.88 ± 3.31 n = 10			
	EGFP+/S ynapsin-	SYN	9.64 ± 1.43 n = 9			
		DA-FASS	21.31 ± 1.6 n = 10			
Fig. 5d	EGFP- /VGLUT 1+	SYN	76.23 ± 1.62 n = 12	Interaction F2, 63 = 91,49 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	30.93 ± 4.53 n = 11	Condition F1, 63 = 0,002 p = 0.9695	EGFP-/VGLUT1+ ****p<0.0001	
				Immunolabelling F2, 63 = 92,06 ****p<0.0001	EGFP+/VGLUT1+ **p = 0.0022	
	EGFP+/ VGLUT 1+	SYN	5.92 ± 1.39 n = 12		EGFP+/VGLUT1- ****p<0.0001	
		DA-FASS	20.78 ± 2.68 n = 11			
	EGFP+/ VGLUT 1-	SYN	17.8 ± 1.68 n = 12			
		DA-FASS	48.52 ± 4.61 n = 11			
Fig. 5f	EGFP- /VIAAT +	SYN	68.19 ± 3.24 n = 9	Interaction F2, 78 = 54,90 ****p<0.0001	SYN - DA-FASS	Two-way ANOVA
		DA-FASS	25.93 ± 1.9 n = 19	Condition F1, 78 = 0,04 p = 0.8438	EGFP-/VIAAT+ ****p<0.0001	
				Immunolabelling F2, 78 = 55,34 ****p<0.0001	EGFP+/VIAAT+ *p = 0.0158	
	EGFP+/ VIAAT+	SYN	4.11 ± 0.92 n = 9		EGFP+/VIAAT- ****p<0.0001	
		DA-FASS	18.76 ± 3.22 n = 19			
	EGFP+/ VIAAT-	SYN	25.96 ± 2.72 n = 9			
		DA-FASS	55.32 ± 4.28 n = 19			

Fig. 5h	Th- /VChT +	SYN	62.5 ± 2.08 n = 30	Interaction F2, 144 = 180,3 ****p<0.0001	SYN - DA- FASS	Two-way ANOVA
		DA-FASS	28.01 ± 1.34 n = 20	Condition F1, 144 = 0,01571 p = 0.9004	Th-/VChT+ ****p<0.0001	
				Immunolabelling F2, 144 = 412,2 ****p<0.0001	Th+/VChT+ ***p = 0.0011	
	Th+/VA ChT+	SYN	1.68 ± 0.37 n = 30		Th+/VChT- ****p<0.0001	
		DA-FASS	10.19 ± 0.65 n = 20			
	Th+/VA ChT-	SYN	35.23 ± 2.18 n = 30			
		DA-FASS	61.71 ± 1.19 n = 20			
Fig. 6a	Th	DA-FASS	0.1742 ± 0.003 n = 1175	****p<0.0001	Th - Labelling	Kruskal- Wallis
	Syncam2	DA-FASS	0.2852 ± 0.006 n = 949		Th vs. Syncam2 ****p<0.0001	
	D2R	DA-FASS	0.2982 ± 0.015 n = 181		Th vs. D2R ****p<0.0001	
	VChT	DA-FASS	0.3182 ± 0.017 n = 151		Th vs. VChT ****p<0.0001	
	VGLUT 1	DA-FASS	0.3813 ± 0.017 n = 193		Th vs. VGLUT1 ****p<0.0001	
	VIAAT	DA-FASS	0.3982 ± 0.015 n = 362		Th vs. VIAAT ****p<0.0001	
	VGLUT 2	DA-FASS	0.4077 ± 0.019 n = 150		Th vs. VGLUT2 ****p<0.0001	
	Stx4	DA-FASS	0.4965 ± 0.009 n = 880		Th vs. Stx4 ****p<0.0001	
	D1R	DA-FASS	0.5126 ± 0.022 n = 246		Th vs. D1R ****p<0.0001	
Fig. 7b	VGLUT 1venus- /Th+	SYN	55.06 ± 3.19 n = 19	Interaction F2,111 = 47,14 ****p<0.0001	SYN - VGLUT1- FASS	Two-way ANOVA
		VGLUT1- FASS	22.03 ± 1.55 n = 20	Condition F1, 111 = 0,002573 p = 0.9596	VGLUT1venus- /Th+ ****p<0.0001	
				Immunolabelling F2, 111 = 15,54 ****p<0.0001	VGLUT1venus+ /Th+ ***p = 0.0006	
	VGLUT 1venus+ /Th+	SYN	15.46 ± 2.6 n = 19		VGLUT1venus+ /Th- ***p = 0.0002	
		VGLUT1- FASS	31.5 ± 4.02 n = 20			
	VGLUT 1venus+ /Th-	SYN	28.14 ± 2.6 n = 19			
		VGLUT1- FASS	45.5 ± 3.16 n = 20			
Fig. 7c	Th	SYN	437200 ± 79456.71 n = 3		p = 0.5839	Unpaired t- test



		VGLUT1- FASS	357648 ± 107551.79 n = 3			
	VGLUT 1venus	SYN	391944.33 ± 60156.53 n = 3		*p = 0.0431	
		VGLUT1- FASS	670425.33 ± 73824.66 n = 3			
Fig. 7d	VGLUT1venus+					
		Th-	143489 ± 2037 n = 3609	****p<0.0001		Mann Whitney
		Th+	182796 ± 4513 n = 1206	****p<0.0001		Kolmogorov -Smirnov
	Bassoon+					
		Th-	143489 ± 2037 n = 3609	****p<0.0001		Mann Whitney
		Th+	182796 ± 4513 n = 1206	****p<0.0001		Kolmogorov -Smirnov
Fig. 7e						
	Th+/VG LUT1+	Th_Bassoo n+	39,67 ± 4,055 n = 84			descriptive
		Th_Bassoo n-	60,33 ± 4,055 n = 82			descriptive
	Bassoon +	Th_Bassoo n+	65498.8 ± 6546 n = 84			
		VGLUT1v enus Bass oon+	255181.0 ± 24922 n = 82	****p<0.0001		Mann Whitney
Fig. 7f						
	Homer+					
		Th-	55356 ± 1052 n = 1877	****p<0.0001		Mann Whitney
		Th+	64756 ± 1385 n = 1536	****p<0.0001		Kolmogorov -Smirnov
Fig. 7g						
	PSD95+					
		Th-	21758 ± 471.1 n = 2232	****p<0.0001		Mann Whitney
		Th+	20149 ± 580.9 n = 1533	***p = 0.0004		Kolmogorov -Smirnov
Fig. 7h	Synaptopodin1+					
		Th-	213786 ± 6158 n = 1528	**p = 0.0015		Mann Whitney
		Th+	382663 ± 36567 n = 725	*p = 0.0272		Kolmogorov -Smirnov
Fig. 7i	VGLUT 1venus+/ Synaptop odin1-	Th-	68.71 ± 1.17 n = 81	Interaction F1, 320 = 95,48 ****p<0.0001	Th- - Th+	Two-way ANOVA
		Th+	54.63 ± 1.7 n = 81	Condition F1, 320 = 0,1688 p = 0.6815	VGLUT1+ ****p<0.0001	
				Immunolabelling F1, 320 = 326,0 ****p<0.0001	VGLUT1+ Synaptopodin1+ ****p<0.0001	
	VGLUT 1venus+/ Synaptop odin1-	Th-	30.22 ± 0.92 n = 81			

	Synaptopodin1+					
		Th+	43.17 ± 1.6 n = 81			
Supplementary Fig.4	EGFP-/VGLUT 2+	SYN	44.55 ± 4.57 n = 6	Interaction F2, 54 = 80,90 ****p<0.0001	Singlets - FASS	Two-way ANOVA
		DA-FASS	8.57 ± 1.53 n = 14	Condition F1, 54 = 0,0001 p = 0.9912	VGLUT1+ ****p<0.0001	
				Immunolabelling F2, 54 = 293,7 ****p<0.0001	++ *p = 0.0332	
	EGFP+/VGLUT 2+	SYN	1.79 ± 1.14 n = 6		EGFP+ ****p<0.0001	
		DA-FASS	11.22 ± 1.38 n = 14			
	EGFP+/VGLUT 2-	SYN	53.65 ± 4.29 n = 6			
		DA-FASS	80.13 ± 2.27 n = 14			
Supplementary Fig.5e	All Singlets	SYN	81.68 ± 0.7955 N = 10		*p = 0.0198	Unpaired t test
		VGLUT1-FASS	86.05 ± 1.468 N = 11			
	SYN	VENUS - Singlets	52.71 ± 4.38 N = 10	Interaction F1, 38 = 72.11 ****p<0.0001	SYN - VGLUT1-FASS	Two-way ANOVA
		VENUS + Singlets	18.48 ± 3.08 N = 10	Gating F1, 38 = 0.6683 p = 0.4187	VENUS - Singlets ****p<0.0001	
	VGLUT 1-FASS	VENUS - Singlets	23.85 ± 3.053 N = 11	Condition F1, 38 = 0.4118 p = 0.5249	VENUS + Singlets ****p<0.0001	
		VENUS + Singlets	52,06 ± 4,02 N = 11			
Supplementary Fig.6a						
	Bassoon	VGLUT1+	93,37 ± 0,40 n = 4456			
		VGLUT1-/Th+	19,57 ± 3,73 n = 45			descriptive
Supplementary Fig.6b	Th+/Synaptopodin-	SYN	36.51 ± 1.49 n = 49	Interaction F2, 255 = 251,5 ****p<0.0001	Singlets - FASS	Two-way ANOVA
		DA-FASS	66.65 ± 0.95 n = 38	Condition F1, 255 = 7,774e-006 p = 0.9978	Th+/Synaptopodin- ****p<0.0001	
				Immunolabelling F2, 255 = 297,4 ****p<0.0001	Th+/Synaptopodin+ p = 0.9576	
	Th+/Synaptopodin+	SYN	18.59 ± 1.51 n = 49		Th-/Synaptopodin+ ****p<0.0001	
		DA-FASS	19.47 ± 0.84 n = 38			

	Th- /Synapto podin+	SYN	44.91 ± 1.72 n = 49			
		DA-FASS	13.9 ± 0.58 n = 38			
Supple mentary Fig.6c	Th	RIM1+	69,67 ± 4,3 n = 73			
		RIM1-	30,33 ± 4,3 n = 73			descriptive
	RIM1+	Th	31886 ± 2739 n = 73			
		VGLUT1v enus	255181.0 ± 24922 n = 74	***p = 0.0009		Mann Whitney

**Supplementary Table 3: Proteomics Dataset**

Accession	Coverage [%]	# Unique Peptides	Score Sequest HT: Sequest HT	Entrez Gene ID	Gene Symbol	# Razor Peptides	Abundance Ratio: (DA-FASS) / (SYN)	Abundance Ratio Adj. P-Value: (DA-FASS) / (SYN)
P16546	65	195	5133,76		Sptan1	0	1,22	6,95E-01
Q62261	60	150	2762,32	20742	Sptbn1	7	1,07	9,67E-01
Q9JHU4	42	196	1648,46	13424	Dync1h1	0	1,25	6,06E-01
Q68FD5	51	91	4778,24	67300	Cltc	0	1,14	8,70E-01
K2C1_HUMAN	70	44	11983,21			12	1,26	5,95E-01
Q9QXS1	43	197	1059	18810	Plec	3	1,15	8,37E-01
Q6PIC6	56	39	4985,81	232975	Atp1a3	3	1,10	9,34E-01
K22E_HUMAN	81	51	8081,59			14	1,34	3,61E-01
Q61879	53	101	1111,52	77579	Myh10	19	1,06	9,74E-01
Q8VDN2	51	37	3378,23	11928	Atp1a1	0	0,98	9,81E-01
Q6PIE5	54	39	3610,82	98660	Atp1a2	27	1,01	1,00E+00
G5E829	44	30	2356,23	67972	Atp2b1	5	0,93	9,36E-01
Q9QYX7	32	123	662,32	26875	Pclo	4	0,98	9,79E-01
Q9R0K7	46	36	2109,59	11941	Atp2b2	24	1,02	9,90E-01
O88737	39	101	978,92	12217	Bsn	1	0,90	8,85E-01
P39053	61	49	2052,86	13429	Dnm1	16	1,00	9,97E-01
Q8C8R3	35	96	1041,55	109676	Ank2	13	1,31	4,46E-01
O88935	58	27	1933,82	20964	Syn1	6	1,03	9,85E-01
K1C10_HUMAN	60	26	8256,42			20	1,27	5,46E-01
E9Q557	30	112	1229,56	109620	Dsp	0	1,03	9,86E-01
P63017	64	29	2583,46	15481	Hspa8	14	1,09	9,42E-01
P56480	48	21	3232,08	11947	Atp5f1b	0	0,73	2,60E-01
O08599	64	45	1984,97	20910	Stxbp1	1	0,93	9,56E-01
Q7TMM9	62	2	4324,27	22151	Tubb2a	8	1,11	9,21E-01
Q99104	41	85	1194,19	17918	Myo5a	0	1,16	8,10E-01
O08553	60	26	2077,38	12934	Dpysl2	5	0,98	9,77E-01
Q9CWF2	62	2	4244,39	73710	Tubb2b	0	1,09	9,43E-01
K1C9_HUMAN	76	38	5136,35			0	0,81	6,07E-01
Q8BPN8	31	80	584,48	235380	Dmxl2	2	1,18	7,79E-01
P60710	74	2	3031,11	11461	Actb	36	0,98	9,85E-01
Q9D6F9	62	8	3899,35	22153	Tubb4a	0	1,14	8,70E-01
Q64332	42	18	1553,11	20965	Syn2	1	1,03	9,85E-01
P99024	61	4	4269,14	22154	Tubb5	2	1,19	7,50E-01
P50516	55	34	1557,11	11964	Atp6v1a	0	1,16	8,10E-01
Q8CAQ8	58	45	1065,87	76614	Immt	0	0,97	9,76E-01
Q9DBG3	47	23	1220,75	71770	Ap2b1	29	1,09	9,44E-01
Q9ERD7	54	10	3304,9	22152	Tubb3	1	1,62	2,37E-02
P14873	36	68	554,4	17755	Map1b	1	1,05	9,76E-01

P16858	56	21	1474,42	14433	Gapdh	0	0,94	9,60E-01
P46460	54	52	1764,79	18195	Nsf	0	1,19	7,50E-01
Q99KI0	51	39	1535,43	11429	Aco2	0	0,69	1,22E-01
P13595	43	37	1553,74	17967	Ncam1	0	1,07	9,69E-01
P17426	49	35	1372,25	11771	Ap2a1	13	1,14	8,53E-01
P17182	62	28	1288,7	13806; 433182	Eno1	2	0,95	9,74E-01
Q9Z1G4	35	30	1264,68	11975	Atp6v0a1	0	1,02	9,96E-01
Q80TJ1	45	40	785,32	27062	Cadps	8	1,06	9,74E-01
Q7TSJ2	67	53	1015,41	17760	Map6	0	1,24	6,37E-01
P17710	43	43	1363,22	15275	Hk1	6	1,05	9,76E-01
Q4ACU6	48	65	855,92	58234	Shank3	2	1,20	7,46E-01
Q62108	40	32	1028,69	13385	Dlg4	2	0,97	9,76E-01
Q91VD9	53	37	1182,94	227197	Ndufs1	0	0,80	5,69E-01
P68369	59	9	3054,9	22142	Tuba1a	23	0,96	9,74E-01
P12960	43	39	964,72	12805	Cntn1	0	1,13	8,86E-01
Q7TPR4	54	24	711,66	109711	Actn1	4	1,15	8,41E-01
P17427	45	29	1191,78	11772	Ap2a2	0	1,10	9,34E-01
P52480	63	32	1241,64	18746	Pkm	0	0,91	9,19E-01
P05064	70	27	1254,57	11674	Aldoa	3	1,32	4,17E-01
P68368	53	8	2672,45	22145	Tuba4a	0	0,72	1,98E-01
P60879	76	21	1318,03	20614	Snap25	2	1,19	7,51E-01
P19096	27	61	561,73	14104	Fasn	0	1,15	8,42E-01
P58281	50	47	848,68	74143	Opa1	0	0,69	1,40E-01
Q9WV92	56	42	688,09	13823	Epb4113	4	1,02	9,94E-01
P07901	45	25	1185,58	15519	Hsp90aa1	0	1,09	9,42E-01
P11499	47	25	1124,89	15516	Hsp90ab1	19	1,04	9,77E-01
P38647	51	34	756,38	15526	Hspa9	0	0,84	7,39E-01
Q61316	59	39	702,35		Hspa4	6	1,08	9,56E-01
P61264	56	20	1178,54	56216	Stx1b	0	0,98	9,79E-01
P05214	46	6	2715,95	22144; 22147	Tuba3a; Tuba3b	0	1,08	9,56E-01
Q03265	56	33	1879,62	11946	Atp5fla	0	0,93	9,41E-01
Q02053	34	33	729,61	22201	Uba1	0	1,15	8,37E-01
Q6Q477	27	18	1133,86	381290	Atp2b4	0	0,95	9,64E-01
P06837	85	21	814,43	14432	Gap43	0	1,22	6,82E-01
P46096	52	19	1283,36	20979	Syt1	13	1,14	8,66E-01
P63038	53	35	1107,96	15510	Hspd1	0	1,04	9,76E-01
Q4KMM3	56	42	526,02	170719	Oxr1	0	0,83	6,74E-01
Q02257	48	28	1188,43	16480	Jup	7	1,02	9,94E-01
Q04447	55	19	1249,15	12709	Ckb	0	0,85	7,49E-01
Q920I9	39	52	692,76	104082	Wdr7	0	1,10	9,23E-01
Q922U2	36	14	3490,83	110308	Krt5	9	0,97	9,76E-01
P62259	78	22	1216,67	22627	Ywhae	3	0,86	7,86E-01
O55143	39	41	973,84	11938	Atp2a2	0	0,98	9,80E-01
Q61781	43	3	2944,49	16664	Krt14	10	1,15	8,42E-01
Q61644	73	36	774,14	23969	Pacsin1	0	0,93	9,42E-01
Q8CHC4	39	51	754,53		Synj1	0	1,17	8,09E-01

O35643	41	19	865,02	11764	Ap1b1	0	1,02	9,94E-01
Q71LX4	33	54	267,65	70549	Tln2	8	1,11	9,19E-01
Q76MZ3	48	24	725,24	51792	Ppp2r1a	0	1,03	9,83E-01
P24549	48	19	678,88	11668	Aldh1a1	12	3,45	6,00E-14
P28652	49	15	1057,84	12323	Camk2b	9	1,02	9,91E-01
P57780	53	27	555,74	60595	Actn4	18	0,91	9,12E-01
Q91XM9	46	31	610,04	23859	Dlg2	7	0,95	9,70E-01
Q8VDD5	28	44	325,18	17886	Myh9	1	0,86	7,77E-01
P62814	56	27	1004,09	11966	Atp6v1b2	0	1,18	7,79E-01
P50396	66	20	679,87	14567	Gdi1	9	0,95	9,74E-01
Q62420	48	13	811,31	20404	Sh3gl2	7	1,04	9,76E-01
Q64521	47	36	664,19	14571	Gpd2	0	0,90	8,91E-01
P26443	54	30	697,53	14661	Glud1	0	0,78	4,92E-01
ALBU_BO VIN	63	33	913,64	280717	ALB	7	0,56	2,12E-03
Q9QYR6	24	52	320,53	17754	Map1a	0	1,24	6,48E-01
P23819	37	29	633,93		Gria2	5	1,04	9,76E-01
P47857	44	24	677,38	18642	Pfkm	3	1,06	9,76E-01
O35526	48	21	859,23	20907	Stx1a	1	1,03	9,83E-01
P18872	52	16	1511,41	14681	Gnao1	2	0,97	9,76E-01
Q8QZT1	54	23	805,99	110446	Acat1	0	0,83	6,98E-01
Q6IFX2	36	6	1947,7	68239	Krt42	1	0,99	9,87E-01
Q9CZW5	48	29	673,1	28185	Tomm70	0	0,65	5,06E-02
P50446	38	3	1814,27	16687	Krt6a	21	0,92	9,23E-01
P17183	55	19	683,06	13807	Eno2	0	0,75	3,18E-01
D3Z7P3	45	26	532,29	14660	Gls	0	0,91	9,02E-01
P60469	39	43	425,79	76787	Ppfia3	3	1,08	9,56E-01
Q01853	51	35	531,46	269523	Vcp	0	1,13	8,86E-01
Q9QWL7	51	10	2258,36	16667	Krt17	27	1,18	7,74E-01
P28663	68	18	632,17	17957	Napb	5	1,04	9,78E-01
Q6ZQ38	34	41	611,6	71902	Cand1	2	1,03	9,82E-01
Q60597	40	39	526,18	18293	Ogdh	0	0,80	5,86E-01
Q91V14	24	25	819,22	57138	Slc12a5	5	0,98	9,85E-01
Q9QWI6	41	45	418,52	56013	Srcin1	0	1,12	8,94E-01
Q9JI91	49	27	525,03	11472	Actn2	0	1,20	7,33E-01
Q91V92	44	43	539,17	104112	Acly	0	1,04	9,78E-01
Q9DBJ1	57	11	748,51	18648	Pgam1	7	1,11	9,17E-01
O55131	47	24	747,42	235072	Septin7	1	1,10	9,34E-01
P20029	50	32	740,25	14828	Hspa5	0	0,97	9,77E-01
P56564	22	11	514,62	20512	Slc1a3	2	0,87	8,12E-01
P06745	45	27	896,42	14751	Gpi	0	1,10	9,34E-01
Q9Z2H5	44	30	469,07	13821	Epb4111	0	1,29	5,04E-01
Q810U3	31	37	637,85	269116	Nfasc	0	1,24	6,42E-01
Q5SQX6	34	23	607,36	76884	Cyfip2	22	1,00	9,99E-01
Q9DB77	47	20	881,71	67003	Uqcrc2	0	0,74	3,11E-01
P63101	79	18	1055	22631	Ywhaz	6	0,94	9,64E-01
Q8K2B3	48	28	587,19	66945	Sdha	0	0,79	4,99E-01

Q91XV3	85	16	546,47	70350	Basp1	0	0,84	7,09E-01
P05063	60	20	600,25	11676	Aldoc	0	0,88	8,41E-01
Q922S4	38	33	653,47	207728	Pde2a	0	0,86	7,86E-01
Q7TQF7	46	27	696,32	218038	Amph	2	1,18	7,79E-01
P09411	74	21	636,16	18655	Pgk1	7	1,11	9,16E-01
Q3UHHJ0	46	28	377,48	269774	Aak1	0	1,09	9,42E-01
Q9JME5	39	40	410,01	11775	Ap3b2	0	1,09	9,39E-01
Q9WUA3	37	28	452,23	56421	Pfkip	5	1,17	8,07E-01
Q9R1T4	41	9	719,13	56526	Septin6	0	1,09	9,39E-01
ALDOA_R ABIT	47	19	828,18			0	1,23	6,66E-01
Q8BKX1	65	30	628,91	108100	Baiap2	0	1,13	8,85E-01
Q8CI94	45	30	531,98	110078	Pygb	8	0,92	9,34E-01
Q02248	43	21	522,33	12387	Ctnnb1	0	1,17	7,91E-01
P12382	35	21	423,29	18641	Pfkl	0	1,01	1,00E+00
Q9Z1B3	34	39	415,85	18795	Plcb1	0	1,00	1,00E+00
Q61301	44	29	362,41	12386	Ctnna2	4	0,91	9,02E-01
P08249	69	21	1072,3	17448	Mdh2	0	0,79	5,33E-01
D3YVF0	50	23	731,38	238276	Akap5	0	0,78	4,66E-01
Q9ES97	41	29	542,49	20168	Rtn3	1	1,03	9,83E-01
P14094	38	18	911,79	11931	Atp1b1	0	0,98	9,83E-01
Q8BH59	39	26	1132,69	78830	Slc25a12	6	0,78	4,69E-01
F6SEU4	33	35	438,55	240057	Syngap1	1	1,09	9,51E-01
P68134	50	5	2049,61	11459	Acta1	0	0,57	3,07E-03
Q9QXZ0	10	65	105,97		Macf1	1	1,21	7,50E-01
P31324	57	17	512,32	19088	Prkar2b	4	0,92	9,30E-01
P47708	46	27	422,2	19894	Rph3a	0	1,23	6,58E-01
Q8BFR5	54	21	570,41	233870	Tufm	0	0,92	9,31E-01
Q9Z2Y3	76	27	703,02	26556	Homer1	1	0,94	9,59E-01
P68033	45	4	2037,32	11464	Actc1	0	0,45	3,99E-06
P17156	40	10	995,63	15512	Hspa2	2	1,12	9,15E-01
P16330	53	30	832,02	12799	Cnp	0	0,89	8,54E-01
E9Q3L2	23	50	337,62	224020	Pi4ka	0	0,88	8,41E-01
P70704	33	37	491,24	11980	Atp8a1	0	0,94	9,56E-01
P43006	34	19	1106,81	20511	Slc1a2	0	0,91	9,16E-01
Q60864	57	39	396,04	20867	Stip1	0	0,93	9,48E-01
P15508	29	47	208,99		Sptb	0	1,39	2,63E-01
Q8K0T0	44	20	628,57	104001	Rtn1	0	1,09	9,47E-01
P46660	58	29	621,57	226180	Ina	0	1,22	6,94E-01
P40142	39	29	554,04	21881	Tkt	0	0,99	9,95E-01
P28660	34	36	479,02	50884	Nckap1	1	0,94	9,63E-01
P48722	42	30	415,57	18415	Hspa4l	0	1,17	7,98E-01
Q99P72	37	34	482,17	68585	Rtn4	0	1,16	8,09E-01
P11798	44	19	1004,59	12322	Camk2a	9	1,10	9,23E-01
Q80TE7	36	40	407,17	242274	Lrrc7	3	0,86	7,89E-01
Q8CA95	38	32	567,47	23984	Pde10a	0	0,88	8,53E-01
Q62188	46	17	635,22	22240	Dpysl3	1	1,15	8,35E-01

P62737	42	4	1789,42	11475	Acta2	0	0,45	3,99E-06
Q9Z0P4	58	20	507,58	18483	Palm	2	0,87	8,25E-01
Q9Z1G3	65	31	608,28	66335	Atp6v1c1	0	1,16	8,26E-01
Q8C1B7	48	13	719,3	52398	Septin11	18	1,10	9,34E-01
Q9JIS5	25	18	793,47	64051	Sv2a	0	1,01	1,00E+00
Q9Z2Q6	43	18	546,08	18951	Septin5	1	1,13	8,82E-01
P70398	21	50	176,02	22284	Usp9x	0	1,06	9,74E-01
Q61699	47	30	370,07	15505	Hsph1	0	1,11	9,16E-01
P84091	58	25	641,11	11773	Ap2m1	0	1,25	6,23E-01
O08788	33	35	249,26	13191	Dctn1	0	1,32	4,56E-01
Q8K596	29	21	626,13	110891	Slc8a2	1	0,96	9,74E-01
P40124	57	21	446,56	12331	Cap1	1	0,88	8,51E-01
Q6P9K9	23	25	356,9	18191	Nrxn3	6	1,18	7,89E-01
O08917	57	21	383,56	14251	Flot1	0	1,00	1,00E+00
P11881	19	53	204,63	16438	Itpr1	0	1,07	9,70E-01
P05201	64	25	763,62	14718	Got1	0	1,04	9,77E-01
P63268	39	3	1786,67	11468	Actg2	0	0,45	3,99E-06
Q05920	32	32	394,15		Pc	0	0,73	2,61E-01
Q60932	59	15	756,81	22333	Vdac1	2	0,84	7,33E-01
P08553	36	30	525,54	18040	Nefm	4	1,14	8,66E-01
Q9Z2K1	24	8	2452,76	16666	Krt16	0	0,86	7,90E-01
Q9CZ13	44	18	646,85	22273	Uqerc1	1	0,83	6,74E-01
O08532	26	27	334,25	12293	Cacna2d1	1	0,86	7,89E-01
P05202	47	23	805,54	14719	Got2	0	0,99	9,85E-01
P56399	34	25	488,45	22225	Usp5	0	1,09	9,42E-01
Q61548	24	20	733,3	20616	Snap91	3	1,10	9,34E-01
Q8VD37	47	28	330,25	73094	Sgip1	0	1,18	7,77E-01
Q91V41	78	16	571,04	68365	Rab14	2	1,11	9,16E-01
P08113	38	30	359,39	22027	Hsp90b1	0	0,83	6,94E-01
P35564	39	24	405,44	12330	Canx	0	0,81	6,23E-01
Q11011	35	31	482,15	19155	Npepps	0	1,08	9,60E-01
B1AWN6	19	21	216,93	110876	Scn2a	20	1,09	9,36E-01
TRYP_PIG	50	9	10937,77			0	1,07	9,71E-01
P35486	54	29	531,05	18597	Pdha1	1	0,86	7,90E-01
P50518	51	19	660,91	11973	Atp6v1e1	0	1,17	8,07E-01
O35927	31	29	358,55	18163	Ctnnd2	5	1,04	9,76E-01
Q99KJ8	53	17	352,5	69654	Dctn2	0	1,09	9,44E-01
KRHB6_HUMAN	53	7	295,74	3892	KRT86	8	2,20	9,01E-06
DHE3_BOVIN	36	22	528,11	281785	GLUD1	0	0,81	5,97E-01
Q8BVE3	48	22	396,68	108664	Atp6v1h	0	1,09	9,39E-01
Q80TZ3	29	26	424,74	72685	Dnajc6	3	1,32	4,06E-01
Q8VEM8	39	16	1019,25	18674	Slc25a3	0	0,85	7,41E-01
Q8BMF4	29	17	538,19	235339	Dlat	0	0,73	2,39E-01
O88533	31	14	347,65	13195	Ddc	0	4,01	1,60E-16
Q61598	59	15	354,8	14569	Gdi2	0	0,89	8,54E-01
Q9D051	42	14	503,14	68263	Pdhb	0	0,87	8,09E-01



Q64487	20	20	324,15	19266	Ptprd	10	1,03	9,85E-01
Q91WD5	37	16	480,05	226646	Ndufs2	0	0,81	6,06E-01
P16125	43	16	669,58	16832	Ldhb	0	1,03	9,83E-01
Q8K1M6	46	30	354,23	74006	Dnm11	0	1,23	6,61E-01
Q8BW75	44	18	400,14	109731	Maob	3	0,93	9,40E-01
P20357	25	37	178,12	17756	Map2	0	1,08	9,70E-01
Q8BFZ3	39	4	875,69	238880	Actbl2	0	0,71	5,00E-01
Q8BZ98	30	14	561,75	103967	Dnm3	6	1,10	9,36E-01
P14824	51	33	286,14	11749	Anxa6	0	1,05	9,76E-01
Q9CQV8	59	8	696,38	54401	Ywhab	0	0,90	8,86E-01
P97427	35	12	627,85	12933	Crmp1	2	1,16	8,25E-01
P48962	57	13	987,34	11739	Slc25a4	11	0,80	5,72E-01
Q8K0U4	43	30	391,99	73442	Hspa12a	0	0,92	9,33E-01
P97797	35	13	371,19	19261	Sirpa	0	0,90	8,93E-01
P17751	66	17	757,85	21991	Tpi1	0	1,10	9,34E-01
Q9Z218	32	26	417,5	13483	Dpp6	3	1,08	9,60E-01
P63318	44	24	372,36	18752	Prkcg	4	0,81	6,35E-01
O70161	36	19	208,88	18717	Pip5k1c	0	1,09	9,60E-01
E9PUL5	53	11	345,54	69017	Prrt2	0	0,87	8,10E-01
Q6PB66	25	34	183,07	72416	Lrpprc	0	0,79	5,35E-01
B0V2N1	20	21	289,01	19280	Ptprs	0	1,11	9,34E-01
Q3UHL1	49	21	347,99	235604	Camkv	0	1,18	7,86E-01
P07356	47	20	520,58	12306	Anxa2	0	0,94	9,60E-01
P15105	48	19	515,74	14645	Glul	0	0,87	8,07E-01
P47757	54	17	344,96	12345	Capzb	0	1,02	9,91E-01
P27773	43	23	452,98	14827	Pdia3	0	0,90	8,95E-01
Q9Z210	34	25	356,68	56384	Letm1	0	0,75	3,18E-01
O08539	39	20	507,16	30948	Bin1	0	1,03	9,85E-01
O70589	31	28	294,42	12361	Cask	0	1,12	8,91E-01
Q9QXS6	35	23	309,32	56320	Dbn1	0	1,02	9,96E-01
Q7TMB8	22	8	397,1	20430	Cyfp1	0	0,77	3,85E-01
Q9DB05	61	12	352,88	108124	Napa	0	1,03	9,93E-01
P06151	44	17	531,85	16828	Ldha	1	0,92	9,34E-01
Q9EQH3	32	25	367,3	65114	Vps35	0	1,09	9,50E-01
Q8CHH9	38	17	424,64	20362	Septin8	0	0,98	9,81E-01
KRHB5_H UMAN	51	6	250,66	3891	KRT85	27	2,27	3,20E-06
Q9DCX2	54	12	461,55	71679	Atp5pd	0	0,79	5,01E-01
P63044	69	6	464	22318	Vamp2	2	1,42	1,91E-01
Q9R0P9	63	13	538,74	22223	Uchl1	0	1,28	5,43E-01
Q60634	54	23	269,56	14252	Flot2	0	0,99	9,89E-01
Q9WU78	39	29	215,65	18571	Pdcd6ip	0	1,08	9,56E-01
P08551	37	24	367,01	18039	Nefl	0	1,06	9,74E-01
P68254	47	11	607,63	22630	Ywhaq	0	0,88	8,26E-01
Q6PH08	35	28	266,74	238988	Erc2	5	1,35	3,45E-01
KRHB3_H UMAN	42	2	277,23			0	0,51	1,51E-02
P70175	31	23	221,57	53310	Dlg3	0	1,06	9,76E-01

P68404	36	15	363,09	18751	Prkcb	4	1,08	9,56E-01
P10637	32	22	437,39	17762	Mapt	0	0,98	9,85E-01
Q9CS84	22	24	257,11	18189	Nrxn1	3	1,00	9,99E-01
P51881	53	11	846,87	11740	Slc25a5	0	0,72	2,06E-01
Q91V61	60	16	520,12	94280	Sfxn3	2	0,78	4,72E-01
Q99N28	42	12	385,96	94332	Cadm3	0	0,97	9,76E-01
P62874	33	7	756,38	14688	Gnb1	6	0,77	4,48E-01
P61922	34	16	486,71	268860	Abat	0	0,70	1,64E-01
Q61490	31	20	345,97	11658	Alcam	0	1,06	9,74E-01
Q91ZX7	9	36	112,42	16971	Lrp1	2	0,89	8,57E-01
Q8R0Y6	35	27	210,87	107747	Aldh1l1	0	0,85	7,48E-01
O08749	39	18	618,89	13382	Dld	0	0,88	8,33E-01
P60904	46	10	396,22	13002	Dnaje5	0	1,27	5,48E-01
P61982	58	8	668,79	22628	Ywhag	5	1,04	9,76E-01
P63328	31	11	671,42	19055	Ppp3ca	6	0,95	9,70E-01
Q811D0	26	14	310,56	13383	Dlg1	0	1,18	7,77E-01
Q91ZA3	36	25	239,51	110821	Pcca	0	0,64	4,82E-02
P58252	31	26	274,73	13629	Eef2	0	1,01	1,00E+00
Q6ZQ18	26	19	233,58	668212	Efr3b	1	0,92	9,24E-01
O35136	31	23	257,97	17968	Ncam2	0	1,08	9,59E-01
O88342	37	19	343,51	22388	Wdr1	0	1,01	1,00E+00
P42932	45	22	393,78	12469	Cct8	0	1,04	9,77E-01
ALBU_HUMAN	41	20	505,78	213	ALB	0	0,80	5,96E-01
Q8CGY8	28	28	229,93	108155	Ogt	0	1,08	9,56E-01
O35098	35	13	216,66		Dpysl4	0	1,31	4,42E-01
Q91WC3	41	27	239,22	216739	Acsl6	1	0,88	8,56E-01
Q9D0M3	34	10	468,71	66445	Cycl	0	0,86	7,90E-01
P08752	49	8	622,09	14678	Gnai2	0	0,90	8,91E-01
P35700	68	11	432,11	18477	Prdx1	9	1,33	3,97E-01
Q80TL4	51	19	285,75	230085	Phf24	0	1,09	9,38E-01
P80318	45	24	212,87	12462	Cct3	0	1,19	7,60E-01
P35802	20	9	467,92	234267	Gpm6a	0	0,89	8,85E-01
Q9D0K2	31	15	287,22	67041	Oxct1	0	0,86	7,78E-01
AGG56535.I	42	12	368,16			0	5,12	1,60E-16
Q99PU5	33	19	232,58	94180	Acsbg1	0	0,94	9,56E-01
P97807	40	15	351,81	14194	Fh	0	0,82	6,57E-01
Q99PT1	54	9	306,55	192662	Arhgdia	0	0,92	9,22E-01
Q9Z1S5	44	16	417,01	24050	Septin3	0	0,92	9,34E-01
P24529	41	19	256,87	21823	Th	0	4,52	1,60E-16
Q8R1Q8	48	23	250,14	235661	Dync1li1	1	1,06	9,74E-01
Q8BGZ7	29	5	1120,73	109052	Krt75	1	1,08	9,69E-01
Q9EPN1	15	34	104,37	26422	Nbea	0	1,04	9,82E-01
P10852	30	16	600,45	17254	Slc3a2	0	1,05	9,76E-01
P63011	51	6	909,09	19339	Rab3a	1	1,09	9,48E-01
P23818	31	23	305,7	14799	Grial	2	1,11	9,22E-01
P70441	53	17	218,16	26941	Slc9a3r1	0	1,05	9,76E-01

B2RSH2	44	9	629,06	14677	Gnai1	6	0,81	6,36E-01
P70168	27	19	220,2	16211	Kpnb1	0	1,06	9,74E-01
Q8K212	37	30	225,15	107975	Pacs1	0	1,18	7,97E-01
Q03137	24	17	212,74	13838	Epha4	2	1,14	8,85E-01
P84309	20	21	216,43	224129	Adcy5	1	0,73	2,47E-01
KRHB4_HUMAN	48	23	417,99			1	1,11	9,19E-01
Q8JZQ2	29	25	230,23	69597	Afg3l2	0	0,76	4,02E-01
O70318	32	25	176,97	13822	Epb41l2	0	0,87	8,09E-01
P63085	47	11	389,32	26413	Mapk1	8	1,16	8,10E-01
Q8K021	41	10	345,45	107767	Scamp1	0	1,22	6,94E-01
Q9Z219	48	23	317,15	20916	Sucla2	0	0,89	8,53E-01
Q4KUS2	19	35	140,61	382018	Unc13a	0	1,10	9,24E-01
Q8BJI1	24	15	290,3	229706	Slc6a17	0	0,94	9,60E-01
P09103	35	18	202,09	18453	P4hb	0	0,93	9,36E-01
Q8BLQ9	41	16	281,82	239857	Cadm2	0	1,28	5,42E-01
Q9Z2W9	28	18	259,48	53623	Gria3	2	0,99	9,87E-01
P97300	34	16	462,22	20320	Nptn	0	1,09	9,48E-01
TAU_HUMAN	20	16	417,45			0	0,98	9,78E-01
P02535	22	3	3020,19	16661	Krt10	0	3,77	4,06E-05
Q923T9	28	6	467,57	12325	Camk2g	0	1,00	9,91E-01
P80314	38	19	245,98	12461	Cct2	0	1,21	7,25E-01
P68181	40	7	350,82	18749	Prkacb	13	1,03	9,87E-01
P53810	65	17	174,71	18738	Pitpna	3	1,11	9,19E-01
O54983	34	11	483,93	12971	Crym	0	0,87	8,05E-01
P68510	58	12	629,08	22629	Ywhah	3	0,90	8,89E-01
Q6NXX7	29	21	349,87	269109	Dpp10	0	0,89	8,57E-01
P14152	43	14	615,45	17449	Mdh1	0	1,05	9,76E-01
P80315	45	21	213,98	12464	Cct4	1	1,01	1,00E+00
P47754	67	11	276,73	12343	Capza2	2	1,04	9,76E-01
Q91YT0	36	18	380,74	17995	Ndufv1	0	0,80	5,47E-01
Q8BYR5	21	17	167,27	320405	Cadps2	0	1,62	2,37E-02
Q8BG39	24	14	418,51	64176	Sv2b	2	0,96	9,76E-01
O55106	32	16	197,83	268980	Strn	2	0,78	4,82E-01
P17742	63	11	336	268373	Ppia	0	0,87	8,26E-01
P48453	31	9	409,29	19056	Ppp3cb	0	0,95	9,70E-01
CATA_HUMAN	33	16	293,24			4	0,93	9,39E-01
P62761	70	14	208,53	26950	Vsnl1	3	1,20	7,33E-01
Q80U63	28	20	193,54	170731	Mfn2	0	0,88	8,43E-01
P62880	32	3	685,85	14693	Gnb2	3	0,76	3,75E-01
Q9D6R2	43	17	566,42	67834	Idh3a	0	0,85	7,46E-01
P63005	46	18	257,37	18472	Pafah1b1	1	1,02	9,98E-01
Q9CWZ7	62	19	332,19	108123	Napg	0	1,07	9,71E-01
PPIA_HUMAN	57	10	312,06			0	0,88	8,50E-01
O35945	28	4	243,14	26358	Aldh1a7	0	4,30	6,26E-06

Q8BX70	11	35	46,46	320528	Vps13c	0	0,96	9,74E-01
P53994	69	8	299,03	59021	Rab2a	8	1,10	9,25E-01
Q921M7	42	9	211,56	223601	Cyrib	4	1,07	9,72E-01
O55042	57	6	426,58	20617	Snca	4	0,91	9,09E-01
P05132	32	6	340,62	18747	Prkaca	0	0,97	9,76E-01
A2AN08	8	40	50,97	69116	Ubr4	0	1,22	6,92E-01
P42859	12	33	79,6		Htt	0	1,19	7,60E-01
P11627	19	21	186,89		Llcam	0	0,94	9,64E-01
Q9R111	44	22	309,64	14544	Gda	0	0,81	6,07E-01
P19783	60	15	432,3	12857	Cox4i1	0	0,81	6,28E-01
Q9QYC0	28	17	227,31	11518	Add1	1	1,17	8,05E-01
P47738	34	15	242,75	11669	Aldh2	0	0,75	3,15E-01
E9Q401	8	31	51,6	20191	Ryr2	5	1,01	1,00E+00
Q8VHW2	42	10	180,6		Cacng8	0	0,99	9,91E-01
O08709	64	15	265,89	11758	Prdx6	0	0,82	6,58E-01
Q3UV17	19	7	871,98	77055	Krt76	2	1,29	4,83E-01
P61161	31	12	312,46	66713	Actr2	0	0,96	9,74E-01
Q60902	28	21	124,31	13859	Eps15l1	0	0,90	8,81E-01
Q9CZS1	36	16	209,41	72535	Aldh1b1	1	0,66	7,46E-02
O70443	52	16	283,76	14687	Gnaz	0	0,97	9,76E-01
Q8BWF0	35	17	302,99	214579	Aldh5a1	0	0,97	9,76E-01
Q3UNH4	30	23	171,81	26913	Gprin1	0	0,88	8,26E-01
Q6PHZ2	31	8	401,24	108058	Camk2d	0	1,29	5,02E-01
Q9CQQ7	38	16	353,34	11950	Atp5pb	0	0,82	6,58E-01
Q80UG2	18	20	100,5	243743	Plxna4	11	0,93	9,56E-01
Q9WV34	45	21	285,18	50997	Mpp2	2	0,99	9,91E-01
K1H1_HUMAN	56	4	580,53			1	1,00	9,91E-01
P28738	28	14	146,44	16574	Kif5c	8	1,24	6,21E-01
P21279	49	12	288,8	14682	Gnaq	7	0,89	8,53E-01
K1HB_HUMAN	54	5	549,56	3884	KRT33B	17	1,87	9,82E-04
P26645	55	10	191,05	17118	Marcks	0	0,93	9,42E-01
Q9CYT6	41	18	309,94	67252	Cap2	0	0,88	8,32E-01
Q6ZPE2	20	31	99,06	77980	Sbfl	0	0,99	9,94E-01
G5E8K5	13	14	150,72	11735	Ank3	0	0,80	6,23E-01
P31648	18	8	243,08	232333	Slc6a1	0	1,04	9,78E-01
Q3TXX4	20	11	435,36	72961	Slc17a7	3	0,97	9,76E-01
Q9D6M3	42	9	420,88	68267	Slc25a22	3	0,85	7,61E-01
P11983	39	20	283,34	21454	Tcp1	0	1,12	8,93E-01
Q9Z0X1	29	15	199,27	26926	Aifm1	0	0,76	3,03E-01
Q9CZC8	38	14	200,36	69938	Scrn1	0	1,08	9,55E-01
Q9QXL2	14	18	189,94	16564	Kif21a	1	1,22	7,20E-01
K1HA_HUMAN	58	2	224,8			6	1,19	7,71E-01
Q60931	40	10	402,3	22335	Vdac3	0	0,86	7,77E-01
P10126	30	8	435,39	13627	Eef1a1	9	1,05	9,76E-01
Q9Z0E0	28	19	318,13	26562	Ncdn	0	0,96	9,76E-01

Q9CR62	55	16	377,57	67863	Slc25a11	0	0,94	9,56E-01
Q80TR1	19	19	221,84	330814	Adgr11	2	1,06	9,74E-01
P62823	48	7	605,55	67295	Rab3c	2	1,27	5,50E-01
Q64727	30	29	130,67	22330	Vcl	0	1,05	9,76E-01
Q01065	36	16	203,09	18574	Pde1b	2	0,81	6,23E-01
P80316	40	20	180,52	12465	Cct5	0	1,08	9,56E-01
Q91V12	30	11	218,11	70025	Acot7	0	1,17	8,25E-01
P62821	68	8	456,14	19324	Rab1A	4	1,19	7,61E-01
Q60598	42	21	186,64	13043	Ctnn	0	1,08	9,56E-01
Q8BMS1	27	19	222,88	97212	Hadha	0	1,03	9,85E-01
P67778	56	14	278,51	18673	Phb	0	0,85	7,61E-01
Q62465	35	11	258,46	26949	Vat1	0	1,65	1,58E-02
Q8BUV3	35	19	153,71	268566	Gphn	0	1,16	8,45E-01
P10649	65	16	294,11	14862	Gstm1	1	0,96	9,76E-01
O54991	18	21	203,03	53321	Cntnap1	0	0,96	9,74E-01
Q8CC35	30	17	132,01		Synpo	0	1,02	1,00E+00
Q9EQ20	33	16	177,43	104776	Aldh6a1	0	0,79	5,25E-01
Q8JZW4	35	19	229	240058	Cpne5	1	1,00	9,96E-01
Q3UM45	54	20	204,31	66385	Ppp1r7	0	0,88	8,34E-01
Q9QXY6	30	13	265,7	57440	Ehd3	8	1,04	9,78E-01
P46097	30	4	462,78	20980	Syt2	0	1,07	9,74E-01
Q3UVX5	21	24	247,98	108071	Grm5	0	0,87	8,07E-01
Q61696	33	9	326,29	193740	Hspa1a	6	1,05	9,76E-01
P17879	33	9	326,29	15511	Hspa1b	0	1,05	9,76E-01
Q80U28	19	26	129,67	228355	Madd	0	1,25	6,29E-01
P32037	17	10	247,63	20527	Slc2a3	0	0,94	9,64E-01
Q6URW6	15	21	131,56	71960	Myh14	0	0,84	6,72E-01
Q80UG5	34	21	256,38	53860	Septin9	0	1,00	1,00E+00
P14211	37	12	195,36	12317	Calr	0	0,77	4,33E-01
Q8CGK3	25	22	160,37	74142	Lonp1	0	0,80	5,41E-01
Q01097	18	25	169,14	14812	Grin2b	0	1,04	9,78E-01
Q60930	39	10	507,97	22334	Vdac2	0	0,73	2,50E-01
P15116	24	12	170,5	12558	Cdh2	2	0,98	9,83E-01
Q99LC5	43	11	134,38	110842	Etfp	0	0,85	7,50E-01
O89053	37	20	278,49	12721	Coro1a	0	0,93	9,39E-01
O35633	25	13	268,43	22348	Slc32a1	0	0,86	7,82E-01
P28740	28	21	198,79	16563	Kif2a	0	1,35	4,04E-01
Q80SW1	28	6	247,89	229709	Ahcyl1	13	0,95	9,74E-01
P23242	32	9	209,89	14609	Gja1	0	0,98	9,83E-01
Q9CZU6	33	18	429,28	12974	Cs	0	0,81	6,17E-01
Q9CQA3	44	15	285,89	67680	Sdhd	0	0,84	7,38E-01
P14231	37	10	292,24	11932	Atp1b2	0	0,96	9,74E-01
P61027	55	11	507,8	19325	Rab10	1	1,15	8,37E-01
Q9CVB6	40	14	186,04	76709	Arpc2	0	0,96	9,76E-01
Q8BVI4	47	7	152,15	110391	Qdpr	0	0,89	7,99E-01
O35129	55	15	406,82	12034	Phb2	0	0,94	9,56E-01
Q61553	40	19	261,85	14086	Fscn1	0	0,92	9,21E-01

O88447	35	15	174,78		Klc1	4	1,22	7,09E-01
Q9DCT2	41	13	167,61	68349	Ndufs3	0	0,80	5,64E-01
Q9JJK2	37	14	180,84	71835	Lanc12	0	1,03	9,85E-01
Q8BIZ1	11	16	268,49	77531	Anks1b	0	1,02	9,97E-01
Q9EQF6	31	18	169,51	65254	Dpysl5	0	1,20	7,38E-01
Q8BKZ9	37	14	238,82	27402	Pdhx	0	1,04	9,77E-01
Q810U4	20	19	170,46	319504	Nrcam	0	1,10	9,34E-01
Q9QYG0	40	9	218,56	29811	Ndrp2	0	1,04	9,76E-01
Q8BWS5	30	17	156,06	243385	Gprin3	0	0,91	9,07E-01
P19157	56	9	141,85	14870	Gstp1	2	0,85	7,52E-01
Q9JKC6	70	10	152,78	57754	Cend1	0	0,94	9,56E-01
E9Q6P5	27	20	113,66	104718	Ttc7b	0	0,99	9,85E-01
Q68FF6	29	18	163,67	216963	Git1	0	1,17	8,07E-01
Q60625	22	16	196,07	15898	Icam5	0	1,23	7,09E-01
Q9ESW4	44	15	203,5	69923	Agk	0	0,99	9,85E-01
Q9CWK8	37	14	130,04	67804	Snx2	2	1,07	9,73E-01
Q91VN4	43	11	166,31	66098	Chchd6	0	0,82	6,69E-01
Q8BRT1	21	19	116,42	76499	Clasp2	3	1,13	8,70E-01
Q61327	26	17	403,45	13162	Slc6a3	1	2,66	8,05E-09
Q9JJY3	29	14	216,78	58994	Smpd3	0	0,89	8,68E-01
Q8BGH2	40	18	191,08	68653	Samm50	0	0,76	3,87E-01
P16054	25	19	112,73	18754	Prkce	0	1,02	1,00E+00
P12367	32	7	221,7		Prkar2a	0	1,23	6,80E-01
P04104	10	3	2720,03	16678	Krt1	1	1,24	7,36E-01
Q8CGK7	42	10	417,97	14680	Gnal	3	0,87	8,01E-01
Q9D6J6	50	10	266,04	72900	Ndufv2	0	0,66	5,63E-02
K1H4_HUMAN	45	6	169,92			0	4,45	1,60E-16
Q91VR2	39	14	398,95	11949	Atp5f1c	0	0,70	1,44E-01
Q6WVG3	41	11	165,22	239217	Kctd12	2	0,76	4,04E-01
Q8VDM4	24	19	144,85	21762	Psmd2	0	1,12	9,12E-01
Q99LC3	31	15	266,02	67273	Ndufa10	0	0,78	4,50E-01
Q9WTT4	42	6	128,5	66237	Atp6v1g2	0	1,20	7,39E-01
Q9R1Q8	67	14	262,99	56370	Tagln3	0	1,35	3,45E-01
Q8VED5	18	3	1425,55	223917	Krt79	1	1,33	6,70E-01
P31938	24	7	238,8	26395	Map2k1	6	1,01	1,00E+00
P18760	64	10	281,12	12631	Cfl1	3	0,94	9,64E-01
P30275	32	15	219,4	12716	Ckmt1	0	0,99	9,87E-01
Q64133	33	15	244,19	17161	Maoa	0	1,18	7,74E-01
P35438	23	24	271,81	14810	Grin1	0	0,98	9,81E-01
ADH1_YEAST	42	14	163,31			0	1,01	1,00E+00
Q6IFZ6	15	4	2408,92	406220	Krt77	0	1,01	1,00E+00
P01831	33	6	618,17	21838	Thy1	0	0,97	9,76E-01
P51863	41	17	255,93	11972	Atp6v0d1	0	1,19	7,62E-01
Q62418	38	14	120,77	13169	Dbnl	0	0,99	9,81E-01
Q99KY4	17	19	111,09	231580	Gak	0	1,18	8,01E-01
Q3V3R1	25	21	152,87	270685	Mthfd11	0	1,04	9,78E-01

Q8BGQ7	22	18	131,1	234734	Aars1	0	1,00	1,00E+00
P70404	36	13	208,25	15929	Idh3g	0	0,96	9,76E-01
Q9D8Y0	49	15	175,48		Efhd2	0	0,89	8,58E-01
Q9EQZ6	24	24	124,07	56508	Rapgef4	0	1,00	1,00E+00
P57746	44	14	190,94	73834	Atp6v1d	0	1,17	8,07E-01
Q9Z1L5	18	19	166,03	12294	Cacna2d3	0	0,86	7,99E-01
Q68FL4	24	5	232,8	74340	Ahcyl2	0	1,10	9,50E-01
PRDX1_H UMAN	57	7	394,73	100994 710; 456537; 5052	PRDX1	2	1,47	1,25E-01
Q8C419	18	18	143,09	241263	Gpr158	0	1,07	9,74E-01
Q3UHK6	11	25	66,34	23966	Tenm4	6	1,14	8,66E-01
Q9D1A2	34	15	168,2	66054	Cndp2	0	1,02	9,94E-01
Q921G7	33	18	143,22	66841	Etfdh	0	0,94	9,55E-01
Q9QYS2	21	16	226,78	108069	Grm3	0	0,87	8,02E-01
P21836	28	14	115,95	11423	Ache	0	1,26	6,37E-01
P70296	63	8	258,68	23980	Pebp1	0	1,16	8,19E-01
Q8R3V5	31	14	228,06	227700	Sh3glb2	1	1,13	8,89E-01
Q8CAA7	26	17	182,64	70974	Pgm211	0	1,10	9,45E-01
Q9CZ44	53	15	177,96	386649	Nsfl1c	0	0,95	9,59E-01
Q9EPJ9	39	12	111,95	228998	Arfgap1	0	1,15	8,42E-01
Q9JM52	19	13	101,79	50932	Mink1	8	0,94	9,62E-01
Q14BI2	20	17	167,78	108068	Grm2	3	0,96	9,76E-01
Q61792	45	13	213,86	16796	Lasp1	1	1,02	9,96E-01
Q8BLE7	19	11	209,28	140919	Slc17a6	0	1,08	9,59E-01
Q9WV55	41	9	225,82	30960	Vapa	1	1,04	9,76E-01
P48320	24	10	134,1	14417	Gad2	1	0,96	9,74E-01
Q80XN0	35	11	180,8	71911	Bdh1	0	0,72	2,11E-01
P80317	28	15	186,71	12466	Cct6a	0	1,17	8,06E-01
O88448	35	14	193,81		Klc2	0	1,21	7,02E-01
P21278	42	10	205,75	14672	Gna11	0	0,91	9,16E-01
Q9DBF1	32	16	159,84	110695	Aldh7a1	0	0,81	6,06E-01
Q8R429	15	14	255,53	11937	Atp2a1	0	0,99	9,91E-01
P31650	19	12	194,74	243616	Slc6a11	1	0,92	9,34E-01
Q9Z268	23	16	145,25	19415	Rasal1	0	1,07	9,66E-01
Q99JY9	36	12	215,92	74117	Actr3	2	0,94	9,56E-01
Q3UVL4	24	16	111,97	68505	Vps51	0	1,02	1,00E+00
O88844	36	13	164,96	15926	Idh1	0	0,99	9,93E-01
Q3UMR5	27	11	143,37	215999	Mcu	0	0,70	1,69E-01
P70206	14	17	82,47	18844	Plxna1	1	1,01	1,00E+00
Q9ER00	45	10	136,44	100226	Stx12	0	1,08	9,66E-01
Q8VDQ8	32	12	170,47	64383	Sirt2	0	0,89	8,82E-01
Q6P9K8	20	18	119,3	268932	Caskin1	0	1,21	7,09E-01
Q6NZL0	22	19	179,59	67412	Soga3	0	0,92	9,24E-01
Q9CPW0	15	16	145,96	66797	Cntnap2	0	1,04	9,78E-01
P35492	22	15	106,96	15109	Hal	0	1,05	9,76E-01
P20444	21	6	157,52	18750	Prkca	0	1,62	2,69E-02

Q80Z24	39	12	202,95	320840	Negr1	0	0,82	6,42E-01
Q148V7	20	21	106,21	227446	Relch	0	1,01	9,99E-01
P51150	65	13	216,29	19349	Rab7a	0	1,05	9,76E-01
P26040	24	9	157,59	22350	Ezr	9	0,82	6,46E-01
Q80TB8	40	15	206,09	270097	Vat11	0	1,26	6,01E-01
Q3UHB1	30	17	176,28	103466	Nt5dc3	0	0,99	9,85E-01
P46471	47	20	133,31	19181	Psmc2	0	1,14	8,53E-01
Q99NE5	17	21	75,1	116837	Rims1	0	1,26	6,05E-01
Q61753	28	13	212,92	236539	Phgdh	0	0,80	5,95E-01
Q9JLB0	32	15	193,6	56524	Mpp6	0	1,02	9,99E-01
A2ALS5	28	15	102,14	110351	Rap1gap	1	1,02	1,00E+00
Q8C8N2	27	15	101,25	320271	Scai	0	1,19	7,50E-01
Q63844	43	8	172,17	26417	Mapk3	0	1,23	6,66E-01
O88643	31	7	110,06		Pak1	10	0,90	8,63E-01
Q6R891	24	16	93	217124	Ppp1r9b	0	1,03	9,91E-01
Q80TQ2	20	18	169,08	74256	Cyld	0	0,98	9,83E-01
Q6IME9	11	3	606,85	105866	Krt72	0	1,24	6,33E-01
Q9Z0R4	16	20	36,21	16443	Itsn1	4	1,00	9,97E-01
Q9JLM8	23	14	106,41	13175	Dclk1	0	1,06	9,76E-01
O88712	34	14	280,91	13016	Ctbp1	0	1,23	6,66E-01
Q68FH0	23	18	120,63	227937	Pkp4	0	1,08	9,56E-01
P35279	47	4	352,8	19346	Rab6a	0	1,33	4,42E-01
P70336	17	21	70,07	19878	Rock2	0	1,06	9,76E-01
P62881	31	10	163,34	14697	Gnb5	0	1,18	7,94E-01
Q99LX0	53	10	190,93	57320	Park7	0	1,06	9,76E-01
Q5FWK3	34	14	146,32	228359	Arhgap1	0	1,00	1,00E+00
Q7TMF3	71	11	163,38	66414	Ndufa12	0	1,17	8,01E-01
Q9CRB9	31	11	234,14	66075	Chchd3	0	0,78	4,61E-01
Q61036	35	5	90,33	18481	Pak3	3	1,11	9,25E-01
Q8BJ42	22	16	80,32	244310	Dlgap2	1	0,96	9,76E-01
A2APX8	9	9	51,97	20265	Scn1a	0	1,04	9,78E-01
Q8JZS0	45	4	200,88	108030	Lin7a	6	1,06	9,76E-01
Q8K183	32	9	184,85	216134	Pdxk	0	1,18	8,02E-01
Q9EP69	33	19	137,91	83493	Sacm11	0	1,17	8,09E-01
Q791V5	39	10	250,35	56428	Mtch2	0	0,75	3,57E-01
Q99K51	30	12	104,63	102866	Pls3	5	1,01	1,00E+00
Q9CR68	25	10	196,99	66694	Uqcrfs1	0	0,91	9,19E-01
P84075	64	6	170,68	15444	Hpca	7	0,96	9,76E-01
P63330	46	3	178	19052	Ppp2ca	11	0,90	8,91E-01
Q7TME0	27	16	112,32	229791	Plppr4	0	1,20	7,89E-01
Q99PJ0	31	11	242,74		Ntm	0	0,97	9,76E-01
Q9DCJ5	48	8	170,74	68375	Ndufa8	0	0,98	9,81E-01
P54071	43	17	119,1	269951	Idh2	1	0,83	6,74E-01
Q9DB20	72	15	260,95	28080	Atp5po	0	0,75	3,46E-01
Q8VE33	26	9	167,29		Gdap111	0	0,98	9,85E-01
Q9JLV5	23	15	103,99	26554	Cul3	0	1,08	9,56E-01
Q61165	17	11	100,62	20544	Slc9a1	0	0,86	7,86E-01



Q9CZT8	37	4	493,25	69908	Rab3b	0	0,94	9,55E-01
Q9WUB3	23	10	164,99	19309	Pygm	0	0,90	9,02E-01
Q7TT50	13	18	78,47	217866	Cdc42bpb	4	1,09	9,59E-01
Q8JZN5	29	17	115,98	229211	Acad9	0	0,85	7,37E-01
Q8BP47	26	14	83,03	70223	NARS1	0	1,42	1,94E-01
Q9DCN2	32	10	158,5	109754	Cyb5r3	0	1,05	9,77E-01
O55022	49	10	151,04	53328	Pgrmc1	1	1,12	9,12E-01
O88544	33	11	129,7	26891	Cops4	0	0,93	9,33E-01
Q9CPV4	49	13	121,01	67201	Glod4	0	0,97	9,76E-01
Q9JJK7	38	12	111,63	50876	Tmod2	1	0,90	9,02E-01
Q80VP1	22	9	52	13854	Epn1	0	1,13	8,85E-01
O35874	17	7	107,98	55963	Slc1a4	0	0,90	8,53E-01
Q8R3Z5	35	10	104,52	12295	Cacnb1	5	1,06	9,76E-01
P83510	18	11	104,76	665113	Tnik	0	0,85	6,91E-01
Q0KL02	7	15	38,4	223435	Trio	5	1,13	9,02E-01
Q60829	69	7	106,26	19049	Ppp1r1b	0	0,90	8,53E-01
Q3UIJ4	18	19	96,65	13194	Ddb1	0	0,96	9,76E-01
P99029	46	10	240,97	54683	Prdx5	0	0,78	4,77E-01
P62715	43	2	168,46	19053	Ppp2cb	0	1,02	1,00E+00
P19246	15	14	169,65	380684	Nefh	0	1,28	5,92E-01
P33173	14	22	72,81		Kif1a	0	0,92	8,91E-01
Q9R0N7	31	12	134,14	54525	Syt7	0	1,30	4,61E-01
P80313	32	16	142,36	12468	Cct7	0	1,11	9,18E-01
P08730	18	3	1329,28	16663	Krt13	2	1,02	1,00E+00
P15532	55	5	268,43	18102	Nme1	6	1,06	9,72E-01
Q61481	28	10	106,58	18573	Pde1a	0	0,99	9,78E-01
K1H6_HUMAN	37	10	417,08	8689	KRT36	5	4,53	1,60E-16
Q9QY76	38	7	213,15		Vapb	0	1,24	6,44E-01
P35585	41	14	119,02	11767	Ap1m1	0	0,92	9,16E-01
P48758	54	11	171,4	12408	Cbr1	1	1,02	1,00E+00
Q3TDK6	53	14	148,04	66049	Rogdi	0	1,14	8,54E-01
Q6PER3	36	11	195,62	100732	Mapre3	2	1,15	8,37E-01
Q80X80	27	12	112,14	71764	C2cd2l	0	1,29	5,33E-01
Q9R1V6	13	11	146,5	11496	Adam22	0	0,94	9,64E-01
Q8BH66	25	13	182,77	73991	At1l	1	1,10	9,48E-01
P97350	19	12	131,49	18772	Pkp1	0	1,27	5,69E-01
O54828	23	16	116,04	19739	Rgs9	0	0,93	9,32E-01
Q9CXJ4	26	15	101,28	74610	Abcb8	0	0,89	8,60E-01
Q9JLN9	11	24	28,66	56717	Mtor	0	1,32	4,52E-01
P61294	45	4	333,53	270192	Rab6b	8	1,23	6,58E-01
P62631	24	5	334,72	13628	Eef1a2	0	0,94	9,56E-01
Q8BSS9	16	16	83,01	327814	Ppfia2	0	1,24	6,72E-01
O35609	30	8	124,82	24045	Scamp3	0	1,15	8,50E-01
Q61137	17	15	69,31	11899	Astn1	0	1,21	7,46E-01
Q9WVK8	38	17	69,8	13116	Cyp46a1	0	0,95	9,64E-01
Q8BNW9	29	13	142,21	74901	Kbtbd11	0	1,14	8,69E-01

Q8R366	21	9	200,78	140559	Igsf8	0	1,27	5,52E-01
Q8BIJ6	19	16	100,3	381314	Iars2	0	0,67	7,30E-02
P62137	30	5	158,06	19045	Ppp1ca	5	1,04	9,77E-01
Q9CQN1	20	11	152,83	68015	Trap1	0	1,29	5,24E-01
Q91YQ5	29	16	126,85	103963	Rpn1	0	0,89	8,57E-01
Q9DBC7	33	9	114,93	19084	Prkar1a	3	0,99	9,81E-01
Q8JZP2	33	11	130,95	27204	Syn3	0	0,95	9,50E-01
Q9JII6	50	14	154,19	58810	Akr1a1	1	0,97	9,76E-01
Q922D8	19	15	129,41	108156	Mthfd1	0	1,04	9,89E-01
P55012	11	10	97,45	20496	Slc12a2	0	1,19	7,74E-01
A2RT62	29	11	99,51	214931	Fbxl16	0	0,98	9,78E-01
Q8C729	29	14	149,75	213056	Fam126b	0	1,01	1,00E+00
P61205	41	6	207,28	11842	Arf3	3	1,22	6,92E-01
P84078	41	6	207,28	11840	Arf1	0	1,22	6,92E-01
Q8BHE3	23	6	114,6	16467	Atcay	0	0,93	9,27E-01
Q8K400	18	14	128,4	78808	Stxbp5	1	0,94	9,56E-01
Q8BTM8	8	15	28,45	192176	Flna	0	1,00	1,00E+00
Q9ESN6	21	12	74,21	80890	Trim2	0	1,06	9,76E-01
Q99JP7	22	13	103,74	207182	Ggt7	0	0,97	9,76E-01
P70207	10	8	63,41	18845	Plxna2	0	0,73	6,42E-01
Q9JLJ2	31	14	117,03	56752	Aldh9a1	0	0,88	7,90E-01
P32921	36	14	66,64	22375	Wars1	0	0,97	9,74E-01
Q9Z2W0	33	13	44,79	13437	Dnpep	0	1,08	9,64E-01
Q9WUM4	27	13	157,63	23790	Coro1c	0	1,21	7,41E-01
Q9QZX7	31	8	158,02	27364	Srr	0	1,01	1,00E+00
Q9DCS9	45	8	196,17	68342	Ndufb10	0	0,91	9,16E-01
P35803	23	8	216,49	14758	Gpm6b	0	0,84	7,38E-01
Q5DQR4	15	11	116,31	207227	Stxbp5l	0	0,94	9,48E-01
P24527	29	14	85,88	16993	Lta4h	0	1,06	9,76E-01
Q91WQ3	34	18	113,3	107271	Yars1	0	0,93	9,56E-01
Q2M3X8	22	14	108,82	218194	Phactr1	0	1,06	9,76E-01
Q00493	29	12	122,94	12876	Cpe	0	0,91	8,91E-01
Q8BG32	38	14	89,95	69077	Psmc11	0	1,00	9,93E-01
Q8R5C5	38	5	179,29	226977	Actr1b	6	1,08	9,56E-01
P18572	19	7	246,78	12215	Bsg	0	0,75	3,18E-01
P63001	41	4	206,04	19353	Rac1	3	1,33	3,83E-01
Q8R5M8	21	9	102,29	54725	Cadm1	0	1,06	9,74E-01
P23506	46	10	62,36		Pcmt1	0	1,00	9,96E-01
Q8BH95	35	9	116,15	93747	Echs1	0	0,83	6,58E-01
Q9WV80	29	13	87,22	56440	Snx1	0	1,05	9,76E-01
Q99JR1	45	10	219,56	14057	Sfxn1	0	1,12	9,13E-01
Q9QYB8	21	12	109,3	11519	Add2	0	1,05	9,76E-01
Q9JLZ3	32	11	117,92	11992	Auh	0	0,94	9,56E-01
Q9D172	39	10	164,42	28295	Gatd3a	0	0,82	6,42E-01
Q5H8C4	7	22	19,72	271564	Vps13a	0	1,17	8,12E-01
Q64516	27	14	104,31	14933	Gk	1	0,89	8,43E-01
Q8BXR1	13	8	106,94	241919	Slc7a14	0	0,88	8,01E-01

P60487	35	8	105,31	57028	Pdxdp	0	1,23	6,74E-01
Q6WQJ1	16	17	79,04	269060	Dagla	0	0,91	8,88E-01
Q9DC69	39	13	104,02	66108	Ndufa9	0	0,95	9,66E-01
Q6PHS9	13	15	127,31	56808	Cacna2d2	0	1,10	9,26E-01
Q91WS0	54	6	231,22	52637	Cisd1	0	0,71	1,81E-01
P63094	28	7	400,06	14683	Gnas	0	0,92	9,09E-01
Q6R0H7	10	7	400,06	14683	Gnas	0	0,92	9,09E-01
P61021	48	5	262,28	19344	Rab5b	4	1,21	7,09E-01
Q8BYM5	16	10	125,48	245537	Nlgn3	2	0,91	8,95E-01
Q8R0S2	20	14	123,18	232227	Iqsec1	5	1,19	7,69E-01
Q6P1F6	29	9	202,07	71978	Ppp2r2a	4	1,01	1,00E+00
P42208	41	10	73,54	18000	Septin2	0	1,19	7,74E-01
P00405	28	5	256,01	17709	Mtco2	0	0,84	7,12E-01
Q9R0N5	16	3	259,45		Syt5	0	0,96	9,76E-01
CAS1_BO VIN	34	7	73,53	282208	CSN1S1	0	0,55	4,39E-02
P62141	29	4	128,05	19046	Ppp1cb	1	1,12	9,19E-01
Q9D394	35	14	91,86	52822	Rufy3	0	1,06	9,74E-01
Q9D0F9	27	14	99,68	72157	Pgm1	0	1,36	3,20E-01
Q64514	18	19	46,58	22019	Tpp2	0	0,92	9,02E-01
Q925N0	33	8	135,41	94282	Sfxn5	0	0,93	9,32E-01
O55234	38	11	172,68	19173	Psmb5	0	1,21	7,13E-01
O88910	28	12	69,4		Mpp3	0	1,05	9,76E-01
Q64105	48	10	90,56		Spr	0	1,08	9,74E-01
Q9R0Q6	34	12	148,25	56443	Arpc1a	0	1,03	9,87E-01
K1M2_SH EEP	33	3	135,46			0	1,31	8,34E-01
O88998	23	9	60,91	56177	Olfm1	0	0,97	9,76E-01
Q8VHH5	14	9	128,58		Agap3	2	1,01	9,99E-01
Q8R0A7	31	12	120,7	234797	Kiaa0513	0	0,96	9,70E-01
Q9CQX2	45	6	98,92	66427	Cyb5b	0	0,61	1,29E-02
Q9CWJ9	31	15	78,89	108147	Atic	0	1,35	3,18E-01
Q6PFD5	20	15	103,84	242667	Dlgap3	0	1,14	8,53E-01
P48678	23	17	38,91	16905	Lmna	0	1,00	9,94E-01
Q56A07	37	8	130,33	72821	Scn2b	0	0,83	6,75E-01
Q812A2	17	17	85,3	259302	Srgap3	0	1,11	9,19E-01
Q01768	47	2	216,79	18103	Nme2	0	1,13	8,95E-01
Q3UYC0	34	13	102,54	319468	Ppm1h	0	0,99	9,87E-01
Q9Z140	28	13	106,2	12891	Cpne6	0	1,14	8,93E-01
Q6PAJ1	16	15	74,29	110279	Bcr	2	1,15	8,59E-01
O88741	21	9	179,85	14545	Gdap1	0	0,96	9,74E-01
P61164	35	4	167,06	54130	Actr1a	0	1,11	9,24E-01
Q5SSL4	18	11	87,63	109934	Abr	0	0,92	9,14E-01
P63321	34	5	174,75	56044	Rala	6	1,21	7,39E-01
P63087	25	2	125,96	19047	Ppp1cc	0	1,00	9,99E-01
Q8R016	24	11	92,24	104184	Blmh	0	0,67	4,66E-02
P70414	12	11	99,99	20541	Slc8a1	0	0,98	9,81E-01
Q61166	44	9	101,79	13589	Mapre1	0	1,21	6,96E-01

O88485	25	10	107,38	13426	Dync1i1	2	1,20	7,33E-01
P11679	12	2	1144,08	16691	Krt8	1	0,69	1,41E-01
Q9D1T0	20	11	92,97	235402	Lingo1	0	1,05	9,78E-01
CATD_HUMAN	26	9	150,15	1509	CTSD; HEL-S-130P	2	1,11	9,28E-01
O35857	31	13	52,99	21856	Timm44	0	1,08	9,74E-01
Q8R5H6	20	9	134,25	83767	Wasf1	0	1,39	2,14E-01
Q5SWU9	10	20	26,22	107476	Acaca	0	1,30	5,06E-01
Q7TSF1	6	8	153,4	225256	Dsg1b	0	1,04	9,78E-01
O88343	13	11	87,14	54403	Slc4a4	1	0,72	1,34E-01
Q62419	33	7	174,55	20405	Sh3gl1	0	1,22	7,45E-01
Q8CAY6	37	12	96,79	110460	Acat2	0	1,06	9,76E-01
Q62277	16	6	499,45	20977	Syp	0	1,01	1,00E+00
Q07076	33	14	153,22	11750	Anxa7	0	1,07	9,70E-01
Q9D2G2	25	11	246,15	78920	Dlst	0	0,89	8,58E-01
Q60737	25	7	124,46	12995	Csnk2a1	1	1,01	1,00E+00
Q80TS3	9	12	101,51	319387	Adgrl3	0	0,89	8,49E-01
Q9CPQ3	67	6	93,53	223696	Tomm22	0	0,84	7,06E-01
P41216	25	17	119,57	14081	Acs11	0	0,76	2,99E-01
Q9DCW4	49	12	199,88	110826	Etfb	0	0,95	9,69E-01
Q8BLK3	33	11	254,07		Lsamp	0	1,10	9,32E-01
Q6NS52	23	14	112,54	217480	Dgkb	0	0,97	9,76E-01
Q8BSL7	30	5	171,03	11841	Arf2	0	1,22	6,94E-01
Q03059	21	12	79,66		Chat	0	0,97	9,74E-01
Q9CWS0	39	8	139,01	69219	Ddah1	1	0,90	9,00E-01
Q8C163	23	8	80,72	208194	Exog	0	0,57	3,46E-03
P29341	21	13	132,18	18458	Pabpc1	0	1,13	8,97E-01
Q61171	63	10	257,15	21672	Prdx2	0	1,32	4,18E-01
A2AQ25	12	19	37,94	208618	Skt	0	1,08	9,64E-01
Q9Z2W8	13	5	108,87	14802	Gria4	0	1,25	8,50E-01
Q8BMG7	14	18	58,84	98732	Rab3gap2	0	1,01	1,00E+00
Q8R570	35	11	125,84	67826	Snap47	0	0,94	9,42E-01
Q9Z2U0	39	10	122,6	26444	Psma7	0	1,13	8,89E-01
Q9CPY7	35	14	93,67	66988	Lap3	0	0,71	1,33E-01
Q80Z38	15	15	84,82	210274	Shank2	0	1,09	9,56E-01
P51660	22	13	109,08	15488	Hsd17b4	0	1,00	1,00E+00
P49615	35	8	131,95	12568	Cdk5	0	1,24	6,74E-01
P50247	25	9	172,49	11615; 269378	Ahcy	0	1,04	9,79E-01
Q6PE13	19	13	78,85	210673	Prrt3	0	1,02	1,00E+00
Q8BHN3	15	13	90,27	14376	Ganab	0	0,69	1,21E-01
Q91ZJ5	29	15	112,87	216558	Ugp2	0	1,05	9,76E-01
P03995	36	14	126,14	14580	Gfap	0	0,97	9,74E-01
Q91ZP9	27	11	72,02	117148	Necab2	0	1,09	9,59E-01
B9EJA2	13	18	63,76	30785	Cttnbp2	0	1,12	9,11E-01
Q9D1G1	55	4	369,43	76308	Rab1b	0	1,11	9,17E-01
P61202	30	12	85,18	12848	Cops2	0	0,88	8,04E-01

Q9DC51	30	5	419,39	14679	Gnai3	0	0,81	5,72E-01
Q7TQI3	40	9	164,45	107260	Otub1	0	0,86	7,61E-01
E9Q7X7	10	10	91,04		Nrxn2	0	1,05	9,76E-01
Q9QZF2	23	9	98,16	14733	Gpc1	0	0,87	7,89E-01
P26043	19	4	88,29	19684	Rdx	0	1,02	1,00E+00
Q61495	5	7	150,15	13510	Dsg1a	0	0,99	9,87E-01
Q60676	30	13	54,84	19060	Ppp5c	0	1,26	6,23E-01
Q5SRX1	26	9	65,6	216810	Tom1l2	0	1,15	8,85E-01
Q92511	27	15	125,17	108888	Atad3	0	0,89	8,70E-01
Q99K85	30	10	152,01	107272	Psat1	0	0,81	5,42E-01
P48036	39	13	94,25	11747	Anxa5	0	0,95	9,74E-01
O08529	20	12	80,53	12334	Capn2	0	1,09	9,56E-01
P61226	40	5	139,86	74012	Rap2b	3	0,90	9,02E-01
P62812	25	9	135,42	14394	Gabra1	4	1,12	9,19E-01
Q8BWT1	39	12	104,81	52538	Acaa2	0	0,60	6,52E-03
Q8BLF1	21	10	118,85	320024	Nceh1	0	0,85	7,38E-01
Q9R0X4	28	13	105,49	56360	Acot9	0	1,00	9,85E-01
Q9WTP7	46	11	62,41	56248	Ak3	0	0,79	5,24E-01
P14685	32	14	31,61	22123	Psmd3	0	1,22	6,98E-01
P49025	9	19	41,86	12704	Cit	0	1,25	6,42E-01
Q8CIN4	27	4	59,28	224105	Pak2	0	1,01	1,00E+00
Q9QYB5	18	11	94,64	27360	Add3	0	1,05	9,76E-01
O55126	27	10	136,83		Nipsnap2	0	0,90	8,93E-01
Q8BL65	26	11	61,27	231148	Ablim2	0	1,40	2,41E-01
Q8CGF6	13	11	105,01	99512	Wdr47	0	1,14	8,85E-01
P27601	38	12	350,13	14674	Gna13	0	1,03	9,94E-01
Q6ZWR6	3	23	12,47	64009	Syne1	0	0,98	9,76E-01
Q3ULJ0	30	11	102,43	333433	Gpd1l	0	0,80	5,96E-01
P37040	25	16	130,06	18984	Por	0	0,99	9,91E-01
Q8BG51	22	10	87,31	59040	Rhot1	2	1,00	9,91E-01
P46638	52	12	253,47	19326	Rab11b	0	1,08	9,59E-01
Q9DB73	39	10	83,97	72017	Cyb5r1	0	1,26	6,21E-01
Q8BR92	33	11	103,52	677884	Palm2	0	1,13	9,15E-01
Q6IRU5	38	11	240,08	74325	Cltb	0	1,07	9,71E-01
Q99LD4	27	10	90,01		Gps1	0	1,46	1,12E-01
Q68EF6	21	10	63,9	380785	Begain	0	0,96	9,71E-01
P30999	17	14	56,44	12388	Ctnnd1	0	0,97	9,74E-01
Q9JMA1	23	11	80,96	59025	Usp14	0	1,19	7,50E-01
P61028	42	3	346,64	235442	Rab8b	2	1,30	4,98E-01
O08756	28	5	73,49		Hsd17b10	0	0,69	1,30E-01
Q9QZ06	53	11	96,23	54473	Tollip	0	0,91	8,85E-01
Q78ZA7	23	6	78,21	17955	Nap1l4	1	0,89	8,56E-01
P60335	29	5	119,42	23983	Pcbp1	4	1,05	9,76E-01
Q61290	8	13	44,16		Cacna1e	1	1,16	8,59E-01
O35382	16	13	55,33	20336	Exoc4	0	1,08	9,65E-01
P05480	28	10	85,36		Src	1	1,01	1,00E+00
O54829	32	9	142,47	24012	Rgs7	4	1,20	7,39E-01

Q61330	13	12	105,88	21367	Cntn2	0	1,12	9,23E-01
O35239	25	14	76,2	56294	Ptpn9	0	1,02	1,00E+00
Q08331	39	10	117,88	12308	Calb2	1	1,15	8,53E-01
Q61233	23	9	35,85	18826	Lcp1	0	0,40	6,88E-05
Q99MR8	21	11	52,68	72039	Mccc1	0	0,80	5,37E-01
Q61102	20	13	75,68	11306	Abcb7	0	0,95	9,64E-01
P51174	21	8	100,77	11363	Acadl	0	0,89	8,43E-01
P28656	15	5	78,07	53605	Nap111	0	0,94	9,56E-01
O55023	31	10	156,87		Impa1	0	1,06	9,76E-01
P03921	9	4	101,01	17721	Mtnd5	0	0,92	9,19E-01
O88685	27	9	71,37	19182	Psmc3	0	1,08	9,64E-01
Q9WVK4	19	5	127,66	13660	Ehd1	0	0,85	7,77E-01
P35278	39	4	243,87	19345	Rab5c	0	1,23	6,58E-01
Q9CQJ8	50	8	73,42	66218	Ndufb9	0	0,89	8,40E-01
Q9DBG6	16	7	69,79	20014	Rpn2	0	0,91	9,01E-01
P62492	49	11	243,23	53869	Rab11a	0	1,14	8,70E-01
P46425	33	4	80,44	14869	Gstp2	0	0,72	1,44E-01
P33175	12	2	72,78	16572	Kif5a	0	1,03	1,00E+00
Q9CZ42	31	8	91,51	69225	Naxd	0	1,04	9,85E-01
Q99JI6	44	3	94,09	215449	Rap1b	7	0,99	9,87E-01
P08228	47	6	194,3	20655	Sod1	1	1,08	9,56E-01
Q9CRD0	28	7	81,05	68095	Ociad1	0	0,71	1,64E-01
Q3UUG6	22	13	73,07	224617	Tbc1d24	0	1,09	9,62E-01
P58404	14	7	73,99	97387	Strn4	0	1,01	1,00E+00
Q9CQW1	57	10	98,95	56418	Ykt6	0	1,32	4,19E-01
Q9D880	31	8	65,76	66525	Timm50	0	0,98	9,85E-01
P00493	50	9	89,11	15452	Hprt1	0	1,14	8,70E-01
P50544	21	11	70,01	11370	Acadvl	0	0,78	3,97E-01
Q91ZR1	53	7	228,38	19342	Rab4b	2	1,22	7,24E-01
P16460	26	14	169,25	11898	Ass1	0	1,25	6,28E-01
Q8R001	29	7	92,46	212307	Mapre2	0	0,97	9,76E-01
Q9QUR6	17	11	52,78	19072	Prep	0	1,03	9,94E-01
O88952	52	5	136,83	22343	Lin7c	0	1,43	1,88E-01
P39447	12	18	19,9	21872	Tjp1	0	0,98	9,76E-01
P45376	33	11	108,79	11677	Akr1b1	1	1,15	8,62E-01
O54774	15	15	23,59	11776	Ap3d1	0	1,15	8,82E-01
Q8BNN1	23	8	85,85	78779	Spata2l	0	0,86	7,33E-01
Q8C754	17	11	75,32	224705	Vps52	0	1,10	9,34E-01
Q62417	17	17	45,75	20411	Sorbs1	0	0,89	8,57E-01
Q9JM76	37	6	67,4	56378	Arpc3	0	1,05	9,76E-01
Q00612	30	15	72,75	14381	G6pdx	0	0,93	9,24E-01
P54285	30	7	83,48	12297	Cacnb3	0	1,14	9,16E-01
A2A8L5	8	6	118,19	19268	Ptprf	0	0,80	5,63E-01
P00920	44	9	73,99	12349	Ca2	0	1,09	9,64E-01
Q91YR1	27	8	69,7	19230	Twf1	1	0,98	9,76E-01
P63024	32	2	204,07	22319	Vamp3	0	0,95	9,73E-01
Q69ZK9	18	6	116,65	216856	Nlgn2	1	1,09	9,64E-01

O35551	18	13	33,68	54189	Rabep1	0	0,90	8,82E-01
P48318	15	8	91,96	14415	Gad1	0	0,97	9,74E-01
Q8VD04	20	14	45,37	54645	Gripap1	0	1,05	9,76E-01
O70250	23	2	174,03	56012	Pgam2	0	1,03	1,00E+00
P97390	28	15	67,47	22365	Vps45	0	1,11	9,34E-01
Q9D7G0	30	4	106,77	19139	Prps1	5	1,23	7,00E-01
Q922R8	28	9	74,76	71853	Pdia6	0	0,78	4,72E-01
P62484	25	6	84,62	329165	Abi2	0	0,87	8,01E-01
Q9QZM0	16	5	75,24	54609	Ubqln2	2	0,93	9,22E-01
Q61081	23	8	68,34	12539	Cdc37	0	0,96	9,67E-01
Q9Z2H2	26	8	114,97	50779	Rgs6	0	1,25	6,17E-01
O54865	21	12	66,66	54195	Gucy1b1	0	1,00	9,85E-01
Q9CR95	37	8	123,65	67602	Necap1	0	0,92	9,25E-01
Q6GQS1	28	10	79,91	66972	Slc25a23	3	0,83	6,66E-01
O35678	32	8	89,1	23945	Mgll	0	1,93	4,54E-04
Q8CHG7	14	16	21,73		Rapgef2	0	1,10	9,37E-01
P62748	45	3	133,91	53602	Hpcal1	0	1,10	9,48E-01
Q9ERS2	51	8	128,97	67184	Ndufa13	0	0,83	6,98E-01
Q80U40	15	11	52,1	231760	Rimbp2	0	1,01	1,00E+00
Q9R0Y5	45	8	110,86	11636	Ak1	0	1,03	9,79E-01
Q91YJ2	21	8	77,42	69150	Snx4	0	1,16	8,49E-01
Q3UJU9	24	8	64,8	67809	Rmdn3	0	0,72	1,88E-01
Q8CBY8	27	9	75,4	67665	Dctn4	0	1,39	2,85E-01
Q9JIA1	22	11	89,13	56839	Lgi1	0	1,47	1,55E-01
Q9DCD0	22	10	75,6	110208	Pgd	0	1,05	9,78E-01
P47802	31	10	84,45		Mtx1	0	0,65	5,16E-02
O70435	35	9	92,03	19167	Psma3	0	1,02	9,94E-01
Q8C0T5	13	17	21,79	217692	Sipal1l	0	1,03	9,87E-01
Q9CX34	31	9	100,96	67955	Sugt1	0	0,99	9,81E-01
Q3TXS7	15	11	79,72	70247	Psmd1	0	1,03	9,94E-01
Q9EQP2	18	6	75,04	98878	Ehd4	0	1,34	4,76E-01
P62897	50	10	120,63	13063	Cycs	0	0,93	9,56E-01
Q8BHC1	46	7	184,55	67790	Rab39b	0	1,08	9,71E-01
Q8C1A5	19	11	62,79	50492	Thop1	0	0,95	9,56E-01
P26039	7	9	41,84	21894	Tln1	0	0,74	6,42E-01
P55258	39	2	330,66	17274	Rab8a	0	3,22	1,26E-03
Q99L13	34	9	93,14	58875	Hibadh	0	1,06	9,76E-01
Q6PCP5	35	8	69,31	75734	Mff	0	0,97	9,74E-01
P21107	31	12	104,27	59069	Tpm3	0	1,21	7,10E-01
Q62443	19	9	63,02	18164	Nptx1	0	0,93	9,19E-01
Q9R1P4	41	10	127,66	26440	Psma1	0	1,15	8,53E-01
Q91X97	33	3	121,38	52589	Ncald	0	0,89	8,47E-01
Q9JKY5	14	12	49,35	29816	Hip1r	1	1,17	8,25E-01
Q8R071	26	10	72,12	228550	Itpka	0	1,09	9,59E-01
Q9WUR9	46	10	61,77	11639	Ak4	0	0,99	9,91E-01
Q8K0S0	28	8	115,07	105653	Phyhip	0	0,95	9,59E-01
Q8VEK0	30	9	93,32	69981	Tmem30a	0	1,05	9,76E-01

P12658	39	8	65,3	12307	Calb1	0	1,31	4,64E-01
Q8K3H0	18	9	49,62	72993	Appl1	0	1,06	9,76E-01
Q3UV70	25	11	21,62	381511	Pdp1	0	0,80	6,17E-01
P0DI97	23	8	67,17	18189	Nrxn1	0	1,13	8,91E-01
Q99JI4	27	11	88,28	66413	Psmc6	0	1,36	3,38E-01
P70297	21	9	57,18	20844	Stam	0	1,07	9,74E-01
Q9WUM5	35	10	105,58	56451	Suclg1	0	1,06	9,74E-01
O88487	17	8	53,91	13427	Dync1i2	0	0,86	7,78E-01
Q8BYI9	11	13	52,2	21960	Tnr	0	1,16	8,57E-01
Q8K386	38	5	296,07		Rab15	0	0,97	9,74E-01
P10630	28	2	112,82	13682	Eif4a2	0	1,41	6,86E-01
Q9D593	17	6	97,79	74915	Atp6v1e2	0	1,26	5,86E-01
Q6PHN9	41	6	319,63	77407	Rab35	1	1,06	9,74E-01
Q9Z1Z2	38	10	51,64	20901	Strap	0	0,92	9,09E-01
Q9JHR7	13	12	34,19		Ide	0	1,18	7,97E-01
P0C192	15	7	67,72	272381	Lrrc4b	1	1,04	9,76E-01
Q9CR16	33	11	61,05	67738	Ppid	0	1,13	8,91E-01
Q9QUI0	33	9	98,97	11848	Rhoa	0	1,03	9,85E-01
P62334	27	10	88,8	67089	Psmc6	0	0,82	6,13E-01
P35235	22	13	60,92	19247	Ptpn11	0	1,00	9,94E-01
O35954	13	14	55,53	18739	Pitpm1	0	1,13	9,11E-01
Q9Z1N9	6	12	72,34	22249	Unc13b	0	1,26	5,82E-01
Q99L47	20	8	76,64	70356	St13	0	1,11	9,19E-01
Q9WTR1	17	10	55,63	22368	Trpv2	0	1,13	9,21E-01
O08585	26	11	166,91		Clta	0	1,01	1,00E+00
Q01405	17	8	63,95	20334	Sec23a	1	1,25	6,75E-01
P26041	23	7	70,5	17698	Msn	1	0,83	6,42E-01
Q8BGT8	38	10	76,74	70911	Phyhipl	4	0,98	9,85E-01
P07744	12	2	422,95	16682	Krt4	0	0,69	5,69E-01
P52503	45	7	48,17	407785	Ndufs6	0	0,81	5,69E-01
Q9WV60	36	8	82,94	56637	Gsk3b	3	1,01	1,00E+00
Q8CJ19	9	17	10,98	194401	Mical3	0	1,07	9,74E-01
Q91ZZ3	50	3	211,73	104069	Sncb	0	0,80	5,25E-01
Q8CBW3	25	6	79,61	11308	Abi1	4	1,11	9,25E-01
P48774	42	9	120,88	14866	Gstm5	0	0,86	7,61E-01
Q9D6J5	46	6	74	67264	Ndufb8	0	0,72	2,01E-01
Q8C985	18	8	98,27	18191	Nrxn3	0	1,33	4,06E-01
O08547	39	7	103,62	20333	Sec22b	0	0,94	9,56E-01
Q3UHD6	21	10	90,45	76742	Snx27	0	1,04	9,85E-01
Q6P1B1	18	10	72,19	170750	Xpnpep1	0	0,84	7,09E-01
P29387	21	2	314,38	14696	Gnb4	0	1,02	1,00E+00
O35685	34	10	66,96	18221	Nudc	0	0,79	5,23E-01
P08003	27	13	20,39	12304	Pdia4	0	0,64	3,07E-02
O88951	42	4	98,84	22342	Lin7b	0	1,01	1,00E+00
Q9JKR6	12	10	56,82	12282	Hyou1	0	0,91	8,85E-01
P63141	19	3	99,21	16490	Kcna2	1	0,92	9,56E-01
Q8QZS1	27	9	73,65	227095	Hibch	0	0,87	7,91E-01



A2CG49	5	11	34,61	545156	Kalrn	0	0,77	4,72E-01
P97441	18	7	100,1	22784	Slc30a3	0	1,04	9,78E-01
O55125	28	8	120,36	18082	Nipsnap1	0	0,81	6,28E-01
Q69ZS6	11	8	119,37	75209	Sv2c	0	2,24	1,17E-05
P0DP27	46	7	122,34	12313; 12314; 12315	Calm2	0	0,82	6,66E-01
P13707	27	11	70,2	14555	Gpd1	0	0,96	9,71E-01
P56371	47	6	199,13	19341	Rab4a	0	1,48	1,82E-01
P09671	33	9	162,84	20656	Sod2	0	0,82	6,53E-01
Q8K221	29	9	70,39	76932	Arfip2	0	1,02	1,00E+00
P80560	10	8	66,75	19276	Ptprn2	1	1,08	9,64E-01
P60843	27	2	81,24	13681	Eif4a1	6	0,94	9,45E-01
Q9D8N0	19	8	87,75	67160	Eef1g	0	1,04	9,83E-01
P62984	46	7	281,85	22186	Uba52	0	0,92	9,25E-01
RS27A_H UMAN	38	7	281,85	100032 038; 100052 644; 100286 787; 100394 663; 100401 239; 100411 672; 100476 697; 100514 637; 100985 757; 101020 976; 101029 100; 101059 860; 101092 929; 101136 689; 101316 708; 101361 983; 101385 092; 101571 052; 101674 222; 101710 786; 101822 924;	HEL112; LOC1004 11672; LOC1013 61983; LOC1027 46862; LOC1028 16131; LOC1111 48109; LOC1165 66029; rps27a; Rps27a; RPS27A; rps27a.S	0	0,92	9,25E-01

				101864 869; 101962 652; 102142 514; 102187 139; 102420 450; 102527 818; 102746 286; 102746 862; 102816 131; 102926 163; 102976 798; 103010 032; 103088 763; 103121 632; 103220 242; 103671 271; 104856 443; 104989 863; 105294 656; 105465 049; 105521 178; 105522 856; 105536 598; 105551 330; 105576 398; 105734 369; 105814 769; 105986 879; 106976 779; 106992 282;			
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				108313 818; 109252 147; 109566 084; 109681 758; 286839; 444494; 454140; 474599; 548926; 6233; 718909					
P62983	38	7	281,85	78294	Rps27a	0	0,92	9,25E-01	
P0CG49	77	7	281,85	22187	Ubb	0	0,92	9,25E-01	
P0CG50	73	7	281,85	22190	Ubc	0	0,92	9,25E-01	
Q99JB2	28	7	56,53	66592	Stoml2	0	0,90	8,85E-01	
Q8C0E2	30	8	73,39	69091	Vps26b	1	1,21	7,50E-01	
Q3UHD9	14	12	46,72	216439	Agap2	0	1,04	9,78E-01	
Q8VCT3	24	12	53,96	215615	Rnpep	0	0,86	7,50E-01	
Q9D3A9	11	4	98,68	57776	Ttyh1	0	0,92	9,22E-01	
Q6PB44	10	13	26,3	104831	Ptpn23	0	0,90	8,85E-01	
O35658	15	5	67,85		C1qbp	0	0,52	3,45E-04	
Q7TQD2	33	7	159,12	72948	Tppp	0	0,91	9,13E-01	
Q9ES28	19	13	45,38	54126	Arhgef7	0	1,19	7,87E-01	
Q99KK7	18	10	39,82	75221	Dpp3	0	1,21	7,28E-01	
Q9R0P3	24	6	52,6	13885	Esd	0	0,96	9,74E-01	
Q9JHI5	21	10	79,35	56357	Ivd	0	1,05	9,76E-01	
Q9ERI6	28	8	67,27	105014	Rdh14	0	0,94	9,56E-01	
Q61503	16	8	82,28	23959	Nt5e	0	0,90	8,54E-01	
A2ARS0	30	9	84,95	383787	Ankrd63	0	1,17	7,77E-01	
A2AGT5	8	14	30,44	75786	Ckap5	0	1,15	9,09E-01	
Q9CQD1	34	4	206,84	271457	Rab5a	0	1,16	8,33E-01	
Q9D855	49	6	71,53		Uqcrb	0	0,93	9,28E-01	
Q9ERK4	13	13	52,21	110750	Cse1l	0	1,08	9,61E-01	
Q7TMY8	4	14	11,95	59026	Huwe1	0	1,39	4,83E-01	
GSTP1_H UMAN	40	5	35,07			0	1,41	7,44E-01	
Q8R127	21	10	91,67	109232	Sccpdh	0	1,00	9,98E-01	
Q8R464	27	7	73,96	260299	Cadm4	0	1,01	9,96E-01	
Q9CQC7	54	7	126,68	100042 503; 68194	Ndufb4	0	1,15	8,43E-01	
Q9D7X3	23	3	88,39	72349	Dusp3	0	0,79	4,49E-01	
Q9WV18	13	12	49,73	54393	Gabbr1	0	1,03	9,99E-01	
Q9Z1J3	23	11	61,51	18041	Nfs1	0	1,19	7,46E-01	
Q80U56	19	11	65,39	78937	Avl9	0	1,09	9,56E-01	
Q8VEH3	38	4	131,79	68724	Arl8a	0	1,25	6,47E-01	
Q9Z0S1	35	10	107,19	23827	Bpnt1	0	1,10	9,24E-01	

O08528	4	3	257,54	15277	Hk2	0	0,95	9,74E-01
Q9QUM9	31	7	101,96	26443	Psma6	0	1,09	9,50E-01
P39688	26	7	118,86	14360	Fyn	7	0,94	9,64E-01
Q9WTS4	6	13	23,16	23963	Tenm1	0	1,04	9,85E-01
Q91VI7	29	10	73,88	107702	Rnh1	0	1,15	8,57E-01
Q8BGX2	26	6	63,9	69773	Timm29	0	0,79	4,82E-01
P62962	72	9	60,63	18643	Pfn1	0	0,87	7,77E-01
P60202	26	7	196,48	18823	Plp1	0	0,86	7,90E-01
Q8BKC5	13	12	45,46	70572	Ipo5	0	0,96	9,72E-01
Q641P0	28	8	68,86	242894	Actr3b	0	0,93	9,32E-01
Q99LI8	16	10	68,58	15239	Hgs	0	1,14	8,91E-01
Q9DBS2	32	7	85,37	67808	Tprg11	0	1,04	9,81E-01
Q63912	14	7	177,29	18377	Omg	0	0,82	6,61E-01
Q9ERG2	16	9	40,99	94186	Strn3	0	0,99	9,94E-01
Q99MI1	11	5	104,27	111173	Erc1	0	1,04	9,79E-01
P62835	44	2	91,35	109905	Rap1a	0	0,76	7,46E-01
P35762	21	3	55,28	12520	Cd81	0	1,07	9,74E-01
Q3UGY8	7	12	27,08	215821	Arfgef3	0	1,03	9,94E-01
Q9ESN9	9	11	55,06	30957	Mapk8ip3	0	1,19	7,89E-01
Q60631	41	10	87,78	14784	Grb2	0	0,98	9,76E-01
RASH_HUMAN	39	2	119,8	100406 017; 100773 737; 101002 992; 101047 663; 101838 968; 101959 985; 102118 744; 102905 357; 103246 363; 103250 130; 104873 574; 105494 134; 105503 192; 105549 333; 105577 198; 105998 617; 108288 791;	c-Ha-ras; Hras; HRAS	5	1,12	9,08E-01

				108543 525; 15461; 293621; 3265; 466302; 698830				
Q8BH04	20	10	52,72	74551	Pck2	0	1,17	8,25E-01
P39087	13	8	64,12		Grik2	0	0,96	9,74E-01
Q80VP0	13	11	51,74	70381	Tecpr1	0	1,00	9,85E-01
Q9CQH3	33	8	86,09	66046	Ndufb5	0	0,83	6,25E-01
Q04690	7	18	12,18	18015	Nf1	0	1,16	8,43E-01
Q920N7	23	9	64,07	171180	Syt12	0	1,14	8,85E-01
P58389	31	10	114,95	110854	Ptpa	0	1,12	9,02E-01
Q93092	34	11	106,91	21351	Taldo1	0	0,86	7,97E-01
Q6P8X1	27	12	57,98	72183	Snx6	0	1,02	9,94E-01
Q62442	55	3	68,34	22317	Vamp1	0	1,06	9,76E-01
Q6PGF7	14	11	41,81	102058	Exoc8	0	1,19	7,91E-01
P63080	19	5	71,12	14402	Gabrb3	3	1,02	1,00E+00
Q5U458	21	11	85,18	230935	Dnaje11	0	0,82	6,06E-01
P49443	24	6	68,71	19042	Ppm1a	3	1,14	8,81E-01
Q8CI71	12	9	67,18	73288	Vps50	0	0,94	9,41E-01
Q8R2R9	31	8	47,82	64933	Ap3m2	2	1,28	5,69E-01
Q2NL51	23	5	81,49	606496	Gsk3a	0	0,83	6,94E-01
P20108	32	8	139,99	11757	Prdx3	0	1,23	6,72E-01
P62482	22	9	73,83	16498	Kcnab2	2	1,34	3,31E-01
Q8C3Q5	19	8	32,41	232813	Shisa7	0	0,93	9,34E-01
O70439	31	7	128,24		Stx7	0	0,88	8,07E-01
Q99J85	18	8	96,67		Nptxr	0	1,08	9,56E-01
Q6VNB8	5	16	17,88	72145	Wdfy3	0	1,39	2,43E-01
Q9JLF6	13	11	113,33	21816	Tgm1	0	1,53	7,32E-02
Q7M6Y3	17	7	127,32	233489	Picalm	0	0,98	9,76E-01
Q8C996	24	6	44,85	72160	Tmem163	0	0,95	9,64E-01
Q9DC07	35	9	94,32	74103	Nebi	0	1,06	9,76E-01
Q80T41	12	9	87,88	242425	Gabbr2	0	1,06	9,76E-01
Q91V09	20	9	57,65	73447	Wdr13	0	1,10	9,34E-01
Q9D8W5	20	9	68,72	66997	Psmc12	0	1,28	5,85E-01
Q9WTS5	5	12	18,11		Tenm2	0	1,13	9,42E-01
Q9EPL8	10	9	38,88	233726	Ipo7	0	0,85	7,09E-01
Q9D5V5	13	11	55,36	75717	Cul5	0	0,89	8,25E-01
P16388	23	5	85,3	16485	Kcna1	5	0,99	9,87E-01
O35465	18	6	47,53	14232	Fkbp8	0	0,74	3,59E-01
O70172	22	5	67,77	18718	Pip4k2a	3	1,01	1,00E+00
Q68FM6	12	8	55,6	207393	Elfn2	0	1,04	9,91E-01
Q9DC53	15	8	101,66	66871	Cpne8	0	0,91	9,03E-01
P35282	38	7	111,87	216344	Rab21	0	1,65	2,89E-02
Q505F5	19	8	43,76	72946	Lrrc47	0	1,21	7,33E-01
P54775	28	11	61,84	23996	Psmc4	0	1,08	9,64E-01

Q80ZF8	10	10	32,17	210933	Adgrb3	1	0,96	9,71E-01
P45591	55	6	94,51	12632	Cfl2	0	0,99	9,85E-01
O54988	12	13	12,49	20874	Slk	0	1,08	9,69E-01
O35621	39	9	72,94	29858	Pmm1	0	1,41	2,56E-01
Q61768	11	3	70,23	16573	Kif5b	0	2,09	1,01E-01
Q8C437	20	9	46,82	58869	Pex5l	0	1,07	9,74E-01
Q5DTY9	22	9	82,11	383348	Kctd16	0	1,15	8,25E-01
Q64518	8	7	115,13	53313	Atp2a3	0	0,62	9,98E-03
Q62421	31	10	79,97	20408	Sh3gl3	0	0,85	7,49E-01
Q6P5U7	7	11	44,58	319807	Nwd2	0	1,43	1,91E-01
P08414	17	7	71,4		Camk4	0	0,95	9,56E-01
Q5SVL6	19	9	64,74	380711	Rap1gap2	0	1,02	1,00E+00
Q8CDN6	34	7	57,74	53382	Txn1l	0	1,07	9,74E-01
K1H8_HUMAN	18	4	386,58			0	1,56	6,23E-02
Q91VZ6	15	5	79	98366	Smap1	0	1,08	9,67E-01
Q9ESJ4	19	12	44,48	80987	Nckipsd	0	1,08	9,56E-01
Q9D0I9	20	12	30,93	104458	Rars1	0	0,88	8,42E-01
Q8BPQ7	11	9	72,11	52850	Sgsm1	0	1,24	6,70E-01
P42669	26	6	107,39	19290	Pura	0	1,17	7,90E-01
Q921H8	25	7	35,56	113868	Acaa1a	0	0,99	9,85E-01
Q2PFD7	10	9	39,85	234353	Psd3	0	1,12	9,07E-01
Q8CGU1	15	9	42,44	67488	Calcoco1	0	1,08	9,74E-01
Q8BFT9	14	6	84,86	68666	Svop	0	0,92	9,12E-01
P62746	26	7	66,61	11852	Rhob	0	0,90	9,02E-01
Q9D4H8	13	10	64,16	71745	Cul2	0	0,99	9,85E-01
Q9CXW3	44	8	52,09	12301	Cacybp	0	1,13	9,02E-01
P13020	14	5	57,21	227753	Gsn	6	1,16	8,42E-01
Q61187	28	9	79,99	22088	Tsg101	0	0,90	8,42E-01
O88545	31	8	69,48	26893	Cops6	0	1,26	5,66E-01
P31254	7	8	130,34		Uba1y	0	1,38	2,59E-01
Q61206	26	6	46,73	18475	Pafah1b2	0	1,10	9,36E-01
O09111	49	6	74,55	104130	Ndufb11	0	0,79	5,27E-01
Q8CHP8	26	7	90,09	67078	Pgp	0	1,07	9,76E-01
O35435	28	9	32,36	56749	Dhodh	0	0,65	2,06E-01
Q8CFI0	14	10	50,67		Nedd4l	1	0,84	6,53E-01
K1H5_HUMAN	16	3	371,18			0	0,72	1,81E-01
Q9QWY8	11	10	23,73	13196	Asap1	1	1,08	9,62E-01
P62196	27	9	35,24	19184	Psmc5	1	0,98	9,76E-01
Q9JJK1	31	8	38,91	58244	Stx6	0	0,90	8,59E-01
Q8R191	28	6	229,3	20974	Syngr3	0	1,33	4,00E-01
Q61990	21	3	55,95	18521	Pcbp2	0	1,20	8,42E-01
Q05512	16	7	38,69	13728	Mark2	2	1,16	8,47E-01
Q8BHZ0	21	4	75,32	76820	Cyria	0	1,13	9,34E-01
Q9CZP5	21	7	68,36	66821	Bcs1l	0	0,78	4,95E-01
Q3UHC7	10	9	50,61	69601	Dab2ip	0	0,96	9,74E-01
Q9QVP9	11	9	39,49	19229	Ptk2b	1	0,99	9,78E-01

O70325	39	8	49,42	625249	Gpx4	0	0,94	9,39E-01
Q62393	28	6	62,76	21985	Tpd52	0	1,18	7,77E-01
Q99L43	12	4	90,38	110911	Cds2	0	0,93	9,24E-01
P29758	23	9	47,76	18242	Oat	0	0,66	4,67E-02
Q924N4	8	5	168,08	107723	Slc12a6	0	0,78	4,48E-01
P46664	24	8	56,81	11566	Adss2	0	0,94	9,56E-01
Q8CCB4	17	12	21,85	68299	Vps53	0	0,74	2,77E-01
Q9R1V7	10	7	66,34	23792	Adam23	0	1,05	9,76E-01
P47753	35	5	81,72		Capza1	0	2,19	1,02E-03
Q3B7Z2	16	8	37,66	76303	Osbp	0	1,47	2,60E-01
LYSC_CH ICK	44	6	38,99	396218	LYZ	0	1,10	9,74E-01
O88696	35	7	56,38	53895	Clpp	0	0,97	9,76E-01
Q9EP89	20	11	56,5	80907	Lactb	0	0,76	4,00E-01
Q80UJ7	13	11	34,3	226407	Rab3gap1	0	0,84	7,13E-01
Q7TQ95	34	9	42,49	69605	Ln timer	0	1,17	8,37E-01
Q8BIW1	20	7	44,37	229589	Prune1	0	1,30	5,87E-01
Q8CBE3	17	9	47,36	207615	Wdr37	0	1,52	7,23E-02
Q9WVE8	18	9	71,58	23970	Pacsin2	0	0,89	8,50E-01
Q9Z1Q2	19	8	55,94	193742	Abhd16a	0	1,02	1,00E+00
Q91VM9	22	7	57,02	74776	Ppa2	0	0,97	9,76E-01
Q99KB8	24	6	50,7	14651	Hagh	0	1,40	2,39E-01
Q61390	11	5	71,44	12467	Cct6b	0	1,45	1,66E-01
Q8CDG3	12	11	39,68	70675	Vcpip1	0	1,22	7,41E-01
Q9D0M5	40	4	75,69	68097	Dynll2	3	1,03	9,94E-01
P26638	19	8	33,03	20226	Sars1	0	0,88	8,89E-01
Q60854	20	8	66,16	20719	Serpinb6	0	1,32	4,29E-01
Q8K2K6	16	6	62,73	15463	Agfg1	0	1,29	5,52E-01
Q9WVJ2	32	11	47,26	23997	Psmc13	0	1,21	6,94E-01
P49442	22	7	44,85	16329	Inpp1	0	0,91	9,05E-01
Q99MN9	17	7	52,77	66904	Pccb	0	0,76	5,67E-01
Q9R1R2	13	8	53,27	55992	Trim3	0	0,95	9,70E-01
P24270	21	6	41,39	12359	Cat	0	0,97	9,81E-01
Q9D1K2	43	6	34,81	66144	Atp6v1f	0	1,40	2,37E-01
Q5DU25	9	8	40,89	245666	Iqsec2	0	1,30	7,80E-01
Q9DBP5	42	8	75,93	66588	Cmpk1	0	0,94	9,49E-01
O88384	38	8	56,07		Vti1b	0	0,84	6,74E-01
Q8VBZ3	21	9	30,02	56457	Clptm1	0	1,04	9,87E-01
Q9EPK7	10	10	42,37	65246	Xpo7	0	1,06	9,74E-01
P52196	26	6	52,76	22117	Tst	0	0,80	4,98E-01
Q9QYA2	17	5	30,63	53333	Tomm40	0	0,88	8,10E-01
Q9CQW2	35	5	121,3	67166	Arl8b	4	0,98	9,76E-01
Q9CR51	24	3	50,48	66290	Atp6v1g1	0	1,45	1,88E-01
P70208	4	2	48,79	18846	Plxna3	0	1,38	7,09E-01
Q8C0M9	27	8	74,02	66514	Asrgl1	0	1,16	8,33E-01
Q99JY8	22	8	97,1	67916	Plpp3	0	0,84	7,39E-01
Q1RLL3	13	7	66,58	211232	Cpne9	0	0,89	8,10E-01

Q9D4C9	26	6	74,49	74438	Clvs1	2	1,17	8,25E-01
Q9Z0V2	15	7	35,74	16508	Kend2	0	0,86	7,77E-01
Q8K2C9	17	7	74,54	57874	Hacd3	0	0,95	9,56E-01
Q91VE0	17	9	45,44	26569	Slc27a4	1	0,82	6,42E-01
Q9CZD3	15	10	35,12	353172	Gars1	0	1,04	9,77E-01
Q9CTY5	17	8	37,79	78506	Micu3	0	0,81	5,84E-01
Q50H33	17	5	61,49	243043	Kctd8	0	0,83	8,43E-01
P62071	32	4	54,06	66922	Rras2	2	1,13	8,91E-01
Q9JK48	26	8	61,26	54673	Sh3glb1	0	1,16	8,45E-01
Q9QYF9	23	6	75,22	29812	Ndr3	0	0,86	7,23E-01
Q9WTX6	17	13	28,88	26965	Cul1	0	0,96	9,70E-01
Q9D898	45	6	80,53	74192	Arpc5l	0	0,92	9,22E-01
Q8BK64	31	10	36,3	217737	Ahsa1	0	1,23	6,63E-01
Q3TDD9	15	8	15,93	73825	Ppp1r21	0	1,08	9,74E-01
Q3THS6	17	7	41,1	232087	Mat2a	0	1,21	8,01E-01
Q3ULD5	15	7	57,42	78038	Mccc2	0	0,71	2,72E-01
Q61885	33	8	81,72	17441	Mog	0	0,84	7,18E-01
Q8BGU5	28	8	41,72	67974	Ccny	0	1,04	9,79E-01
P19536	36	6	86,69		Cox5b	0	1,07	9,74E-01
P35293	36	7	103,47	19330	Rab18	0	1,10	9,40E-01
P61089	46	8	70,17	93765	Ube2n	0	0,95	9,74E-01
Q61151	21	6	59,45	26932	Ppp2r5e	2	1,09	9,56E-01
Q8CC88	8	13	5,74	219189	Vwa8	0	0,88	8,86E-01
Q9DCL9	21	10	55,8	67054	Paics	0	0,99	9,77E-01
P59016	20	11	22,64	233405	Vps33b	0	0,93	9,34E-01
Q9D517	23	10	69,52	28169	Agpat3	0	1,01	1,00E+00
Q9Z127	10	6	87,49	20539	Slc7a5	0	1,00	9,91E-01
Q9QZQ1	8	12	13,69	17356	Afdn	0	0,98	9,85E-01
P47740	18	7	27,68	11671	Aldh3a2	0	0,97	9,76E-01
P45952	19	8	81,11	11364	Acadm	0	0,82	6,07E-01
Q9QXX4	12	3	138,55	50799	Slc25a13	0	0,63	4,61E-01
Q80UU9	38	5	42	70804	Pgrmc2	0	1,10	9,48E-01
Q80ZJ1	40	4	83,15	76108	Rap2a	0	1,06	9,74E-01
Q8C166	15	8	63,27	266692	Cpne1	1	1,00	9,87E-01
P58771	23	8	65,2	22003	Tpm1	0	1,33	4,00E-01
Q3V1U8	19	4	53,68	270162	Elmod1	0	0,84	8,25E-01
Q8BLR2	16	7	56,07	74020	Cpne4	0	1,28	6,58E-01
Q7TNP2	10	5	62,1	73699	Ppp2r1b	0	0,79	4,06E-01
Q9Z1W9	12	5	25,39	53416	Stk39	1	1,31	4,72E-01
P35546	12	12	13,62	19713	Ret	0	2,35	1,04E-04
P03911	11	5	95,15	17719	Mtnd4	0	0,81	6,15E-01
O09061	28	6	49,9	19170	Psmb1	0	1,13	9,05E-01
P12849	17	4	51,22	19085	Prkar1b	0	0,99	9,91E-01
Q9QYJ0	30	11	56,46	56445	Dnaja2	0	1,20	7,86E-01
Q3UTJ2	13	11	26,63	234214	Sorbs2	0	1,04	9,79E-01
P08226	32	9	51,32	11816	Apoe	0	0,92	9,18E-01
Q9Z1R2	9	7	41,71	224727	Bag6	0	1,21	7,89E-01



Q9CPQ8	33	2	20,99	27425	Atp5mg	0	0,87	8,10E-01
O35864	24	7	76,02	26754	Cops5	0	1,12	9,16E-01
Q8BTG7	26	7	52,31	234593	NdrG4	0	0,91	8,97E-01
Q9CZR3	16	5	72,76	641376	Tomm40l	0	0,65	4,79E-02
Q9EST1	11	7	70	57911	Gsdma	0	0,96	9,71E-01
P21271	3	7	137,74		Myo5b	0	1,23	7,02E-01
Q9CQS4	24	7	64,22	67453	Slc25a46	0	0,81	5,77E-01
Q9R1P3	34	6	55,69	26445	Psmb2	0	1,43	2,18E-01
O35639	35	9	27,17	11745	Anxa3	1	0,39	1,45E-07
Q8K3J1	37	8	72,25	225887	Ndufs8	0	0,78	4,83E-01
Q9JMH9	6	10	13,68	360013	Myo18a	0	0,90	8,91E-01
Q9EPR5	10	12	31,55	81840	Sorcs2	0	0,86	7,61E-01
Q71M36	17	7	76,7	29873	Cspg5	0	1,09	9,44E-01
Q80U23	25	10	26,62	241727	Snph	0	0,99	9,76E-01
P12023	17	9	25,73	11820	App	1	1,01	9,97E-01
TRFL_HU MAN	15	10	18,58	4057	HEL110; LTF	0	3,30	2,00E-13
B1AZP2	12	8	35,66	228836	Dlgap4	0	1,06	9,76E-01
Q7TNC9	23	10	29,37	212111	Inpp5a	0	1,14	8,70E-01
Q80YA9	11	8	34,43	245684	Cnksr2	0	1,29	6,61E-01
Q9DC70	18	5	80,33	75406	Ndufs7	0	1,10	9,39E-01
P40336	23	5	53,74	30930	Vps26a	0	1,15	8,78E-01
Q80TL0	9	5	42,21	320472	Ppm1e	0	0,96	9,74E-01
P56695	12	8	29,52	22393	Wfs1	0	0,98	9,78E-01
Q0VE82	19	9	49,19	102278	Cpne7	0	1,72	1,07E-02
O89112	15	6	89,56	14768	Lancl1	0	0,90	8,93E-01
Q99P58	43	8	55,43	80718	Rab27b	0	1,11	9,34E-01
Q922B2	20	9	34,46	226414	Dars1	0	0,82	6,33E-01
Q920M7	26	10	34,98	110058	Syt17	0	2,06	6,37E-04
Q62425	48	6	101,79	17992	Ndufa4	0	0,73	2,39E-01
Q811P8	6	10	26,58	330914	Arhgap32	1	1,13	9,09E-01
Q8BHF7	16	7	40,36	74451	Pgs1	0	0,96	9,64E-01
Q6P5F7	15	7	54,68	78339	Ttyh3	0	0,92	9,27E-01
A2A5R2	8	8	19,29	99371	Arfgef2	5	1,09	9,65E-01
Q64010	50	11	72,61	12928	Crk	0	0,93	9,23E-01
Q8BHL5	13	5	20,08	140579	Elmo2	0	1,15	8,91E-01
P28271	10	7	37,97	11428	Aco1	0	0,96	9,74E-01
Q3UH60	8	11	30,86	239667	Dip2b	0	1,12	9,16E-01
Q99J47	23	8	22,17	216820	Dhrs7b	0	0,85	8,95E-01
P27612	12	8	23,29	18786	Plaa	0	0,96	9,76E-01
Q99JY0	20	9	48,72	231086	Hadhb	0	0,75	2,56E-01
Q9R0P5	32	4	112,78	56431	Dstn	0	1,01	9,99E-01
Q8CIG8	18	11	32,77	27374	Prmt5	0	1,07	9,76E-01
P63137	19	4	43,81	14401	Gabrb2	1	0,98	9,85E-01
O35682	19	4	90,09	50918	Myadm	0	1,12	9,03E-01
Q62283	18	4	85,59	21912	Tspan7	0	1,01	1,00E+00
Q9DCT8	34	3	34,87	68337	Crip2	0	1,25	6,86E-01

Q9D0L7	31	7	53,03	67211	Armc10	0	0,93	9,32E-01
Q5SSM3	9	7	36,92	216831	Arhgap44	0	1,39	4,42E-01
Q9Z2C4	14	9	48,19	53332	Mtmr1	0	0,93	9,21E-01
P54822	20	7	45,41	11564	Adsl	0	1,03	9,96E-01
Q80XI4	15	3	52,66	108083	Pip4k2b	0	1,06	9,76E-01
Q61831	17	2	56,95	26414	Mapk10	6	1,07	9,67E-01
P55288	14	8	29,47	12552	Cdh11	0	1,02	1,00E+00
Q9QXW9	11	6	69,25	50934	Slc7a8	0	0,94	9,42E-01
GELS_HUMAN	12	3	40,95	2934	GSN	0	0,37	4,63E-03
Q8BNU0	25	8	46,14	76813	Armc6	0	1,40	3,35E-01
Q99MX7	18	6	32,98	94047	Tmem121b	0	0,88	8,23E-01
Q922Q1	23	9	76,97	67247	Mtarc2	0	0,81	6,36E-01
O70252	23	7	32,43	15369	Hmox2	0	1,02	1,00E+00
Q9CPU4	33	4	61,46	66447	Mgst3	0	0,75	3,03E-01
Q7TPB0	12	7	38,47	216152	Plppr3	0	0,83	8,11E-01
P22723	13	7	39,89	14406	Gabrg2	0	1,42	2,28E-01
Q8BPU7	13	7	15,84	140580	Elmo1	1	0,97	9,76E-01
Q9CQ54	35	6	78,27	68197	Ndufc2	0	0,76	3,68E-01
Q63810	25	5	107,25	19058	Ppp3r1	0	1,43	1,46E-01
Q9D2N4	11	7	45,78	13527	Dtna	0	1,06	9,76E-01
P50171	31	6	42,92	14979	Hsd17b8	0	0,65	2,28E-01
O70503	30	8	34,76	56348	Hsd17b12	0	1,09	9,56E-01
O54833	20	6	31,26	13000	Csnk2a2	0	1,22	7,73E-01
Q9R1P0	28	8	82,46	26441	Psma4	0	1,17	8,01E-01
Q9WV69	26	9	49,24	13829	Dmtn	0	1,09	9,59E-01
O35295	23	6	53,38	19291	Purb	0	0,96	9,74E-01
Q32MW3	18	9	61,39	64833	Acot10	0	1,05	9,76E-01
Q9JIF0	23	6	47,23	15469	Prmt1	3	0,93	9,34E-01
P29533	14	8	24,46		Vcam1	0	1,18	8,09E-01
Q9CYH2	35	8	59,02	70564	Prxl2a	0	0,93	9,32E-01
Q6KAR6	11	7	41,79	211446	Exoc3	0	0,89	8,42E-01
P20917	14	6	34,08	17136	Mag	0	0,96	9,71E-01
P50571	20	3	23,65	14400	Gabrb1	0	0,94	9,48E-01
Q8K354	37	7	68,82	109857	Cbr3	0	0,93	9,36E-01
Q6VNS1	8	3	62,35	18213	Ntrk3	0	0,97	9,76E-01
Q8VDP6	22	4	52,61	52858	Cdipt	0	1,13	9,02E-01
P63168	40	2	64,36	56455	Dynll1	0	1,59	4,46E-01
Q99J99	27	7	43	246221	Mpst	0	0,82	6,29E-01
Q8BY89	11	7	74,02	68682	Slc44a2	0	0,78	4,04E-01
Q3UIU2	36	5	49,68	230075	Ndufb6	0	0,76	3,81E-01
Q80WG5	13	10	34,29	241296	Lrrc8a	1	0,82	6,52E-01
Q9QUP5	24	9	66,93	12950	Hapln1	0	1,12	9,23E-01
P15209	11	4	23,19	18212	Ntrk2	4	1,03	9,91E-01
Q8BTX9	15	5	72,75	72552	Hsd11	0	1,12	9,16E-01
Q8BJU0	27	7	56,03	52551	Sgta	0	0,90	8,85E-01
B0F2B4	8	3	62,22		Nlgn4l	0	1,04	9,97E-01

Q6P5F9	8	7	19,5	103573	Xpo1	0	1,01	1,00E+00
Q8VCW8	13	7	41,55	264895	Acsf2	0	0,67	2,91E-01
Q8VEH5	10	5	32,97	77781	Epm2aip1	0	1,10	9,65E-01
Q9D5T0	25	7	22,11	67979	Atad1	0	1,04	9,85E-01
Q8R0S4	17	3	47,36	12298	Cacnb4	0	0,86	9,16E-01
Q6PGE7	8	6	74,88	240332	Slc6a7	0	1,02	9,91E-01
Q9Z2U1	24	5	87,5	26442	Psma5	0	1,05	9,76E-01
P24369	35	7	33,61	19035	Ppib	0	1,13	9,19E-01
P63037	19	6	36,67	15502	Dnaja1	0	1,23	6,51E-01
O70456	19	2	270,49	55948	Sfn	0	1,14	9,71E-01
Q9WTQ5	8	9	6,68	83397	Akap12	0	1,20	8,91E-01
Q06890	19	9	41,79	12759	Clu	0	0,96	9,74E-01
P62743	36	5	74,95	232910	Ap2s1	0	1,16	8,33E-01
P55302	26	9	30,63	16976	Lrpap1	0	0,79	5,68E-01
Q0VBF8	21	2	102,41	381310	Stum	0	0,92	8,93E-01
Q9CR26	20	5	39,25	66201	Vta1	0	1,07	9,74E-01
Q920P3	12	9	37,15	56710	Brinp1	0	0,98	9,78E-01
Q9D6F4	22	9	26,76	14397	Gabra4	0	0,90	8,89E-01
Q64331	8	8	29,75		Myo6	0	1,16	8,54E-01
Q6GQT9	9	9	20,11	211548	Nomo1	0	0,66	1,46E-01
Q9DBT5	11	9	40,12	109674	Ampd2	0	1,11	9,12E-01
Q99LR1	15	6	46,61	76192	Abhd12	0	1,12	9,34E-01
Q8R550	17	10	15,5	58194	Sh3kbp1	0	1,08	9,61E-01
P26048	14	3	54,61	14395	Gabra2	0	0,81	7,18E-01
P54728	24	10	47,76	19359	Rad23b	0	0,91	9,09E-01
Q9CZY3	41	6	96,35	66589	Ube2v1	0	1,01	1,00E+00
P28571	9	5	54,23	14664	Slc6a9	0	0,77	4,24E-01
Q9CRB6	35	7	62,58	67971	Tppp3	0	1,17	8,44E-01
A2ASZ8	16	5	56,96	227731	Slc25a25	0	0,79	5,02E-01
Q3UEZ8	5	3	71,88	231290	Slc10a4	0	2,47	4,67E-08
Q9JJV2	36	5	69,76	18645	Pfn2	0	1,35	3,68E-01
Q9CR61	45	5	39,11	66916	Ndufb7	0	1,07	9,74E-01
Q91ZU6	2	11	1,66	13518	Dst	0	0,84	8,85E-01
Q5PR73	41	6	85,42	68203	Diras2	0	1,05	9,78E-01
P11404	61	8	84,86	14077	Fabp3	0	1,18	7,74E-01
Q9D1G5	38	9	28,95		Lrrc57	0	0,98	9,76E-01
Q6PDL0	17	7	40,48	234663	Dync1li2	0	1,03	9,97E-01
Q922Q4	32	7	37,62	69051	Pycr2	0	0,94	9,56E-01
Q8C078	20	10	26,95	207565	Camkk2	0	1,00	9,87E-01
Q06138	24	8	30,81	12283	Cab39	0	1,21	7,39E-01
Q6NS60	12	10	50,74	330369	Fbxo41	0	1,14	8,91E-01
P47934	13	7	35,35	12908	Crat	0	0,95	9,64E-01
P60766	31	4	78,36	12540	Cdc42	0	1,64	2,22E-02
O88543	14	5	61,71	26572	Cops3	0	1,05	9,78E-01
P47199	31	7	39,72	12972	Cryz	0	0,71	1,72E-01
A2A690	5	11	3,95	77097	Tanc2	0	1,08	9,65E-01
Q99KH8	21	4	39,57	223255	Stk24	4	1,32	4,82E-01

Q8VHJ5	11	5	32,59	226778	Mark1	0	0,83	8,11E-01
P48193	13	5	11,84	269587	Epb41	0	0,87	9,32E-01
O54901	16	4	100,33		Cd200	0	1,56	4,81E-02
Q61735	18	5	110,14	16423	Cd47	0	0,89	8,58E-01
Q7TSQ8	10	9	31,53	319518	Pdpr	0	0,75	3,18E-01
Q8BH44	17	9	28,45	235431	Coro2b	0	1,21	7,61E-01
Q9D892	23	5	60,07	16434	Itpa	0	1,08	9,67E-01
Q9D819	23	8	69,4	67895	Ppa1	0	1,08	9,67E-01
P84084	34	4	106,38	11844	Arf5	0	1,13	9,02E-01
Q9R257	26	4	27,44	15199	Hebp1	0	0,89	9,34E-01
Q920E5	24	7	42,9	110196	Fdps	0	1,40	2,39E-01
P55066	7	10	93,03	13004	Ncan	0	0,99	9,81E-01
Q9CQZ5	54	6	75,36	67130	Ndufa6	0	0,98	9,76E-01
Q9JI18	2	9	14,88		Lrp1b	0	1,11	9,76E-01
Q80UW2	24	5	68,94	230904	Fbxo2	0	0,81	7,33E-01
P60764	33	2	99,93	170758	Rac3	0	1,62	1,94E-01
Q9JIW9	27	4	47,7	64143	Ralb	0	1,22	9,23E-01
Q8CHU3	16	7	24,35	13855	Epn2	0	0,78	6,82E-01
Q9DBE8	15	5	23,69	56737	Alg2	0	0,79	6,58E-01
Q3UH66	6	8	26,3	75607	Wnk2	2	1,01	9,97E-01
Q791T5	21	7	58,57	56462	Mtch1	0	0,73	2,19E-01
Q9Z0J4	7	8	31,58	18125	Nos1	0	0,81	6,07E-01
F8VPU2	8	7	42,05	223254	Farp1	0	0,74	3,02E-01
Q99KE1	15	5	54,62	107029	Me2	0	0,92	9,56E-01
Q8K097	7	2	58,23	72393	Faim2	0	1,00	9,96E-01
O35963	16	2	187,52	19338	Rab33b	0	1,16	8,91E-01
Q61035	18	2	58,57	15115	Hars1	7	1,45	1,61E-01
Q9WTR5	11	5	48,28	12554	Cdh13	0	0,88	8,07E-01
Q80VL1	19	8	22,77	72634	Tdrkh	0	0,71	3,52E-01
Q9D8U8	19	8	45,11	69178	Snx5	0	0,88	7,86E-01
D3YWQ0	8	6	26,31	320127	Dgki	0	1,07	9,76E-01
Q8BH55	11	7	24,02	208967	Thns11	0	0,78	5,84E-01
P55088	20	5	46,45	11829	Aqp4	0	0,70	1,28E-01
P70182	5	3	48,71	18720	Pip5k1a	0	1,06	9,76E-01
P47746	10	6	52,94	12801	Cnr1	0	0,79	5,42E-01
P63046	20	5	30,14	29859	Sult4a1	0	1,19	8,33E-01
Q8BJY1	14	7	47,08	66998	Psmc5	0	0,97	9,74E-01
P62827	32	7	106,44	19384	Ran	0	1,13	8,85E-01
P04370	18	5	67,5	17196	Mbp	0	0,68	8,48E-02
P02088	45	4	84,12	100503 605; 101488 143; 15129	Hbb-b1	0	1,27	5,85E-01
P47809	18	6	63,52	26398	Map2k4	0	1,29	5,46E-01
Q9WTX5	39	6	39,21	21402	Skp1	0	1,11	9,56E-01
Q9JHK4	17	10	32,89	56187	Rabggt	0	0,73	1,94E-01
Q9D7B6	23	9	18,72	66948	Acad8	0	1,16	8,89E-01

P97315	30	5	47,69	13007	Csrp1	0	0,76	3,87E-01
P09528	42	8	51,88	14319	Fth1	0	1,18	7,50E-01
Q64433	65	7	61,91	15528	Hspe1	0	1,15	8,43E-01
Q69Z98	13	5	30,31	75770	Brsk2	2	1,23	7,46E-01
P12787	27	5	82,04	12858	Cox5a	0	0,82	6,74E-01
Q3THK7	13	7	22,17	229363	Gmps	0	1,01	1,00E+00
Q6I6G8	7	9	7,99	329152	Hecw2	0	1,36	6,27E-01
Q9ERB0	35	7	23,03	67474	Snap29	0	1,17	8,25E-01
P84086	31	2	34,39	12890	Cplx2	4	0,95	9,70E-01
Q3TY60	17	5	27,51	76156	Fam131b	0	0,95	9,74E-01
Q0VBK2	12	6	104,39	74127	Krt80	0	1,10	9,48E-01
Q8K0T7	2	6	20,74	208898	Unc13c	0	1,27	6,42E-01
Q8R574	25	6	28,65	212627	Prpsap2	1	0,85	7,09E-01
Q8C031	13	6	28,72	241568	Lrrc4c	0	1,11	9,41E-01
Q99PL6	22	9	58,49	66530	Ubxn6	0	1,10	9,34E-01
Q8BGZ1	32	3	44,56	170638	Hpcal4	0	1,10	9,64E-01
Q01063	9	4	38,08	238871	Pde4d	2	1,63	4,81E-02
Q3UHH2	11	6	45,8	73102	Slc22a23	0	1,00	1,00E+00
O35449	12	3	65,59	260297	Prrt1	0	0,96	9,72E-01
O88746	16	5	45,8	21968	Tom1	0	1,12	9,34E-01
P42125	26	6	16,33	13177	Eci1	0	0,79	5,32E-01
B1AXV0	22	8	43,14	230235	Frrs11	0	0,91	8,85E-01
Q5DTL9	9	8	15,53	94229	Slc4a10	0	0,95	9,76E-01
Q61627	10	7	31,17	14803	Grid1	1	0,65	2,15E-01
Q9Z0P5	15	3	35,23	23999	Twf2	0	1,02	1,00E+00
Q9WUM3	18	8	40,48	23789	Coro1b	0	1,03	9,94E-01
Q9CQ60	31	7	20,59	66171	Pgls	0	1,01	1,00E+00
P56391	80	8	62,26	110323	Cox6b1	0	0,75	3,29E-01
Q8BVQ5	17	6	46,67	72590	Ppme1	0	1,18	8,49E-01
Q9D0M1	25	5	32,47	67763	Prpsap1	0	1,14	9,16E-01
Q8CE50	20	8	22,12	209131	Snx30	0	0,92	9,30E-01
Q8R3Q2	9	5	19,93		Ppp6r2	0	1,30	8,51E-01
P22892	10	10	59,72	11765	Ap1g1	0	0,99	9,83E-01
P57776	21	4	34,35	66656	Eef1d	0	1,06	9,78E-01
P18242	19	5	34	13033	Ctsd	0	0,64	2,37E-02
P97370	24	6	58,98	11933	Atp1b3	0	1,07	9,71E-01
Q8CJH3	5	8	52,46	235611	Plxnb1	1	0,89	8,62E-01
CAS2_BO VIN	31	7	36,74	109560 546; 282209	CSN1S2; LOC1095 60546; LOC1138 94643	0	1,08	9,60E-01
Q91YE6	7	5	36,2		Ipo9	0	0,95	9,76E-01
P14869	25	6	29,93	11837	Rplp0	0	0,97	9,76E-01
Q91YP2	15	8	30,93	75805	Nln	0	0,90	8,86E-01
Q9CPQ1	63	7	81,91	12864	Cox6c	0	1,13	8,86E-01
THIO_HU MAN	35	2	83,08			2	1,23	6,58E-01

Q9CZN4	15	5	44,49	72555	Shisa9	0	1,12	9,25E-01
P70408	10	6	33,21	320873	Cdh10	1	0,91	9,50E-01
Q9CWH6	16	3	79,8	73677	Psma8	0	1,27	5,84E-01
Q8BLJ3	17	4	20,17	239318	Plexd3	0	2,16	2,11E-02
Q9Z1P6	64	7	38,26	66416	Ndufa7	0	0,94	9,34E-01
Q6PD03	15	5	25,13	226849	Ppp2r5a	0	1,02	1,00E+00
Q7TN29	21	6	57,8	69780	Smap2	1	0,97	9,74E-01
O35681	12	6	49,49	20981	Syt3	0	0,94	9,56E-01
Q9CQ62	16	4	66,33	67460	Decr1	0	0,95	9,56E-01
Q8BFZ9	20	4	47,69	244373	Erlin2	1	1,06	9,74E-01
Q91Y86	20	3	28,35	26419	Mapk8	1	1,02	1,00E+00
Q9CXZ1	31	5	42,99	17993	Ndufs4	0	0,82	6,27E-01
Q9WUK2	24	4	49,92	22384	Eif4h	0	0,84	7,52E-01
O88441	16	5	46,28	53375	Mtx2	0	0,78	4,01E-01
P26049	16	5	33,64	14396	Gabra3	0	0,48	4,21E-03
Q9Z329	3	10	3,71	16439	Itpr2	0	0,99	9,80E-01
Q62083	16	6	33,66		Pick1	0	1,07	9,74E-01
Q920Q4	9	7	48,67		Vps16	0	1,01	1,00E+00
Q8VBV7	30	4	45,46	108679	Cops8	0	1,06	9,76E-01
Q3TLI0	6	7	14,03			0	0,79	4,61E-01
Q9CYZ2	29	5	40,8	66314	Tpd5212	0	1,36	3,52E-01
Q6A065	5	5	10,79	545389	Cep170	2	1,24	8,43E-01
Q60575	4	7	39,78	16561	Kif1b	0	1,01	1,00E+00
Q9EQ80	25	7	27,23	65102	Nif311	0	1,09	9,64E-01
Q9R1Q9	7	5	79,52	54411	Atp6ap1	0	1,13	8,85E-01
P20352	20	5	30,23	14066	F3	0	1,05	9,83E-01
P53395	19	9	32,7	13171	Dbt	0	0,78	4,63E-01
Q9CQ92	24	4	33,41	66437	Fis1	0	2,12	1,14E-04
Q69Z26	7	6	32,38	269784	Cntn4	0	0,93	9,42E-01
Q91YI0	18	7	11,49	109900	Asl	0	0,83	6,90E-01
Q3UHK1	11	7	11,97	239606	Slc2a13	0	1,30	5,42E-01
P70181	4	2	33,2	18719	Pip5k1b	0	0,94	9,39E-01
Q8K012	14	8	18,59		Fnbp11	0	0,97	9,77E-01
Q6NVG1	12	5	33,22	99010	Lpcat4	0	0,93	9,74E-01
P84096	26	2	41,67	56212	Rhog	0	0,75	7,38E-01
P52760	42	5	40,07	15473	Rida	0	1,08	9,63E-01
Q91YP0	16	7	35,7	217666	L2hgdh	0	0,83	8,65E-01
Q9DCP2	11	5	59,69	76257	Slc38a3	0	1,20	7,49E-01
Q923S9	32	4	157,21	75985	Rab30	0	0,86	8,85E-01
Q99L04	22	7	59,99	52585	Dhrs1	0	0,79	4,98E-01
P11835	10	6	14,21	16414	Itgb2	0	0,40	1,06E-02
Q99P47	7	9	13,37	170571	Cntnap4	0	1,29	7,99E-01
Q9DCR2	34	6	20,86	11777	Ap3s1	0	1,22	7,93E-01
Q8R317	17	5	19,57	56085	Ubqln1	0	1,15	9,64E-01
Q8C7X2	8	6	31,36	230866	Emc1	0	0,84	6,92E-01
P14206	22	5	42,59	16785	Rpsa	0	1,17	8,86E-01
P97445	3	6	34,32	12286	Cacna1a	0	1,02	1,00E+00

Q8BVI5	19	5	15,77	228960	Stx16	0	0,95	9,76E-01
Q99K10	6	2	78,69	192167	Nlgn1	0	1,07	9,74E-01
Q6NVE9	21	5	15,97	320717	Pptc7	0	0,62	2,75E-01
Q6PAK3	16	4	43,11	381813	Prmt8	0	1,01	9,96E-01
Q9CR00	30	6	31,67	67151	Psmc9	0	1,26	5,86E-01
Q6NVE8	10	7	16,11	72404	Wdr44	0	1,36	4,13E-01
P43406	10	9	8,51	16410	Itgav	0	1,04	9,85E-01
Q8BW96	22	3	27,4	227541	Camk1d	4	1,22	8,40E-01
Q8C522	12	5	34,22	71946	Endod1	0	1,14	8,95E-01
P34152	7	5	32,08	14083	Ptk2	0	0,96	9,76E-01
P57759	27	6	47,34	67397	Erp29	0	0,88	8,25E-01
P35436	6	8	9,41	14811	Grin2a	0	1,16	8,45E-01
Q9D0L4	13	5	13,56	72113	Adck1	0	0,77	6,46E-01
Q640R3	16	5	36,9	72927	Hepacam	0	1,17	8,53E-01
Q7TSF0	4	5	76,27	211924	Dsg1c	0	0,91	9,15E-01
Q9WV31	15	5	43,07	11838	Arc	0	0,95	9,70E-01
Q5M8N4	22	6	39,01	654795	Sdr39u1	0	1,07	9,76E-01
P03888	11	4	39,8	17716; 333890 2	Mtnd1	0	0,92	9,09E-01
Q9Z0Y1	38	9	78,96	53598	Dctn3	0	1,23	6,42E-01
P28474	19	6	39,59	11532	Adh5	0	1,12	9,17E-01
P16332	10	5	17,19	17850	Mmut	0	1,10	9,32E-01
P56135	38	3	53,62	57423	Atp5mf	0	0,77	4,31E-01
Q8JZZ7	4	3	19,77		Adgrl2	0	1,04	1,00E+00
Q9JI46	36	4	37,03	56409	Nudt3	1	0,99	9,85E-01
Q8CHT1	11	7	35,9	53972	Ngef	0	1,18	7,99E-01
Q9DB75	18	3	50,31	66626	Cdip1	0	0,84	6,61E-01
P18052	8	5	27,64	19262	Ptpa	1	0,73	3,76E-01
Q9JMH6	11	6	46,45	50493	Txnrd1	0	1,26	6,58E-01
Q62433	16	4	38,54	17988	Ndrp1	0	1,08	9,76E-01
Q9DCZ4	27	5	80,41	68316	Apoo	0	0,93	9,25E-01
P54227	36	4	82,23	16765	Stmn1	2	0,96	9,74E-01
Q9JL56	21	7	54,3	56209	Gde1	0	0,99	9,78E-01
Q9QUR7	50	5	26,98	23988	Pin1	0	1,15	8,81E-01
B2RUJ5	11	7	25,8	319924	Apba1	0	1,57	4,46E-02
P59999	36	6	78,99	68089	Arpc4	0	1,17	7,90E-01
P11352	29	6	38,41	14775	Gpx1	0	1,01	1,00E+00
Q9CWE0	20	5	31,23	76824	Mtfr11	0	0,96	9,76E-01
A2AGL3	2	5	3,88	20192	Ryr3	0	0,86	9,47E-01
Q9D379	22	9	24,37	13849	Ephx1	0	1,11	9,41E-01
Q61543	5	6	25,19	20340	Glg1	0	0,99	9,94E-01
Q9DBR7	9	7	15,81	17931	Ppp1r12a	0	1,51	2,83E-01
Q9CQM9	19	6	34,21	30926	Glx3	0	0,95	9,60E-01
Q9Z0F7	45	5	18,81	20618	Sncg	0	1,89	2,51E-03
Q68ED2	10	6	23,08	108073	Grm7	1	0,89	9,24E-01
Q9DB60	27	5	31,96	66469	Prxl2b	0	1,09	9,64E-01

P28028	9	5	39,42			2	0,85	7,12E-01
Q8BRU6	6	3	26,26	214084	Slc18a2	0	3,45	1,60E-16
P35283	25	4	151,48	19328	Rab12	0	1,92	1,80E-01
Q9D906	14	9	9,82	74244	Atg7	0	1,23	6,82E-01
Q6IR34	16	9	6,33	67839	Gpsm1	0	1,13	9,12E-01
G3X9K3	5	4	15,98	211673	Arfgef1	0	0,98	9,76E-01
Q64467	5	2	168,55	14447	Gapdhs	0	0,77	4,28E-01
P59017	18	5	8,37	94044	Bcl2l13	0	0,82	6,42E-01
Q32M21	7	5	27,53	76758	Gsdma2	0	0,77	4,61E-01
Q8K0G5	17	5	31,98	380752	Eipr1	0	1,30	5,50E-01
Q11136	15	8	26,4	18624	Pepd	0	1,42	2,01E-01
Q9D7N9	17	7	28,11	71881	Apmap	0	0,97	9,76E-01
Q6ZPJ3	8	9	9,48	217342	Ube2o	0	1,39	4,72E-01
Q9JKD3	25	3	246,67	56807	Scamp5	0	1,21	7,23E-01
Q01341	6	6	26,56	11512	Adcy6	0	0,93	9,39E-01
Q9JHW2	24	6	35,26	52633	Nit2	0	0,77	5,45E-01
Q9D710	19	6	34,27	66958	Tmx2	0	1,00	1,00E+00
Q8VD65	6	7	8,94	75669	Pik3r4	0	1,07	9,78E-01
Q9R1V4	8	5	23,79	11488	Adam11	0	1,01	9,97E-01
Q9WV54	15	6	16,9	11886	Asah1	0	0,42	2,58E-05
Q5M8N0	30	5	80,61	380686	Cnrip1	0	1,16	8,57E-01
Q80W21	19	3	101,45	68312	Gstm7	0	1,06	9,74E-01
Q8C5H8	17	6	19,17	68646	Nadk2	0	0,59	2,27E-01
ANXA5_HUMAN	15	6	43,92			0	0,92	9,18E-01
O08795	10	6	39,04	19089	Prkesh	0	0,83	6,52E-01
Q8CHT0	10	5	23,84	212647	Aldh4a1	0	0,74	3,31E-01
A2AJA9	9	7	10,72	381353	Ajm1	0	1,16	8,94E-01
Q924L1	20	6	17,9	68614	Letmd1	0	0,79	6,95E-01
Q8BRF7	11	5	24,6	76983	Scfd1	0	1,09	9,76E-01
Q3TPX4	12	8	21,11	105504	Exoc5	0	0,91	9,12E-01
Q8BGQ1	15	5	16,29	104799	Vipas39	0	0,95	9,76E-01
Q06185	66	5	86,04	11958	Atp5me	0	1,38	2,43E-01
Q9CPX6	19	5	46,61	67841	Atg3	0	1,36	6,66E-01
Q8K1Z0	15	4	38,47	67914	Coq9	0	0,68	1,44E-01
Q62159	18	5	67,21	11853	Rhoc	0	0,96	9,64E-01
Q9JKB1	31	5	8,34	50933	Uchl3	0	0,83	7,86E-01
Q8VCH0	12	4	22,9	235674	Acaa1b	0	1,10	9,76E-01
P27546	7	6	37,02	17758	Map4	0	0,75	4,31E-01
Q3U0M1	7	7	14,12	76510	Trappc9	0	0,98	9,78E-01
CYC_HUMAN	27	5	50,24			0	0,97	9,76E-01
P34022	37	6	56,92	19385	Ranbp1	0	1,01	9,99E-01
Q8BYA0	7	6	15,12	108903	Tbcd	0	0,88	9,25E-01
P36993	16	3	18,21	19043	Ppm1b	0	1,36	7,86E-01
Q8BXX8	8	3	44,06	347722	Agap1	0	1,23	9,03E-01
Q6X893	10	5	20,73	100434	Slc44a1	0	0,87	9,12E-01
P34914	11	5	32,84	13850	Ephx2	0	0,99	9,97E-01



Q00558	14	3	33,56		F8a1	0	0,94	9,74E-01
Q9D4H1	9	8	10,59	66482	Exoc2	0	1,10	9,56E-01
Q8CIQ7	4	7	5,93		Dock3	1	1,19	8,93E-01
P59108	10	4	27,45	234577	Cpne2	0	0,85	8,93E-01
O35344	12	4	13,16	16648	Kpna3	2	0,96	9,76E-01
Q9CY64	23	6	25,92	109778	Blvra	0	0,87	9,11E-01
GAG_SCV LA	10	8	30,75	940477	gag	0	0,01	1,60E-16
Q3U5Q7	14	6	29,54	22169	Cmpk2	0	1,03	9,91E-01
Q60613	10	3	42,27	11540	Adora2a	0	0,64	1,53E-01
Q9D8B3	19	4	43,29	75608	Chmp4b	0	1,05	9,76E-01
Q6P9R2	13	5	3,85	108737	Oxsr1	0	1,03	1,00E+00
Q9JJ69	23	6	28,54	80906	Kcnp2	0	0,95	9,64E-01
Q8C7M3	7	5	29,73	94090	Trim9	0	0,92	9,56E-01
D3YZI9	12	6	40,52	209966	Pgbd5	0	1,23	7,02E-01
P62806	39	4	45,36	100041 230; 319155; 319156; 319157; 319158; 319159; 319160; 319161; 320332; 326619; 326620; 69386; 97122	H4c1; H4c11; H4c12; H4c14; H4c2; H4c3; H4c4; H4c6; H4c8; H4c9; H4f16; Hist1h4m	0	1,21	7,41E-01
Q9Z110	9	6	33,07	56454	Aldh18a1	0	1,00	9,91E-01
P30416	14	7	34,96	14228	Fkbp4	0	1,09	9,57E-01
A2A699	10	6	33,92	217219	Fam171a 2	0	0,86	7,33E-01
P63028	23	3	32,98	22070	Tpt1	0	1,25	6,72E-01
Q8VHK5	14	3	11,39	170790	Mlc1	0	1,07	9,78E-01
Q9CQI3	31	4	40,1	63985	Gmfb	0	1,09	9,64E-01
Q7TNR6	15	5	37,41	230868	Igsf21	0	1,01	9,99E-01
Q08189	5	3	44,86	21818	Tgm3	0	0,87	7,90E-01
P04925	13	3	46,34	19122	Prnp	0	1,05	9,76E-01
P61082	30	6	39,05	22192	Ube2m	0	1,14	8,85E-01
Q8CFE4	9	7	6,21	213326	Scyl2	0	0,98	9,87E-01
Q9WU79	11	4	24,59	19125	Prodh	0	1,17	9,56E-01
Q7TPM6	10	5	25,55	240121	Fsd1	0	1,08	9,70E-01
Q9JM96	13	4	16,54	56699	Cdc42ep4	0	1,06	9,81E-01
Q9Z1Z0	8	7	12,02	56041	Uso1	0	1,17	8,21E-01
Q8CHX7	12	4	25,76	74013	Rftn2	0	0,76	5,96E-01
P01942	33	3	34,52		Hba	1	0,82	6,42E-01
O35316	10	4	52,69	21366	Slc6a6	0	1,11	9,69E-01
Q8R307	5	4	20,55	228545	Vps18	0	1,10	9,76E-01
P28661	14	5	76,01	18952	Septin4	0	0,84	7,74E-01
Q9JMC3	12	4	25,63	58233	Dnaja4	0	1,01	1,00E+00

P99026	20	4	58,26	19172	Psmb4	0	1,18	7,77E-01
Q9CZJ2	5	4	52,52	72630	Hspa12b	0	1,06	9,76E-01
O35250	9	5	17,04	53413	Exoc7	0	1,37	6,72E-01
Q61616	12	4	14,81	13488	Drd1	0	0,85	7,78E-01
Q9D023	32	5	30,69	70456	Mpc2	0	0,85	7,38E-01
Q61335	22	5	35,35	27061	Bcap31	0	1,09	9,56E-01
P97411	12	5	12,98	15893	Ica1	0	1,05	9,78E-01
B9EJ86	14	8	8,17	237542	Osbpl8	0	1,08	9,76E-01
Q3URD3	9	7	9,37	83997	Slmap	0	0,81	7,20E-01
P97765	17	5	46,42	22378	Wbp2	0	1,35	3,54E-01
P70302	8	5	22,58	20866	Stim1	0	1,07	9,76E-01
O35304	8	4	30,38		Slc18a3	0	1,13	9,56E-01
P55264	17	6	17,96	11534	Adk	0	0,77	4,12E-01
Q9CZ30	14	5	32,29	67059	Ola1	0	0,96	9,74E-01
Q9CPU0	35	8	67,16	109801	Glo1	0	0,97	9,76E-01
G3X9C2	9	3	53,82	233038	Nccrp1	0	1,08	9,74E-01
Q9WVQ1	6	5	11,49	50791	Magi2	0	1,05	9,85E-01
P60122	23	7	14,61	56505	Ruvbl1	0	1,22	8,53E-01
Q61016	63	5	43,59		Gng7	0	0,82	6,22E-01
P24288	15	6	47,4	12035	Bcat1	0	1,47	1,32E-01
Q9D1E6	26	6	27,93	66411	Tbcb	0	1,14	8,80E-01
Q8BHE8	20	5	29,64	68115	Maip1	0	0,92	9,33E-01
O70251	16	3	26,03	55949	Eef1b	0	0,81	7,50E-01
Q0GA42	8	5	4	83674	Cnm1	2	1,38	4,87E-01
HBB_HUMAN	36	4	53,96			1	1,35	4,83E-01
O55100	15	3	122,47	20972	Syngr1	0	1,10	9,34E-01
KRHB2_HUMAN	12	2	13,27			0	0,78	8,50E-01
P62774	33	3	23,99	14489	Mtpn	0	1,13	9,13E-01
Q6A4J8	6	6	15,33	252870	Usp7	0	0,93	9,64E-01
O35350	9	6	7,37	12333	Capn1	0	0,84	8,78E-01
Q3TDN2	16	5	13,92	76577	Faf2	0	0,90	9,00E-01
Q64674	21	6	25,56	20810	Srm	0	0,84	7,33E-01
P58321	27	4	8,34	93841	Uchl4	0	0,94	9,76E-01
Q9D387	11	3	60,25	76161	Lamp5	0	1,03	9,96E-01
Q9JKL5	28	5	11,56	57816	Tesc	0	0,85	8,95E-01
Q8BL86	27	7	21,69	72852	Mblac2	0	1,30	5,10E-01
Q9DC61	12	6	17,02	66865	Pmpca	0	0,85	8,56E-01
Q8CH72	10	5	27,61	69807	Trim32	0	1,04	9,85E-01
Q99M71	16	3	26,62	105298	Epdr1	0	0,56	2,87E-02
P60755	8	6	3,88	320772	Mdga2	0	1,00	9,87E-01
P52189	11	4	7,25		Kcnj4	0	1,20	7,41E-01
Q91XY4	6	4	23,94	93712	Pcdhga4	0	1,33	3,99E-01
Q8R050	8	6	30,61	14852	Gspt1	0	1,23	7,61E-01
Q6PNC0	3	7	5,77	240283	Dmxl1	0	1,08	9,76E-01
Q9DCM2	19	3	17,12	76263	Gstk1	0	0,52	1,21E-01
Q8K4Q0	5	5	20,92		Rptor	0	1,26	8,85E-01

Q9QZB1	23	4	34,51	58175	Rgs20	1	0,95	9,61E-01
Q9D7A8	13	5	37,88	74252	Armc1	0	1,00	9,87E-01
Q61037	6	8	0		Tsc2	0	0,85	9,02E-01
Q9JL8	16	5	6,43	71984	Sars2	0	1,10	9,76E-01
O70228	5	5	17,6	11981	Atp9a	0	1,05	9,87E-01
Q8JZN7	8	2	33,46	214952	Rhot2	0	0,59	4,27E-01
Q99LB6	18	4	21,24	108645	Mat2b	0	1,00	9,96E-01
P55096	13	6	5,68	19299	Abcd3	0	1,13	9,28E-01
Q68FD9	6	8	8,7	330286	Kiaa1549	0	0,83	8,70E-01
Q8BP92	8	4	30,02	26611	Rcn2	0	0,47	4,61E-02
Q3UHB8	6	4	11,55	380768	Ccdc177	0	1,12	9,74E-01
Q62348	20	4	18,12	22099	Tsn	0	1,25	8,69E-01
Q9D2M8	25	4	77,33	70620	Ube2v2	0	1,06	9,74E-01
Q9ESN4	16	3	25,38	227580	C1ql3	0	1,01	1,00E+00
A6H5Z3	7	5	32,48	75914	Exoc6b	0	1,05	9,81E-01
Q8BFP9	13	4	25,73	228026	Pdk1	1	0,80	7,38E-01
Q7M729	14	4	47,77	399548	Scn4b	0	0,98	9,78E-01
Q8BG92	14	2	39,09	215890	Clvs2	0	0,76	7,90E-01
Q8CGA0	11	4	16,97	68606	Ppm1f	0	1,05	9,81E-01
P53811	22	2	33,48	56305	Pitpnb	0	0,65	6,13E-01
Q9CPV9	15	5	25,78	70839	P2ry12	0	0,40	1,45E-06
Q9QYI5	16	5	31,5	56812	Dnajb2	0	1,30	6,95E-01
Q3UHD1	5	7	5,1	107831	Adgrb1	0	0,85	7,52E-01
P49813	17	5	12,87	21916	Tmod1	0	0,76	7,49E-01
P97384	12	5	27,38	11744	Anxa11	0	0,77	6,64E-01
P61750	16	2	50,65	11843	Arf4	0	0,92	9,64E-01
Q8R1S0	13	6	20,13	217707	Coq6	0	0,50	4,72E-03
Q3UPL0	6	6	16,8	69162	Sec31a	0	1,10	9,64E-01
CYC_HORSE	26	5	26,96		CYCS	0	0,83	6,29E-01
Q9CZR8	14	2	33,31	66399	Tsfm	0	0,72	6,44E-01
Q5GH67	7	3	51,28	497097	Xkr4	0	1,60	1,50E-01
A2AWA9	6	5	11,51	227800	Rabgap1	0	1,42	6,09E-01
P10107	20	6	29,08	16952	Anxa1	0	1,20	7,49E-01
Q8BH57	11	6	14,4	67561	Wdr48	0	1,16	8,43E-01
Q61820	22	5	68,56	19428	Rasl2-9	0	1,05	9,78E-01
O08530	9	3	36,98	13609	S1pr1	0	0,97	9,81E-01
Q64442	17	6	14,2	20322	Sord	0	1,06	9,76E-01
P15626	16	2	80,47	14863	Gstm2	0	1,17	8,21E-01
Q91Z53	15	5	56,39	76238	Grhpr	0	1,13	9,02E-01
O08579	22	4	33,6	13726	Emd	0	1,35	6,23E-01
Q8CHK3	8	3	15,91	77582	Mboat7	0	0,99	9,85E-01
Q9CQR6	14	4	33,01	67857	Ppp6c	0	1,04	9,89E-01
Q9D3D9	14	2	72,52	66043	Atp5fld	0	0,85	7,52E-01
Q60780	14	5	6,18		Gas7	0	1,13	9,19E-01
Q6PF93	7	5	15,02	225326	Pik3c3	0	1,03	9,96E-01
Q5EBJ4	23	4	17,36	77767	Ermn	0	0,85	8,94E-01

Q05186	15	4	15,5	19672	Rcn1	0	0,87	8,91E-01
Q91Z61	22	4	24,48	208666	Diras1	0	1,05	9,76E-01
Q9WUL7	26	4	22,05	56350	Arl3	0	1,27	7,42E-01
Q9CX00	15	6	28,63	71955	Ist1	0	0,92	9,07E-01
B2RXS4	4	5	30,88	140570	Plxnb2	0	0,81	8,40E-01
P63143	13	3	38,48	16497	Kcnab1	0	1,17	9,56E-01
O88531	18	4	11,72	19063	Ppt1	0	0,83	7,93E-01
O35544	4	2	23,03	20513	Slc1a6	0	0,91	9,00E-01
Q91W89	8	7	14,69	73744	Man2c1	0	0,92	9,68E-01
Q5SV85	4	3	15,72	217030	Synrg	0	0,93	9,76E-01
Q9ERR1	14	4	37,32	83431	Ndel1	0	1,01	1,00E+00
Q6PDS3	8	5	17,92	237868	Sarm1	0	1,03	9,97E-01
Q61176	9	3	53,1	11846	Arg1	0	1,07	9,74E-01
P23927	31	5	21,04	12955	Cryab	0	0,76	7,49E-01
Q9JIV5	16	2	12,84	54376	Cacng3	0	1,27	8,86E-01
Q9QYF1	14	4	24,57	17252	Rdh11	0	0,81	8,10E-01
P97494	11	5	14,71	14629	Gelc	0	0,81	7,90E-01
Q8K4X7	16	6	17,24	68262	Agpat4	0	1,38	5,13E-01
P70429	18	5	16,61	14026	Evl	0	0,43	1,05E-02
Q9QXJ1	8	4	13,97	11785	Apbb1	0	1,06	9,81E-01
Q921J2	19	5	20,42	19744	Rheb	0	1,53	9,64E-02
Q8CI32	12	4	18,86	70369	Bag5	0	1,11	9,69E-01
P20152	12	2	82,1	22352	Vim	0	0,95	9,78E-01
P29391	42	5	9,1		Ftl1	0	0,98	9,85E-01
Q9D8B4	21	3	27,5		Ndufa11	0	0,74	6,55E-01
P62908	23	5	32,74	27050	Rps3	0	0,79	7,33E-01
Q3TES0	5	4	11,95	243621	Iqsec3	0	1,11	9,76E-01
Q8VE47	10	3	16,62	66663	Uba5	0	1,08	9,76E-01
P12815	23	4	39,71	18570	Pdcd6	0	0,89	9,17E-01
G3XA57	13	5	10,05	74998	Rab11fip2	0	1,41	6,59E-01
Q61655	11	5	15,54	13680	Ddx19a	0	0,88	9,34E-01
Q4VAE3	22	5	38,48	74868	Tmem65	0	0,98	9,76E-01
Q924M7	8	2	15,8	110119	Mpi	0	0,94	9,76E-01
Q99LD8	26	5	18,75	51793	Ddah2	0	0,83	7,81E-01
Q9CXW2	15	5	11,68	64655	Mrps22	0	0,76	7,42E-01
P34884	24	3	66,22	17319	Mif	0	0,92	9,12E-01
Q3THE2	24	4	27,65	67938	Myl12b	0	1,04	9,89E-01
Q5RJI5	7	3	19,63	381979	Brsk1	0	0,94	9,76E-01
Q8BXZ1	11	5	22,78	67988	Tmx3	0	0,79	4,92E-01
Q9R1P1	18	3	19,91	26446	Psmb3	0	1,06	9,76E-01
Q9ER88	16	5	8,22	65111	Dap3	0	0,60	2,63E-01
O88456	19	3	19,04	12336	Capns1	2	0,88	8,54E-01
Q6ZQI3	14	4	29,73	109154	Mlec	0	1,19	8,70E-01
Q9R0D8	23	5	8,35	75659	Wdr54	0	1,05	9,96E-01
Q3URS9	13	4	7,03	66658	Ccdc51	0	0,90	9,56E-01
Q8BI08	18	2	52,32	105853	Mal2	0	1,08	9,59E-01

Q8BZ81	10	4	17,42	216028	Lrrtm3	1	0,98	9,78E-01
Q9Z0N1	9	3	13,62	26905	Eif2s3x	0	1,95	2,86E-01
Q9CQ69	37	3	49,23	22272	Uqcrq	0	0,91	9,05E-01
P53986	12	4	40,79	20501	Slc16a1	0	1,12	9,21E-01
Q6PAR5	5	7	1,89	66691	Gapvd1	0	1,05	9,76E-01
O35226	14	3	20,11	19185	Psmd4	0	1,05	9,96E-01
P32211	11	2	22,81	12672	Chrm4	0	0,72	3,52E-01
Q60771	11	2	8,91	18417	Cldn11	0	1,03	9,94E-01
Q8R2Y0	15	4	18,79	66082	Abhd6	0	1,01	1,00E+00
O55033	14	4	12,74	17974	Nck2	1	0,99	9,87E-01
Q80U49	5	4	1,84	217882	Cep170b	0	1,55	5,86E-01
Q99LP6	22	4	17,31	17713	Grpel1	0	0,69	5,00E-01
O08919	9	3	42,54	18223	Numbl	1	0,79	5,56E-01
Q9D6Y9	8	5	32,89	74185	Gbe1	0	1,61	1,08E-01
Q9DCS3	12	5	5,21	26922	Mecr	0	1,08	9,74E-01
Q9D4J1	9	2	21,03	98363	Efhd1	0	0,79	4,86E-01
P58774	12	5	38,6	22004	Tpm2	0	1,83	1,83E-03
Q9R0Q7	19	4	31,53	56351	Ptges3	0	0,89	8,78E-01
Q149F3	7	5	21,01	14853	Gspt2	0	0,94	9,74E-01
Q3TYD6	5	6	5,16	231876	Lmtk2	0	1,08	9,76E-01
Q9JM14	22	3	24,55	50773	Nt5c	0	1,24	9,03E-01
Q60673	4	2	16,11		Ptpn	0	1,07	9,76E-01
O54984	16	5	38,26	56495	Get3	0	1,22	7,20E-01
P50136	10	3	21,33		Bckdha	0	0,54	8,64E-02
P10605	15	4	14,28	13030	Ctsb	0	0,54	5,41E-02
Q8BWG8	13	5	15,56	109689	Arrb1	0	1,09	9,70E-01
P70202	18	3	67,79	17035	Lxn	0	0,84	7,09E-01
Q9QUR8	6	3	13,08	20361	Sema7a	0	1,24	9,02E-01
Q3V0K9	6	2	35,55	102502	Pls1	0	0,91	9,18E-01
Q63836	14	6	6,89	20342	Selenbp2	0	0,73	1,89E-01
P17563	14	6	6,89	20341	Selenbp1	0	0,73	1,89E-01
Q8BNY6	23	4	27,6	14299	Ncs1	0	0,85	6,94E-01
Q9CXR1	15	5	23,68	66375	Dhrs7	0	1,11	9,40E-01
Q9CQF9	10	3	25,9	66881	Pcyox1	0	1,19	9,25E-01
Q9D0S9	34	4	34,72	68917	Hint2	0	0,82	8,11E-01
Q8BG67	6	3	36,85	76740	Efr3a	0	0,83	9,13E-01
Q8C561	7	4	19,53	320506	Lmbrd2	0	1,12	9,62E-01
P22315	15	5	11,78		Fech	0	0,66	1,88E-01
P57716	7	5	19,62	59287	Nestn	0	0,70	4,20E-01
Q9Z2Z6	16	5	42,76	57279	Slc25a20	0	0,95	9,56E-01
P49722	17	3	39,65	19166	Psma2	0	1,01	1,00E+00
P53612	12	4	22,13	19352	Rabggtb	0	0,94	9,56E-01
Q8K4L4	9	5	7,34	69693	Pof1b	0	2,39	1,19E-02
P04627	9	3	30,97	11836	Araf	0	0,81	8,07E-01
Q6P069	23	5	27,86	109552	Sri	0	1,26	6,12E-01
Q9DBL7	12	5	27,03	71743	Coasy	0	0,94	9,74E-01
P61087	24	4	5,99	53323	Ube2k	0	0,89	9,42E-01

P35288	19	4	23,11		Rab23	0	1,13	9,12E-01
Q99KP3	12	3	15,66	68631	Cryl1	0	0,93	9,76E-01
Q8VED9	25	4	53,61	216551	Lgalsl	0	1,21	7,33E-01
Q9WUD1	15	4	17,07	56424	Stub1	0	0,81	8,45E-01
Q9WU65	9	4	26,54	14626	Gk2	0	0,86	7,74E-01
Q9Z2A0	12	5	4,19	18607	Pdpk1	0	1,13	9,56E-01
Q9D1X0	18	3	4,14	78688	Nol3	0	1,69	5,99E-01
Q62167	8	5	11,47	13205	Ddx3x	0	1,06	9,87E-01
P16381	8	5	11,47	110957	D1Pas1	0	1,06	9,87E-01
Q9CQC9	21	4	24,77	66397	Sar1b	0	1,14	9,02E-01
Q8VBW6	8	4	29,84	234664	Nae1	0	1,07	9,78E-01
Q9Z2I8	12	4	15,6	20917	Suclg2	0	0,74	6,94E-01
Q9D0R2	9	5	13,26	110960	Tars1	1	0,85	8,50E-01
P70227	2	6	1,68	16440	Itpr3	0	1,13	9,34E-01
Q60996	10	3	16,57	26931	Ppp2r5c	0	0,95	9,76E-01
Q8CAK1	10	3	21,89	216792	Iba57	0	0,58	2,16E-01
P58242	12	4	18,24	100340	Smpdl3b	0	0,84	8,72E-01
Q9Z0H8	5	5	7,1	269713	Clip2	0	1,23	9,12E-01
Q99M87	8	3	18,89	83945	Dnaja3	0	0,93	9,72E-01
P11438	6	2	34,23	16783	Lamp1	0	0,79	5,01E-01
O55026	10	4	31,82	12496	Entpd2	0	0,88	8,57E-01
Q8VD26	12	3	13,83	70209	Tmem143	0	0,95	9,76E-01
Q9EQQ9	6	5	3,27	76055	Oga	0	1,70	1,18E-01
Q8CBH5	10	5	5,69	98682	Mfsd6	0	2,25	5,92E-02
P26883	26	2	51,9	14225	Fkbp1a	0	0,98	9,76E-01
Q3UUQ7	5	5	10,03	241062	Pgap1	0	0,93	9,66E-01
P20060	9	4	18,12	15212	Hexb	0	0,64	5,56E-02
Q9QZ88	23	4	42,54	56433	Vps29	0	1,20	7,89E-01
Q8BM13	11	5	22,67	244723	Olfm2	0	0,88	8,64E-01
Q64737	7	6	13,79	14450	Gart	0	1,24	7,51E-01
Q6P8J7	6	2	25,74	76722	Ckmt2	0	0,68	8,19E-02
Q3TIR3	11	4	9,13	101489	Ric8a	0	0,84	9,25E-01
Q9CXT8	10	4	50,99	73078	Pmpcb	0	0,72	6,13E-01
Q8R3P0	12	3	6,23	11484	Aspa	0	0,66	4,00E-01
Q91Z67	4	4	27,23	14270	Srgap2	0	1,01	1,00E+00
Q91XU3	9	3	21,4	117150	Pip4k2c	0	1,15	9,70E-01
Q9QZI8	5	2	28,45	56442	Serinc1	0	0,65	3,83E-01
Q9CQ75	30	3	17,51	17991	Ndufa2	0	1,24	7,52E-01
B2RQC6	4	7	1,78	69719	Cad	0	1,31	8,10E-01
P70195	19	5	41,48	19177	Psmb7	0	0,81	6,23E-01
Q99MR3	7	5	7,52	83704	Slc12a9	0	0,93	9,74E-01
Q6ZQK5	7	4	7,43	78618	Acap2	0	0,55	3,33E-01
A2APV2	7	6	1,64	71409	Fmnl2	0	0,99	9,96E-01
Q60738	11	4	31,41	22782	Slc30a1	0	0,98	9,87E-01
Q99KQ4	11	4	5,82	59027	Nampt	0	1,33	8,10E-01
Q8BGN8	10	3	13,9	72003	Synpr	0	0,79	5,77E-01
P54923	20	5	4,02	11544	Adprh	0	1,28	8,53E-01

Q9QZ08	17	5	19,86	56174	Nagk	0	1,32	5,82E-01
Q8VBT0	12	4	25,13	72736	Tmx1	0	1,07	9,85E-01
Q8R555	9	5	9,61	72832	Crtac1	0	1,02	9,94E-01
Q8BK08	23	4	28,45	216821	Tmem11	0	0,98	9,76E-01
Q3TC33	15	4	33,78	67433	Ccdc127	0	0,85	7,42E-01
Q8K0D5	7	5	16,3	28030	Gfm1	0	0,63	1,50E-01
Q9EQ06	14	5	16,54	114664	Hsd17b11	0	0,86	8,82E-01
P46935	7	4	14,58	17999	Nedd4	0	1,43	7,10E-01
Q9QZB7	13	5	18,88	56444	Actr10	0	1,07	9,74E-01
Q8BMS4	9	2	15,97	230027	Coq3	0	0,50	1,24E-01
Q8BHW2	13	5	15,31	230751	Oscp1	0	0,90	9,32E-01
P51855	12	5	19,99	14854	Gss	0	1,00	9,97E-01
Q99J09	15	4	13,06	70465	Wdr77	0	1,05	9,85E-01
Q9QZD8	20	5	13,02	27376	Slc25a10	0	0,92	9,53E-01
O55013	23	5	26,77	27096	Trappc3	0	1,48	2,33E-01
Q9R0N0	14	5	13,91	14635	Galk1	0	1,01	1,00E+00
Q8VE70	24	6	21,05	56426	Pdcd10	0	0,80	5,42E-01
O55017	2	5	11,04	12287	Cacna1b	0	1,26	7,77E-01
Q8R4N0	15	4	12,48	69634	Clybl	0	1,32	7,77E-01
Q99J83	12	3	18,25	11793	Atg5	0	1,08	9,76E-01
Q80XK6	3	6	1,74	76559	Atg2b	0	1,01	9,94E-01
Q9D6P8	25	4	42,87	70405	Calml3	0	0,99	9,77E-01
Q9CX56	14	6	18,09	57296	Psmd8	0	1,03	9,85E-01
Q9CZW4	8	4	10,91	74205	Acsl3	0	1,27	8,44E-01
Q8BMF3	8	5	24,72	109264	Me3	1	0,97	9,76E-01
Q8BZN6	3	6	1,67	210293	Dock10	0	0,87	9,47E-01
Q3TY86	8	5	14,89	72168	Aifm3	0	1,06	9,78E-01
Q8BFY9	6	2	7,5	238799	Tnpo1	2	0,85	9,32E-01
Q9R0M0	2	6	1,89	53883	Celsr2	0	0,65	4,52E-01
P42567	8	5	2	13858	Eps15	0	1,26	8,50E-01
Q8BHK2	29	4	27,09	235281	Scn3b	0	1,44	4,49E-01
P63115	8	2	13,84	53896	Slc7a10	0	0,71	6,42E-01
Q9JKV1	11	4	24,19	56436	Adrm1	0	1,16	8,88E-01
LYSC_HUMAN	18	3	34,57	100970 943; 4069; 450190	LYZ	0	1,50	7,84E-02
Q8BGD9	7	4	5,13	75705	Eif4b	0	1,19	9,16E-01
Q99KK9	10	2	43,13	70791	Hars2	0	0,01	1,60E-16
Q922P8	7	5	12,88	98170	Tmem132a	0	0,96	9,76E-01
Q8VD33	13	3	27,35	218544	Sgtb	0	1,20	9,16E-01
Q60605	30	4	9,41	17904	Myl6	0	0,97	9,76E-01
Q8C0L0	13	3	30,43	52837	Tmx4	0	0,96	9,76E-01
P00397	4	2	33,66	17708	Mtco1	0	1,43	2,03E-01
Q3TC72	16	6	33,13	68126	Fahd2	0	0,81	6,58E-01
Q8R164	14	4	22	68021	Bphl	0	0,77	6,07E-01
Q9CRD2	12	3	19,99	66736	Emc2	0	0,80	8,21E-01

P06801	8	4	10,76	17436	Me1	0	1,02	1,00E+00
O88983	22	5	5,96	55943	Stx8	0	0,86	7,77E-01
Q99LY9	49	5	15,91	595136	Ndufs5	0	0,72	1,88E-01
Q80TY0	7	5	9,72	14269	Fnbp1	0	1,10	9,70E-01
Q66JS6	16	4	16,52	100042807	Eif3j2	0	0,96	9,76E-01
Q3UGC7	16	4	16,52	78655	Eif3j1	0	0,96	9,76E-01
Q8WTY4	16	3	9,03	109006	Ciapi1	0	1,37	7,77E-01
Q91V64	12	3	17,45	66307	Isoc1	0	1,56	5,58E-01
Q9CZ04	14	3	9,11	26894	Cops7a	0	1,47	6,06E-01
Q9EPW0	5	5	9,14	269180	Inpp4a	0	0,97	9,76E-01
Q60692	13	3	72,96	19175	Psmb6	0	1,28	5,13E-01
Q9D358	24	3	41,47	11431	Acp1	0	1,20	7,61E-01
Q9D3D0	15	4	10,13	76080	Ttpal	0	1,26	8,60E-01
Q8R5H1	4	3	24,06	14479	Usp15	0	1,12	9,76E-01
O88507	6	2	34,78	12804	Cntfr	0	0,86	8,10E-01
Q8BFU3	9	4	16,2	235315	Rnf214	0	0,87	9,25E-01
P97371	19	5	11,49	19186	Psmc1	0	1,44	5,62E-01
Q5HZI9	21	6	11,56	230125	Slc25a51	0	1,18	9,11E-01
Q9JKC8	10	2	35,86	55946	Ap3m1	0	0,55	4,06E-01
Q8K411	5	4	1,98	69617	Pitrm1	0	0,99	9,91E-01
Q9WTS6	2	4	3,34		Tenm3	0	1,05	9,97E-01
Q7TPD3	5	6	4,97		Robo2	0	1,05	9,78E-01
Q9CPP6	28	3	32,04	68202	Ndufa5	0	0,89	8,91E-01
CASK_BOVIN	21	3	7,52	281728	CSN3	0	0,76	6,23E-01
O35405	6	3	65,4	18807	Pld3	0	0,76	3,50E-01
Q99K70	15	4	5,57	54170	Rragc	0	1,14	8,85E-01
Q8K1N1	9	6	9,72	67452	Pnpla8	0	0,66	3,84E-01
Q8BT60	11	3	27,29	70568	Cpne3	0	2,11	2,01E-01
Q505D7	20	2	28,56	403187	Opa3	1	0,85	7,79E-01
Q03141	6	2	15,12	17169	Mark3	0	1,04	9,91E-01
Q69ZH9	6	5	9,91	58996	Arhgap23	1	1,12	9,74E-01
Q8VCX5	10	4	14,31	216001	Micu1	0	0,51	4,45E-02
P55821	21	2	52,3	20257	Stmn2	0	1,50	5,79E-01
Q9CR67	13	3	37,01	67878	Tmem33	0	1,35	3,83E-01
Q9QZ23	20	4	19,76	56748	Nful	0	0,86	8,86E-01
Q9D1H7	10	3	15,32	67604	Get4	0	0,00	1,60E-16
Q78IK2	47	3	11,38	66477	Atp5md	0	0,78	3,87E-01
Q9Z1T1	4	6	31,76	11774	Ap3b1	0	0,98	9,76E-01
Q6PA06	8	3	10,7	56298	Atl2	0	0,81	7,71E-01
Q8BSZ2	21	4	4,28	11778	Ap3s2	0	1,15	8,77E-01
O35593	16	4	33,14	59029	Psmd14	0	1,03	9,99E-01
Q3UU96	3	2	10,03	226751	Cdc42bpa	0	0,93	9,76E-01
O89051	14	3	31,08	16432	Itm2b	0	0,82	6,70E-01
B2RXC1	4	4	6,36	320714	Trappc11	0	1,19	8,91E-01
Q922J3	4	5	0	56430	Clip1	0	1,30	8,24E-01
Q9EPK2	11	4	21,51	19889	Rp2	0	0,98	9,79E-01



P02089	21	2	70,19	15130	Hbb-b2	0	1,10	9,56E-01
P49446	7	4	20,16	19267	Ptpre	0	0,83	6,94E-01
P24472	22	5	42,65	14860	Gsta4	0	0,99	9,76E-01
Q99KW9	8	4	19,96	71927	Itfg1	0	1,32	6,98E-01
O08989	29	5	5,64	17532	Mras	0	1,18	8,59E-01
Q9CRY7	14	4	14,61	66569	Gdpd1	0	1,51	3,12E-01
Q9JKF6	8	3	21,05	58235	Nectin1	0	0,88	9,02E-01
Q8BWM0	10	3	16,23	96979	Ptges2	0	1,10	9,76E-01
P97772	4	5	5,01	14816	Grm1	0	0,84	8,25E-01
Q8BH58	18	4	13,79	226591	Tipr1	0	0,92	9,56E-01
Q9WTM5	9	4	21,96	20174	Ruvbl2	0	1,19	8,25E-01
Q9CQT1	11	3	25,27	67873	Mri1	0	1,53	5,91E-01
Q80TA1	5	2	13,65	28042	Selenoi	0	0,83	9,05E-01
Q9JIV4	17	5	6,85	54377	Cacng4	0	1,04	9,78E-01
Q9DCJ1	13	3	13,78	56716	Mlst8	0	1,13	9,64E-01
Q922R1	10	4	7,66			0	1,67	2,64E-01
O08759	6	4	21,53	22215	Ube3a	0	1,16	9,40E-01
Q9CQ22	22	3	18,53	66508	Lamtor1	0	0,80	7,52E-01
P63242	25	5	9,83	276770	Eif5a	0	0,90	9,29E-01
Q60803	8	4	8,91	22031	Traf3	0	0,94	9,76E-01
Q8BHK1	14	3	6,62	233280	Nipa1	0	0,92	9,76E-01
Q61205	17	3	15,03	18476	Pafah1b3	0	1,23	8,21E-01
Q9JHU9	10	5	10,15	71780	Isyna1	0	1,38	6,15E-01
Q58A65	3	4	23,5	70834	Spag9	0	1,17	8,76E-01
Q05816	30	5	27,21	16592	Fabp5	0	0,90	8,88E-01
P28867	5	3	22,66	18753	Prkcd	0	0,72	6,61E-01
Q99PS0	7	2	27,69	94179	Krt23	0	1,76	7,67E-02
AMYS_H UMAN	7	3	8,31	276; 277; 278	AMY1A; AMY1B; AMY1C	0	1,67	3,99E-01
Q921Q7	7	4	9,06	225870	Rin1	0	1,09	9,78E-01
P17809	9	4	26,56	20525	Slc2a1	0	0,74	3,90E-01
Q64704	14	4	3,24	20908	Stx3	0	1,41	7,33E-01
CAH2_HU MAN	11	2	4,95			0	28,98	1,60E-16
Q52KR3	2	4	21,96	353211	Prune2	0	1,22	8,70E-01
Q9WVA4	11	2	64,29	21346	Tagln2	0	2,01	7,01E-05
P59823	7	4	9,9		Il1rap11	0	0,78	8,42E-01
Q9WUR2	10	3	15,29	23986	Eci2	0	0,86	9,16E-01
Q62095	6	4	9,36	26900	Ddx3y	0	0,95	9,76E-01
FABPH_H UMAN	30	4	42,69			0	1,13	8,76E-01
P63073	20	4	1,71	13684	Eif4e	0	1,05	9,88E-01
P47941	17	3	3,6	12929	Crkl	0	1,02	1,00E+00
Q9R0H0	6	3	19,38	11430	Acox1	0	0,85	8,91E-01
P70670	1	2	5,93	17938	Naca	0	1,85	4,83E-01
Q60817	13	2	5,93	17938	Naca	0	1,85	4,83E-01
P62331	27	3	16,42	11845	Arf6	1	1,25	7,80E-01

Q8BGD5	5	3	2,5	78070	Cpt1c	0	1,10	9,76E-01
Q9D6Y7	26	5	15,81	110265	Msra	0	1,36	5,97E-01
Q9D7X8	21	4	5,57	110175	Ggct	0	0,98	9,91E-01
Q8VHI6	7	3	19,89	245880	Wasf3	0	1,24	7,86E-01
Q8BG02	6	2	41,31	269643	Ppp2r2c	0	0,87	7,62E-01
A2AHG0	6	4	10,41	241638	Lzts3	0	1,55	3,95E-01
Q9CYR6	8	4	15,38	109785	Pgm3	0	0,91	9,61E-01
Q99J08	13	5	3,53	67815	Sec14l2	0	1,14	9,21E-01
Q921H9	14	3	22,24	69893	Coa7	0	1,02	1,00E+00
Q8BK72	10	4	11,47	218506	Mrps27	0	0,53	1,37E-01
P61967	16	2	18,95	11769	Ap1s1	0	1,41	8,07E-01
Q8R0W0	2	2	9,75	223650	Eppk1	0	1000,00	1,60E-16
P51655	9	3	1,92	14735	Gpc4	1	1,13	9,69E-01
Q922D4	5	3	6,29	52036	Ppp6r3	0	1,08	9,78E-01
A2BDX3	10	3	5,12	69372	Mocs3	0	0,99	9,85E-01
Q9CQJ6	26	4	13,33	68184	Denr	0	1,01	1,00E+00
Q9DC16	14	4	16,83	67458	Ergic1	0	0,72	3,33E-01
Q9DD18	15	2	13,46	66044	Dtd1	0	2,06	1,28E-01
O08688	10	5	0	12337	Capn5	0	1,19	8,70E-01
Q5XJV6	4	5	0	381983	Lmtk3	0	0,77	8,34E-01
Q640M6	6	3	7,27	233552	Gdpd5	0	0,64	4,15E-01
O88704	6	3	0	15165	Hcn1	2	0,66	4,69E-01
P97798	4	5	9,02		Neol	0	1,07	9,91E-01
Q9DCC4	11	2	25,74	66194	Pycr3	0	0,77	6,32E-01
Q9D1Q6	12	3	5,62	76299	Erp44	0	0,82	8,54E-01
Q3UGR5	15	4	29,15	76987	Hdhd2	0	0,92	9,34E-01
O54950	12	2	24,51	19082	Prkag1	0	1,02	1,00E+00
Q9D164	27	2	25,19	59095	Fxyd6	0	1,98	2,91E-01
A2ALU4	4	4	5,38	110380	Shroom2	0	0,92	9,71E-01
P70232	7	6	5,62	12661	Chl1	0	1,13	9,67E-01
Q59J78	27	4	2,3	75597	Ndufaf2	0	0,73	6,09E-01
P67871	13	3	29,02	13001	Csnk2b	0	1,27	6,23E-01
Q6DFV3	3	4	9,91	71435	Arhgap21	0	1,19	9,39E-01
Q9CQZ6	18	3	51,03	66495	Ndufb3	0	1,97	2,99E-04
Q62351	6	4	2,51	22042	Tfrc	0	1,15	9,74E-01
Q811I0	13	4	15,02		Atpaf1	0	0,96	9,76E-01
Q80XG9	6	3	26,88	243499	Lrrtm4	0	0,88	9,34E-01
Q8BGY9	7	4	23,61	63993	Slc5a7	0	0,90	9,34E-01
Q9JIG8	22	3	32,01	54637	Praf2	0	1,24	6,93E-01
Q8K3G9	7	3	5,67	216190	Appl2	0	0,68	6,58E-01
O35083	18	4	19,33	55979	Agpat1	0	0,85	8,93E-01
Q8K3P0	11	4	7,98	70061	Sdr9c7	0	1,22	8,85E-01
Q91XL9	4	2	27	64291	Osbpl1a	1	1,04	9,85E-01
Q9ESE1	1	4	9,26	80877	Lrba	0	1,16	9,34E-01
Q3KNM2	10	2	21,19	69104	Marchf5	0	1,10	9,76E-01
P97952	19	4	7,88	20266	Scn1b	0	1,25	8,42E-01

OVAL_CH ICK	9	2	24,71	396058	OVA; SERPINB 14	0	0,31	2,63E-04
Q6PDY2	10	2	29,52	211488	Ado	0	0,55	3,26E-01
Q9D6K5	23	3	33,36	105940 408; 24071	Synj2bp	0	0,94	9,74E-01
P97823	14	3	16,79	18777	Lypla1	0	1,62	4,21E-02
O08842	7	3	16,42	14586	Gfra2	0	0,94	9,74E-01
Q8BMI3	9	5	0	260302	Gga3	0	1,42	6,61E-01
P62192	8	2	17,35	19179	Psmc1	0	0,27	2,51E-03
Q9Z2D0	8	5	9,11	210376	Mtmr9	0	0,90	9,56E-01
Q9WVG6	7	4	13,28	59035	Carm1	0	1,07	9,79E-01
Q922E4	11	4	7,43	68671	Pcyt2	0	1,32	7,49E-01
Q8BG18	6	2	10,78	69352	Necab1	0	0,73	7,77E-01
Q91WG5	7	3	14,83	108099	Prkag2	1	0,96	9,76E-01
Q9JIY5	8	3	5,47	64704	Htra2	0	0,68	6,27E-01
Q99KV1	14	3	6,22	67838	Dnajb11	0	1,27	8,70E-01
Q8BGN3	8	4	9,94	320981	Enpp6	0	0,97	9,78E-01
Q9CPW4	21	2	29,31	67771	Arpc5	0	0,81	7,52E-01
Q8VHL1	11	3	19,88	73251	Setd7	0	0,78	7,18E-01
P97467	6	6	8,66	18484	Pam	0	1,20	8,85E-01
Q8K377	6	3	13,95	74342	Lrrtm1	0	0,98	9,85E-01
Q9DBL1	10	5	13,08	66885	Acadsb	0	0,63	4,21E-02
D3YZU1	3	3	10,61	243961	Shank1	0	0,95	9,77E-01
Q8R1I1	38	2	22,72	66152	Uqcr10	0	1,12	9,47E-01
Q8BGC4	10	3	10,41	225791	Zadh2	0	0,76	7,28E-01
P68040	14	4	8,16	14694	Rack1	0	0,83	8,57E-01
Q5DU41	4	3	6,15	433926	Lrrc8b	0	1,31	8,07E-01
Q60870	10	2	31,79		Reep5	0	1,26	6,42E-01
P62869	47	4	17,55	67673	Elob	0	1,33	5,89E-01
Q8K0C9	11	3	15,08	218138	Gmds	0	1,05	9,83E-01
Q8BIK4	3	5	3,25		Dock9	0	1,08	9,79E-01
Q3UVK0	5	4	2,13	226090	Ermp1	0	0,83	9,17E-01
B1AS29	5	3	1,66	14807	Grik3	0	1,46	6,63E-01
Q8CI78	9	4	7,48	66084	Rmnd1	0	0,91	9,56E-01
Q8R4G0	6	4	18,92	80883	Ntng1	0	1,00	9,96E-01
Q8BGR6	15	3	21,56	218639	Arl15	0	0,92	9,56E-01
Q9ERL9	7	4	6,3	60596	Gucyl1a1	0	0,76	7,51E-01
O70166	16	4	28,55	20262	Stmn3	0	1,14	9,12E-01
Q8BGY7	12	3	34,11	108654	Fam210a	0	0,85	7,86E-01
Q3V038	17	3	16,27	69480	Ttc9	0	0,91	9,59E-01
Q8BWW3	9	4	6,42	225363	Etf1	0	0,65	3,57E-01
Q9D2Q8	21	2	19	66166	S100a14	0	1,44	2,26E-01
Q5HZI2	13	4	3,85	237397	C2cd4c	0	1,13	9,56E-01
Q8CGC7	3	4	1,99	107508	Eprs1	0	0,81	8,97E-01
P60521	28	4	21,39	93739	Gabarapl 2	0	0,99	9,85E-01

Q7TNF0	7	2	14,16	13446	Doc2a	0	1,29	8,52E-01
B1AY13	2	4	2,46	329908	Usp24	0	0,95	9,76E-01
Q62059	1	3	8,06		Vcan	0	1,83	1,88E-01
Q8CG76	10	3	22,52	110198	Akr7a2	0	1,20	9,22E-01
Q8R3B1	7	4	4,55	18799	Plcd1	0	0,56	3,85E-01
Q5SUC9	11	3	14,48	52892	Scol	0	0,93	9,56E-01
O55135	17	2	2,92	16418	Eif6	0	0,00	1,60E-16
Q80WQ2	5	5	10,2	234729	Vac14	0	1,03	9,85E-01
Q91W90	10	4	1,69	105245	Txndc5	0	0,84	9,18E-01
Q9QUG9	4	2	10,54	19395	Rasgrp2	0	0,97	9,78E-01
Q61418	4	2	16,61	12727	Cln4	0	0,80	8,85E-01
Q9JKF7	15	5	3,32	27393	Mrpl39	0	0,65	4,67E-01
Q60759	8	3	19,81	270076	Gcdh	0	1,07	9,76E-01
P51830	4	5	1,87	11515	Adcy9	0	0,85	8,43E-01
Q8R146	8	4	3,28	235606	Apeh	0	0,87	9,23E-01
O55003	18	3	4,47	12176	Bnip3	0	0,65	4,82E-01
Q91W86	6	5	10,63	71732	Vps11	0	0,94	9,74E-01
Q9D6U8	16	2	10,7	70186	Fam162a	0	0,84	8,53E-01
Q8BPM0	3	4	6,1	208846	Daam1	0	1,01	9,99E-01
Q9Z2Y8	15	5	10,88	114863	Plpbp	0	1,08	9,76E-01
P03930	34	2	40,23	17706	Mtstp8	0	1,05	9,87E-01
Q6RHR9	3	3	9,7	14924	Magi1	0	1,10	9,76E-01
Q8K009	3	3	17,08	216188	Aldh1l2	0	0,89	8,70E-01
P32020	7	4	5,49	20280	Scp2	0	0,96	9,76E-01
P61022	16	3	24,33	56398	Chp1	0	1,12	9,61E-01
Q9QZC2	2	3	33,64	54712	Plxnc1	0	0,83	8,78E-01
Q9EPU0	5	5	1,8	19704	Upfl	0	0,81	8,57E-01
P22933	12	4	3,74	14403	Gabrd	0	1,23	8,91E-01
P97461	18	3	16,8	20103	Rps5	0	0,94	9,74E-01
Q8BG40	9	4	2,19	74187	Katnb1	0	1,67	4,27E-01
Q9JM13	7	3	5,6	56715	Rabgef1	0	1,18	9,48E-01
P52825	5	3	6,67	12896	Cpt2	0	0,70	1,11E-01
E9Q4Z2	2	4	1,85	100705	Acacb	0	2,32	3,09E-02
Q3UTH8	6	3	14,15	236915	Arhgef9	0	1,00	9,91E-01
Q8VEJ9	12	5	1,74	116733	Vps4a	0	1,01	1,00E+00
O35607	3	2	11,34	12168	Bmpr2	0	0,91	9,50E-01
Q9CYW4	16	4	19,97	72748	Hdhd3	0	0,59	2,71E-02
Q8BR63	15	3	15	100101 807; 73385	Fam177a 1	0	0,97	9,76E-01
P46978	5	4	1,98	16430	Stt3a	0	1,11	9,33E-01
Q9CXW4	13	2	10,18	67025	Rpl11	0	0,84	8,70E-01
O88602	11	2	21,88	12300	Cacng2	1	0,63	1,36E-01
P10518	12	3	18,35	17025	Alad	0	0,78	7,73E-01
P16283	6	6	0	20536	Slc4a3	0	0,70	6,86E-01
Q99MB7	14	3	10,94	67150	Rnf141	0	1,40	6,97E-01
P38060	11	3	12,77	15356	Hmgcl	0	0,55	1,81E-01

Q61923	6	2	27,94	16494	Kcna6	0	1,19	9,39E-01
Q62132	7	3	7,09	19279	Ptpr	0	1,15	9,54E-01
Q9WV98	39	3	3,67	30056	Timm9	0	1,05	9,84E-01
Q9D6K8	16	3	5,76	67391	Fundc2	0	1,29	8,91E-01
Q80XA6	10	3	6,25	194590	Reps2	1	1,23	8,91E-01
Q8CGQ8	5	3	5,42	238384	Slc24a4	0	0,89	8,85E-01
Q923D2	17	3	4,21	233016	Blvrb	0	0,93	9,72E-01
Q61626	4	3	4,13	14809	Grik5	0	0,79	8,81E-01
Q8R4F1	5	3	5,04	171171	Ntng2	0	0,82	8,56E-01
Q69ZF3	4	3	10,57	230101	Gba2	0	0,86	9,16E-01
Q99LF4	7	3	9,4	28088	Rtcb	0	0,76	7,41E-01
Q9WVL0	11	2	14,28	14874	Gstz1	0	1,20	9,13E-01
Q9CQ19	17	3	8,9	98932	Myl9	0	1,08	9,74E-01
Q8VHQ9	11	5	5,04	329910	Acot11	0	1,24	7,89E-01
Q8VCL2	10	2	14,56	100126 824	Sco2	0	0,78	8,35E-01
Q9CZB0	22	3	8,37	66052	Sdhc	0	0,63	2,65E-01
Q8C9H6	6	3	16,22	320609	Strip2	1	1,28	6,98E-01
Q9JHG6	10	2	14,71	54720	Rcan1	0	0,59	2,86E-01
Q9DBS1	9	3	16,46	74122	Tmem43	0	1,02	9,99E-01
Q8BFQ8	14	3	16,16	213350	Gatd1	0	1,12	9,69E-01
Q6PEB6	16	3	8,59	19070	Mob4	0	0,84	8,41E-01
P35290	17	3	20,9	19336	Rab24	0	1,56	3,64E-01
P56546	7	4	44,82	13017	Ctbp2	0	1,25	6,07E-01
Q8VE88	5	2	13,33	67726	Fam114a 2	0	0,71	6,10E-01
P21995	9	2	12,97	13723	Emb	0	1,08	9,76E-01
Q9WTL7	18	4	27,6	26394	Lypla2	0	1,18	8,17E-01
Q3URE9	4	2	18,34	242384	Lingo2	0	1,98	2,26E-03
Q6P2B1	6	5	5,02	320938	Tnpo3	0	0,81	7,67E-01
Q91V36	8	4	4,95		Nrbp2	0	0,96	9,76E-01
Q8VBY2	6	2	3,02	55984	Camkk1	0	0,00	1,60E-16
Q61425	9	3	13,02	15107	Hadh	0	0,60	2,86E-01
Q8K4Z3	13	3	12,1	246703	Naxe	0	0,96	9,74E-01
Q921E2	16	3	10,46	106572	Rab31	0	0,73	6,59E-01
Q6PDC8	5	2	6,84	213006	Mfsd4a	0	22,23	1,60E-16
Q7TT45	8	3	5,57	52187	Rragd	0	1,14	8,85E-01
Q8BZA9	9	2	8,5	319801	Tigar	0	2,22	5,23E-02
Q3UH93	2	3	28,79	67784	Plxnd1	0	2,27	1,22E-01
Q91W50	5	5	1,69	229663	Csde1	0	0,87	8,17E-01
P47791	5	2	34,09	14782	Gsr	0	0,89	9,16E-01
Q8BXT1	18	3	8,29	67792	Rgs8	0	0,69	6,06E-01
O08586	8	4	10,78	19211	Pten	0	1,35	6,42E-01
O88703	6	2	1,61	15166	Hcn2	0	0,00	1,60E-16
Q8VE62	7	4	10,95	218693	Paip1	0	1,21	8,82E-01
P97492	6	3	22,4	51791	Rgs14	0	0,93	9,74E-01
Q9JL62	12	2	12,2	56356	Gltf	0	0,74	7,90E-01
Q5Y4Y6	5	3	17,95	450219	Gsdma3	0	0,94	9,59E-01

Q9WVP1	7	3	32,03	11768	Ap1m2	0	0,76	5,29E-01
Q3ULF4	4	3	6,68	234847	Spg7	0	0,71	6,42E-01
A2AP18	3	5	3,7	269615	Plch2	0	0,61	1,82E-01
Q06335	7	3	8,88	11804	Aplp2	0	1,42	1,91E-01
Q8BHJ7	6	2	26,29	110886	Gabra5	0	1,17	8,37E-01
O35215	22	2	5,44	13202	Ddt	0	1,27	9,02E-01
Q923L3	1	3	1,63	94109	Csmd1	1	1,47	6,61E-01
Q8R4I7	10	3	7,13	246317	Neto1	0	0,98	9,85E-01
Q9JK42	10	3	9,95	18604	Pdk2	0	1,07	9,76E-01
P69566	4	2	6,22	56705	Ranbp9	0	1,16	9,48E-01
Q9DB27	12	2	9,32	68995	Mcts1	0	1,70	2,12E-01
Q9Z2D1	7	4	5,16	77116	Mtmr2	0	1,25	9,02E-01
P35505	8	3	14,34	14085	Fah	0	0,80	7,99E-01
Q80Y14	17	2	2,89	73046	Glr5	0	0,86	9,45E-01
Q61334	10	2	12,31	12033	Bcap29	0	1,14	9,71E-01
Q6ZQ82	3	2	16,77	71302	Arhgap26	0	1,25	8,85E-01
Q9D428	14	3	8,16	71146	GOLGA7 B	0	1,54	4,13E-01
Q8C1Y8	6	2	20,3	231874	Ccz1	0	0,96	9,76E-01
Q8K0D0	7	2	33,32	237459	Cdk17	1	1,34	8,07E-01
Q04735	8	2	33,32	18555	Cdk16	0	1,34	8,07E-01
Q0VBD0	5	4	5,74	320910	Itgb8	0	1,49	5,91E-01
Q8JZR6	3	2	9,44	59033	Slc4a8	0	0,47	1,55E-01
Q6NXX8	6	3	14,85	11419	Asic1	0	1,07	9,76E-01
Q7TNG5	7	3	8,12	72205	Eml2	0	1,74	4,33E-01
O54916	5	2	6,09	19707	Reps1	0	1,25	9,25E-01
Q6NS82	11	3	4,62	227298	Retreg2	0	1,14	9,71E-01
Q9WV07	5	3	8,09	23801	Aloxe3	0	1,48	6,46E-01
Q8R5J9	14	3	22,01	65106	Arl6ip5	0	1,19	7,77E-01
Q99KF1	17	3	20,88	67511	Tmed9	0	2,28	1,21E-06
P97447	11	3	18,5	14199	Fhl1	0	1,74	2,16E-02
Q9EPR4	6	3	2,06	54338	Slc23a2	0	0,74	7,12E-01
P61963	13	4	5,46	71833	Dcaf7	0	0,86	9,11E-01
Q9JLT4	4	2	14,18	26462	Txnrd2	0	0,78	6,66E-01
Q8JZR0	3	2	40,58	433256	Acs15	0	0,79	6,58E-01
Q8VI75	4	3	2,25	75751	Ipo4	0	1,10	9,76E-01
Q80VC9	6	4	0	69697	Camsap3	0	1,54	6,94E-01
O35114	8	4	9,41	12492	Scarb2	0	0,75	2,68E-01
Q8BTG3	7	3	10,37	320554	Tcp1111	0	1,55	5,85E-01
Q9JI39	4	3	2,07	56199	Abcb10	0	0,91	9,59E-01
Q8JZW5	10	4	0	230863	Sh2d5	0	0,71	6,52E-01
O88958	11	3	9,26	26384	Gnpda1	0	1,09	9,74E-01
Q8BUY5	13	3	4,39	76916	Timmec1	0	0,63	5,80E-01
Q9Z0L0	7	3	8,55	21983	Tpbg	0	0,85	8,93E-01
P53702	10	2	10,16	15159	Hccs	0	0,00	1,60E-16
Q9CRB8	21	3	25,71	67900	Mtff1	0	0,98	9,78E-01
Q80ZW2	17	4	7,58	223626	Them6	0	1,39	7,52E-01

Q14C51	5	3	5,4	69956	Ptcd3	0	0,81	8,41E-01
Q9QZB9	12	2	9,18	59288	Dctn5	0	0,94	9,76E-01
Q3TRJ4	5	3	41,58	320864	Krt26	0	1,61	4,64E-02
Q9ET30	5	3	13,19	107358	Tm9sf3	0	1,05	9,76E-01
P24547	6	2	9,86	23918	Impdh2	1	1,14	9,13E-01
Q9CY18	5	2	5,66		Snx7	0	0,72	6,74E-01
Q3UMB5	4	4	1,76	237782	Smcr8	0	1,08	9,85E-01
Q9D8Y1	15	3	29,04	66271	Tmem126a	0	0,70	1,22E-01
Q9CQI6	23	4	39,08	72042	Cotl1	0	0,92	9,12E-01
P00158	7	3	32,84	17711	Mt-Cyb	0	0,77	4,00E-01
Q61249	7	2	8,35	18518	Igbp1	0	1,22	9,09E-01
O55229	9	2	5,44	12651	Chkb	0	1,34	8,44E-01
Q8BGT1	5	3	4,3	71436	Flrt3	0	1,00	9,85E-01
Q99M51	11	3	0	17973	Nck1	0	0,90	9,66E-01
Q6NVF0	3	3	2,16	320634	Ocr1	0	1,56	7,23E-01
Q8K4I3	3	2	22,69	73341	Arhgef6	0	0,84	8,36E-01
P17047	6	3	9,14	16784	Lamp2	0	0,79	7,97E-01
Q91VT4	11	2	5,68	234309	Cbr4	0	0,80	8,12E-01
Q9D415	3	2	5,85	224997	Dlgap1	0	1,40	7,86E-01
Q921W4	10	3	4,02	66609	Cryz11	0	1,08	9,78E-01
Q3URE1	4	2	10,82	257633	Acsf3	0	1,39	7,63E-01
Q8BWR2	12	2	7,64	66193	Pithd1	0	1,14	9,02E-01
Q9DCZ1	12	4	3,73	66355	Gmpr	0	0,86	7,52E-01
Q8BL66	2	3	1,87	216238	Eea1	0	1,40	7,49E-01
Q3TVA9	2	2	4,42	232664	Ccdc136	0	0,63	6,23E-01
Q9CYN9	6	2	15,17	70495	Atp6ap2	0	1,24	7,50E-01
P61620	6	2	22,64	53421	Sec61a1	1	1,24	6,93E-01
Q9D832	11	3	4,87	67035	Dnajb4	0	1,23	9,09E-01
P54830	7	4	13,87	19259	Ptpn5	0	0,82	6,07E-01
Q64291	6	2	4,75		Krt12	0	160,05	1,60E-16
Q9D1P4	16	4	0	66917	Chordc1	0	1,12	9,76E-01
Q8QZV4	6	2	6,61	57740	Stk32c	0	0,91	9,71E-01
Q3TUH1	11	3	16,2		Tamm41	0	0,94	9,76E-01
Q8BGX3	7	3	1,99	211187	Lrtm2	0	0,91	9,70E-01
P97792	10	4	11,05	13052	Cxadr	0	1,05	9,85E-01
Q91VR7	17	2	7,59	66734	Map11c3a	0	0,75	2,74E-01
Q6ZPR4	5	4	1,96	227632	Kcnt1	0	0,72	8,12E-01
Q9EPB7	11	2	22,56	64378	Gpr88	0	1,01	1,00E+00
P70236	11	3	6,04	26399	Map2k6	0	1,28	9,02E-01
Q8JZU2	8	2	15,23	13358	Slc25a1	0	1,00	9,96E-01
Q6P4S6	2	3	15,11	70661	Sik3	0	1,13	9,34E-01
Q8BHH2	11	2	17	319642	Rab9b	0	1,34	4,34E-01
P83940	20	2	9,1	67923	Eloc	0	0,95	9,76E-01
O55091	15	3	0	16210	Impact	0	1,55	5,36E-01
Q9CQX5	11	2	15,44	224250	Cldnd1	0	0,73	6,59E-01
Q9JI19	6	2	12,62	58249	Fibp	0	1,05	9,94E-01

Q99KN9	5	3	4,71		Clint1	0	1,36	7,89E-01
P59281	4	4	5,49	223666	Arhgap39	0	1,03	1,00E+00
Q3TCJ1	5	2	8,18	109359	Abraxas2	0	1,08	9,76E-01
A2ADY9	8	3	7,33	68817	Ddi2	0	1,11	9,76E-01
Q91Z38	8	2	10,58	66827	Ttc1	0	2,02	2,62E-01
Q78IK4	16	3	8,07	68117	Apool	0	0,90	9,71E-01
Q9DCT1	9	2	21,94	56043	Akr1e2	0	0,95	9,76E-01
P62627	23	2	2,02	67068	Dynlrb1	0	0,52	2,38E-01
P61759	14	3	9,49	22327	Vbp1	0	1,12	9,70E-01
Q01149	2	3	13,56	12843	Colla2	0	0,76	7,41E-01
Q8BGA3	5	3	11,2	107065	Lrrtm2	0	0,75	7,38E-01
Q99JG2	6	3	17,52	171469	Gpr3711	0	1,10	9,41E-01
Q6ZWX6	6	2	23,56	13665	Eif2s1	0	1,01	1,00E+00
Q5XKN4	13	2	1,91	67767	Jagn1	0	1,46	7,37E-01
Q99J77	9	2	6,84	94181	Nans	0	0,90	9,56E-01
P19639	11	3	28,37	14864	Gstm3	0	1,02	9,99E-01
Q9QZS3	7	2	8,17	18222	Numb	0	1,45	6,37E-01
Q9WUC3	15	2	6,41	23934	Ly6h	0	0,06	1,60E-16
P97324	9	4	0	14380	G6pd2	0	0,93	9,70E-01
Q91YM4	6	3	2,5	21379	Tbrg4	0	0,74	7,74E-01
P23492	15	3	9,52	18950	Pnp	0	0,94	9,74E-01
Q9JIZ9	10	4	1,69	70310	Plscr3	0	0,85	7,17E-01
Q8R123	7	3	14,28	319945	Flad1	0	1,19	9,22E-01
Q9ER72	4	3	1,85	27267	Cars1	0	1,04	1,00E+00
Q9D154	6	2	6,33	66222	Serpinb1a	0	0,83	6,97E-01
Q8CG72	6	2	10,43	100206	Adprs	0	1,04	1,00E+00
Q2TPA8	6	3	9,06	72479	Hsdl2	0	0,63	3,86E-01
Q3UUI3	16	3	4,28	75778	Them4	0	0,55	1,93E-01
Q91VK4	16	3	3,81	64294	Itm2c	0	0,97	9,76E-01
Q91V57	6	2	3,59	108699	Chn1	0	1,22	9,60E-01
Q8BYH7	4	2	9,65	233204	Tbc1d17	0	1,02	1,00E+00
Q8BFY6	8	3	10,54	67898	Pef1	0	0,58	2,91E-01
P58021	3	2	13,52	68059	Tm9sf2	0	0,92	9,74E-01
Q9CQE1	12	3	12,09	66536	Nipsnap3 b	0	1,10	9,56E-01
Q8BIG7	8	2	24,65	69156	Comtd1	0	0,92	9,25E-01
O54781	5	3	12,85	20817	Srpk2	0	1,12	9,76E-01
Q9JKX6	14	3	10,06	53893	Nudt5	0	1,68	5,07E-01
Q5NCE8	5	2	14	380836	Mrs2	0	0,77	7,77E-01
Q8BJ03	5	2	12,92	226139	Cox15	0	0,71	7,33E-01
Q91VM3	7	2	6,02	54636	Wdr45	0	1,59	5,21E-01
P47758	13	2	4,45	20818	Srprb	0	0,00	1,60E-16
Q91V76	8	2	5,86			0	0,94	9,76E-01
O35495	7	2	31,59	18647	Cdk14	0	1,47	7,13E-01
Q9R1C6	4	2	6,93	56077	Dgke	0	0,89	9,59E-01
P51791	4	3	10,45	12725	Cln3	1	0,72	2,37E-01
Q7TMS5	3	2	12,11	26357	Abcg2	0	0,67	5,32E-01



D3YZP9	9	4	0	76551	Ccdc6	0	1,33	8,07E-01
Q9WTP6	15	3	10,01	11637	Ak2	0	1,15	9,56E-01
Q2TBE6	8	4	3,36	84095	Pi4k2a	0	1,03	1,00E+00
Q6PE15	9	3	3,74	213012	Abhd10	0	1,63	4,51E-01
Q3UHG7	9	3	0		Dennd11	0	0,76	8,09E-01
Q03173	5	4	9,25	13800	Enah	0	0,97	9,78E-01
O08576	4	2	12,77	51799	Rundc3a	0	0,81	8,85E-01
Q7TSV4	6	4	0	66681	Pgm2	0	1,25	9,23E-01
Q9JM63	7	2	9,53	16513	Kcnj10	0	0,98	9,88E-01
Q5U4E0	12	3	1,85	269788	Lhfp14	0	1,20	9,16E-01
O55137	5	2	11,11	26897	Acot1	0	0,97	9,76E-01
Q9QYR9	5	2	11,11	171210	Acot2	0	0,97	9,76E-01
Q8BX10	11	3	12,25	72542	Pgam5	0	0,84	8,85E-01
Q8VE09	6	3	5,73	72747	Ttc39c	0	1,11	9,78E-01
Q9D3P8	14	2	9,47	67759	Plgrkt	0	0,75	7,93E-01
Q8BFZ2	5	2	11,76	272031	Plppr1	0	1,13	9,11E-01
SODC_HU MAN	20	2	11,28			0	0,73	7,69E-01
P49945	25	3	0		Ftl2	0	0,74	7,77E-01
Q9JJ59	4	2	7,86	56325	Abcb9	0	0,53	3,85E-01
P70349	17	2	12,8	15254	Hint1	0	0,97	9,76E-01
P56873	19	2	2,77	56390	Znrd2	0	1,69	4,83E-01
Q9EP53	3	3	6,15	64930	Tsc1	0	1,17	9,41E-01
P17439	4	2	3,59	14466	Gba	0	1,28	8,70E-01
Q9DBX6	7	3	2,44	74134	Cyp2s1	0	1,16	9,62E-01
Q9JI90	5	2	11,74	56736	Rnf14	0	1,04	1,00E+00
P56395	19	2	4,5	109672	Cyb5a	0	1,11	9,76E-01
A2APY7	7	2	4,15	69487	Ndufaf5	0	0,78	7,97E-01
Q9D020	10	3	5,92	107569	Nt5c3a	0	0,95	9,78E-01
P0C7L0	7	3	4,12		Wipf3	0	1,28	8,10E-01
D3Z7H4	7	2	18,08	269994	Gsg11	0	1,07	9,85E-01
P62301	9	2	4,15	68052	Rps13	0	0,00	1,60E-16
O09131	13	3	1,83	14873	Gsto1	0	0,93	9,56E-01
Q9ES56	15	3	2,2	60409	Trappc4	0	1,29	7,86E-01
P68037	17	3	5,17	22195	Ube2l3	0	1,44	6,79E-01
Q80T79	1	2	1,63	239420	Csmd3	0	1,10	9,77E-01
Q3U0D9	3	3	1,93	209462	Hace1	0	1,49	6,59E-01
Q9DBR3	4	3	11,18	74125	Armc8	0	1,35	5,25E-01
Q8BYC6	3	3	19,04	330177	Taok3	0	1,06	9,74E-01
P63216	29	2	11,07	14704	Gng3	0	1,00	1,00E+00
Q80YV4	4	3	1,68	269614	Pank4	0	1,07	9,85E-01
P16110	9	2	2,28		Lgals3	0	1,12	9,76E-01
Q9D9V3	9	3	6,95	52665	Echdc1	0	0,68	2,19E-01
Q8BMK4	7	4	0	216197	Ckap4	0	0,29	4,18E-03
Q9WTK7	7	3	6,31	20869	Stk11	0	1,40	7,33E-01
P47743	6	3	8,07	14823	Grm8	0	1,20	9,56E-01
Q99KC8	4	3	9,47	67776	Vwa5a	0	0,76	4,28E-01

Q8CIB5	5	3	0	218952	Fermt2	0	0,69	6,86E-01
O54946	7	2	9,32	23950	Dnajb6	0	1,28	9,11E-01
P70699	4	3	3,38	14387	Gaa	0	0,70	6,90E-01
Q64475	20	3	5,86	319178	H2bc3	0	0,68	1,50E-01
Q8CGP2	20	3	5,86	319188	Hist1h2b p	0	0,68	1,50E-01
Q64525	20	3	5,86	319189	Hist2h2b b	0	0,68	1,50E-01
Q8CGP1	20	3	5,86	319184	H2bc12	0	0,68	1,50E-01
P10854	20	3	5,86	319186	H2bc14	0	0,68	1,50E-01
Q64478	20	3	5,86	319182	H2bc9	0	0,68	1,50E-01
Q6ZWY9	20	3	5,86	319179; 319181; 68024	H2bc4; H2bc6; H2bc8	0	0,68	1,50E-01
P10853	20	3	5,86	319180; 319183; 319185; 319187; 665596; 665622	H2bc11; H2bc13; H2bc15; H2bc7	0	0,68	1,50E-01
Q91XD7	5	2	9,05	171508	Creld1	0	0,82	8,53E-01
Q9JL26	2	2	10,15	57778	Fmnl1	0	1,23	9,05E-01
P70188	4	3	5,82	16579	Kifap3	0	1,29	8,85E-01
Q6P5E4	2	3	3,65	320011	Uggt1	0	0,58	4,13E-01
Q91VR5	3	2	6,21	104721	Ddx1	0	0,93	9,76E-01
Q99KI3	15	3	0	66087	Emc3	0	1,12	9,76E-01
Q91YD9	5	3	15,77	73178	Wasl	0	1,07	9,74E-01
Q7TPS5	2	2	1,83	74741	C2cd5	0	1,17	9,64E-01
Q9JIF7	5	3	0	70349	Copb1	0	0,95	9,76E-01
Q8VD62	8	2	9,3	107242	Bles03	0	1,05	9,91E-01
P15920	2	2	34,07	21871	Atp6v0a2	0	0,89	8,42E-01
P42225	3	2	1,85		Stat1	0	1,23	9,50E-01
Q8BYN5	5	2	6,9	319636	Fsd11	0	0,90	9,56E-01
Q9JIM1	5	2	20,46	63959	Slc29a1	0	1,13	9,65E-01
Q99LB2	10	3	1,78	28200	Dhrs4	0	1,22	9,56E-01
Q9DCC8	17	2	2,41	67952	Tomm20	0	1,43	3,20E-01
P36536	10	2	22,72		Sar1a	0	1,23	7,60E-01
Q61234	5	2	7,95		Snta1	1	0,70	3,58E-01
Q80U19	3	3	3,95	76441	Daam2	0	0,53	3,19E-01
Q9JMK2	6	2	2,07	27373	Csnk1e	0	1,68	4,08E-01
Q923Z0	9	3	0	64297	Gprc5b	0	1,09	9,76E-01
Q9CXI0	11	3	0	52064	Coq5	0	0,57	3,44E-01
P40630	11	3	3,68	21780	Tfam	0	0,98	9,94E-01
E9Q8I9	1	4	0	320365	Fry	0	1,27	8,93E-01
Q5XJY5	7	3	0	213827	Arcn1	0	1,34	5,88E-01
P24668	8	2	10,7	17113	M6pr	0	0,45	1,77E-02
O70274	13	2	2,14	19244	Ptp4a2	0	1,19	9,36E-01
Q63739	13	2	2,14	19243	Ptp4a1	0	1,19	9,36E-01
Q7TSI3	5	2	0	243819	Ppp6r1	0	1,10	9,76E-01

Q8C0J2	3	2	5,88	77040	Atg16l1	0	1,42	7,74E-01
Q0VVGU4	7	3	1,92	381677	Vgf	0	1,10	9,76E-01
P70280	11	3	12,46	20955	Vamp7	0	1,82	1,23E-01
Q8VIM9	4	2	11,41	210146	Irgq	0	1,22	9,19E-01
Q9WVJ5	15	3	1,63	12960	Crybb1	0	1,49	1,14E-01
Q80TM9	2	2	7,09	64652	Nisch	0	0,99	9,92E-01
O54734	7	3	4,21	13200	Ddost	0	1,00	9,96E-01
P97742	5	3	3,41	12894	Cpt1a	0	0,90	9,56E-01
Q8VVK1	9	3	0	27045	Nit1	0	1,94	1,93E-01
Q8BTZ7	9	3	5,73	331026	Gmppb	0	0,80	8,21E-01
Q8K2P7	4	2	1,93	105727	Slc38a1	0	1,72	3,40E-01
Q8BX94	11	2	5	228983	Osbpl2	0		
Q9CXV1	11	2	2,17	66925	Sdhd	0	1,09	9,76E-01
Q9D1D4	11	2	0	68581	Tmed10	0	1,12	9,76E-01
Q8CJ61	9	2	17,04	97487	Cmtm4	0	1,24	8,66E-01
Q8BGK5	11	2	3,32	215085	Slc35f1	0	0,76	8,08E-01
Q9D328	14	2	2,08	67564	Tmem35a	0	1,10	9,74E-01
P56376	27	2	7,97	66204	Acyp1	0	1,34	8,07E-01
Q80Y55	8	3	1,69	100383	Bsdcl	0	1,00	9,97E-01
Q8VCM8	5	3	7,28	103425	Ncln	0	1,07	9,76E-01
Q8VD75	4	2	1,69	215114	Hip1	0		
Q8R2Y8	18	2	1,6	217057	Pthr2	0	1,10	9,76E-01
P26516	7	2	4,11	17463	Psmd7	0	1,01	1,00E+00
Q9JJR8	15	3	12,27	56786	Tmem9b	0	1,19	9,43E-01
P61979	6	2	2,52	15387	Hnrmpk	0	1,01	9,98E-01
P05555	3	3	0		Itgam	0	0,49	1,83E-01
Q8C5W3	8	3	1,62	272589	Tbcel	0	1,14	9,24E-01
Q6GYP7	1	2	1,78	56784	Ralgapa1	0	1,34	8,95E-01
Q8R0Y8	10	3	13,35	73095	Slc25a42	0	0,56	2,79E-02
Q5RKR3	5	3	1,89	320563	Islr2	0	0,96	9,78E-01
Q6PD26	4	2	3,87	276846	Pigs	0	1,04	9,94E-01
P56382	44	3	34,39	67126	Atp5fle	0	1,04	9,85E-01
O08914	5	3	3,68	14073	Faah	0	0,68	6,07E-01
P61211	11	2	9,88	104303	Arl1	0	1,11	9,74E-01
P21300	9	2	22,48	11997	Akr1b7	0	0,92	9,66E-01
P62069	6	2	11,34	69727	Usp46	0	1,26	8,07E-01
P31230	9	2	3,7		Aimp1	0	0,32	2,16E-02
Q920P5	4	2	9,26	229949	Ak5	0	1,08	9,83E-01
Q8K3W0	10	3	0	107976	Babam2	0	1,08	9,87E-01
Q9CZN7	5	3	0	108037	Shmt2	0	1,33	7,84E-01
Q9DB72	8	2	2,15	72014	Btbd17	0	0,00	1,60E-16
O70585	4	3	7,41	13528	Dtnb	0	1,06	9,76E-01
O35598	3	2	1,87	11487	Adam10	0	0,57	3,61E-01
Q62186	12	2	12,77	20832	Ssr4	0	1,41	7,10E-01
P0C027	18	2	1,65	102954; 58242	Nudt10	0	1,29	8,42E-01
Q8C080	7	2	3,72	74718	Snx16	0	1,04	9,87E-01

Q8QZY1	6	3	0	223691	Eif3l	0	0,99	9,85E-01
Q9CPS6	15	2	23,04	66847	Hint3	0	1,20	8,64E-01
Q9JIA7	6	2	1,91	56632	Sphk2	0	1000,00	1,60E-16
Q9D8B7	9	3	7,29	83964	Jam3	0	1,37	4,35E-01
O55029	4	3	2,12	50797	Copb2	0	1,18	9,63E-01
Q922H2	5	2	19,19	236900	Pdk3	0	0,94	9,76E-01
Q6PHU5	3	2	5,53	20661	Sort1	0	0,76	8,17E-01
Q6V4S5	2	4	0	237979	Sdk2	0	1,21	9,34E-01
Q810J8	5	3	1,65	217695	Zfyve1	0	1,08	9,74E-01
Q6ZPF4	3	3	0	22379	Fmnl3	0	0,97	9,77E-01
Q5SSH7	1	3	0	195018	Zzef1	0	1,23	9,09E-01
Q9CWU6	9	2	5,48	56046	Uqcc1	0	0,76	7,49E-01
Q8K2C6	7	2	0	68346	Sirt5	0	1,37	7,63E-01
Q8K394	3	3	4,19	224860	Plcl2	0	1,26	8,91E-01
Q921G8	4	3	0	74237	Tubgcp2	0	1,41	8,52E-01
P35979	15	2	20,5	269261	Rpl12	0	0,83	8,68E-01
Q9ES89	7	2	1,61	58193	Extl2	0	1,15	9,34E-01
Q8K353	11	2	9,16		Cystm1	0	1,11	9,76E-01
Q8VCR2	8	3	1,81	243168	Hsd17b13	0	0,91	9,74E-01
Q9DBX3	2	2	16,16	71733	Susd2	0	0,95	9,76E-01
Q9D7V2	10	2	5,42	70082	Lysmd2	0	1,24	8,85E-01
Q8BK63	9	3	0		Csnk1a1	0	1,05	9,87E-01
Q9WUP7	10	3	1,63	56207	Uchl5	0	0,91	9,71E-01
P35285	11	2	10,46	19334	Rab22a	0	0,77	7,93E-01
Q8BGY2	18	3	6,05	208691	Eif5a2	0	0,84	8,82E-01
Q64455	3	3	0	19271	Ptpnj	0	0,72	7,49E-01
Q64523	12	2	12,7	319176	H2ac20	0	0,93	9,64E-01
Q8BFU2	12	2	12,7	319162	H2aw	0	0,93	9,64E-01
Q3THW5	13	2	12,7	77605	H2az2	0	0,93	9,64E-01
C0HKE3	12	2	12,7	319164; 319165; 319166; 319167; 319170; 319171; 319172; 319191; 665433	H2ac7	0	0,93	9,64E-01
P0C0S6	13	2	12,7	51788	H2az1	0	0,93	9,64E-01
Q8CGP5	12	2	12,7	319173	Hist1h2af	0	0,93	9,64E-01
Q8R1M2	12	2	12,7	232440	H2aj	0	0,93	9,64E-01
P27661	11	2	12,7	15270	H2ax	0	0,93	9,64E-01
Q8CGP7	12	2	12,7	319169	H2ac15	0	0,93	9,64E-01
Q8CGP6	13	2	12,7	319168	H2ac12	0	0,93	9,64E-01
Q6GSS7	12	2	12,7	15267; 319192	Hist2h2aa 1; Hist2h2aa 2	0	0,93	9,64E-01
Q9QYB1	8	2	18,21	29876	Clic4	0	1,07	9,83E-01
Q7TMC8	2	2	5,36	234730	Fcsk	0	1000,00	1,60E-16

Q91ZH7	6	2	5,61	106861	Abhd3	0		
Q99MK8	3	2	3,54	110355	Grk2	0	0,94	9,74E-01
Q3UYH7	3	2	3,54	320129	Adrbk2	0	0,94	9,74E-01
P47963	9	2	0	270106	Rpl13	0	1,05	9,94E-01
P59764	1	2	1,66	238130	Dock4	0	0,68	7,09E-01
Q8VDZ4	4	2	1,84	228136	Zdhhc5	0	1000,00	1,60E-16
Q9DB15	13	2	4,32	56282	Mrpl12	0	2,74	6,20E-05
P63213	41	2	8,52	14702	Gng2	0	0,81	8,85E-01
Q78JN3	8	2	10,77	69123	Eci3	0	0,88	9,56E-01
P21661	4	2	0	18549	Pcsk2	0	0,99	9,96E-01
Q9CQ65	10	2	3,93	66902	Mtap	0	1,40	7,86E-01
Q920R6	2	2	32,38	140494	Atp6v0a4	0	0,85	7,61E-01
Q8R0F8	13	2	0	68636	Fahd1	0	1,25	9,16E-01
Q60770	6	3	0	20912	Stxbp3	0	0,85	9,34E-01
Q8BGB7	8	2	18,94	67870	Enoph1	0	1,07	9,76E-01
Q9CQE8	10	2	1,75	68045	RTRAF	0	1,74	4,49E-01
P70333	7	2	0	56258	Hnrmp2	0	0,74	7,89E-01
O35737	7	2	0	59013	Hnrmp1	0	0,74	7,89E-01
Q8BHG2	18	2	4,2	74098	Czib	0	0,83	8,24E-01
Q80Y98	4	3	1,75	72108	Ddhd2	0	1,11	9,76E-01
Q8BMD8	5	2	9,76	229731	Slc25a24	0	1,16	9,66E-01
P0C5J4	5	2	0	620246	Gpr52	0	1,75	2,49E-01
P70211	2	3	1,73	13176	Dcc	0	1,53	6,94E-01
Q9CZX7	14	2	1,7	72519	Pip4p2	0	0,65	5,79E-01
Q9D1E8	6	2	13,67	52123	Agpat5	0	0,78	7,74E-01
Q8BH86	6	3	0	217830	Dglucy	0	1,07	9,76E-01
O88597	4	2	5,72	56208	Becn1	0	0,60	2,31E-01
P70663	3	2	0	13602	Sparcl1	0	0,79	8,52E-01
Q3TFQ1	11	2	12,86	66674	Spryd7	0	1,34	8,01E-01
P63056	4	2	10,04	229759	Olfm3	0	1,05	9,97E-01
P00848	8	2	9,97	17705	Mtatp6	0	0,78	7,50E-01
Q9QUH0	31	3	0	93692	Glrx	0	1,09	9,76E-01
Q7TN79	9	3	0	432442	Akap7	0	1,34	7,61E-01
O55074	36	3	0	432442	Akap7	0	1,34	7,61E-01
Q9JKW0	9	2	9,41	54208	Arl6ip1	0	0,96	9,74E-01
Q8BGP6	11	3	1,71	319653	Slc25a40	0	1,05	9,96E-01
Q8BP00	4	2	0	320299	Iqcb1	0	1,56	6,72E-01
Q9JLQ2	2	2	5,61	26431	Git2	0	1,11	9,56E-01
Q8CCN5	3	2	0	192197	Bcas3	0	0,47	1,70E-02
Q8K1A6	3	2	3,27	212139	Cc2d1a	0	0,92	9,27E-01
Q9Z1Q9	2	2	1,65	22321	Vars1	0	0,85	9,56E-01
Q6ZPF3	2	2	1,82	24001	Tiam2	0	1,26	9,37E-01
Q8K1S4	3	2	3,51	107448	Unc5a	0	0,83	9,35E-01
Q9D2N9	4	3	0	77573	Vps33a	0	1,32	7,37E-01
Q8K010	3	3	0	75475	Oplah	0	0,70	6,98E-01
Q9Z1K5	5	2	6,01	23806	Arih1	0		
P70290	6	2	2,17	17524	Mpp1	0	0,61	5,27E-01

P08030	13	2	0	11821	Aprt	0	1,07	9,76E-01
P27659	7	3	0	27367	Rpl3	0	0,88	9,56E-01
P61804	19	2	0	13135	Dad1	0	1,00	9,99E-01
Q9D1M0	11	2	8,74	110379	Sec13	0	1,13	9,74E-01
Q91XD6	6	2	2,05	70160	Vps36	0	1,21	9,34E-01
Q99LS3	9	2	0	100678	Psph	0	1,12	9,76E-01
P97412	1	3	0	17101	Lyst	0	1,74	5,10E-01
O08739	4	3	0	11717	Ampd3	0	0,95	9,77E-01
P18581	3	2	11,03	11988	Slc7a2	0	0,89	9,56E-01
Q91VA6	7	2	2,16	67811	Poldip2	0	0,84	9,16E-01
Q80UP3	4	3	0	104418	Dgkz	0	0,94	9,76E-01
Q8BNJ6	4	2	0	74513	Neto2	0	0,81	9,02E-01
O54818	11	2	1,85	21987	Tpd5211	0	29,12	1,60E-16
Q9DBH5	6	2	3,45	66890	Lman2	0	1,30	8,91E-01
P56528	8	2	3,89	12494	Cd38	0	1,55	6,58E-01
P07146	15	2	1,82	22072	Prss2	0	1000,00	1,60E-16
P62075	26	2	1,67	30055	Timm13	0	1,08	9,71E-01
P09055	2	2	9,86	16412	Itgb1	0	0,68	5,68E-01
Q9JJ28	2	2	1,99	14248	Flii	0	1,08	9,78E-01
Q9CPT4	14	2	0	28106	Mydgf	0	0,80	8,10E-01
Q05915	11	3	1,8	14528	Gch1	0	2,48	1,77E-02
Q9QYJ3	6	2	3,7	81489	Dnajb1	0	0,81	8,81E-01
Q78JW9	6	2	3,67	28018	Ubfd1	0	1,07	9,81E-01
P97930	9	2	1,93	21915	Dtymk	0	0,46	1,19E-01
Q9Z2B2	6	2	5,47	20523	Slc25a14	0	0,89	9,60E-01
Q3TWI9	2	2	1,7	224807	Tmem63b	0	0,00	1,60E-16
Q5F2E8	2	2	13,13	216965	Taok1	0	1,18	9,54E-01
Q08642	4	2	3,87	18600	Padi2	0	0,62	5,46E-01
Q8BWT5	1	2	9,89	64451	Dip2a	0	1,13	9,34E-01
P36916	3	2	0	14670	Gnl1	0	0,91	9,56E-01
Q8CA71	9	2	2,01	77552	Shisa4	0	1,26	8,82E-01
Q9WUA6	5	2	0	23797	Akt3	0	1,22	9,03E-01
Q8BLV3	2	2	0	236727	Slc9a7	0	1,14	9,72E-01
Q8BGF9	10	3	0	229517	Slc25a44	0	0,60	3,26E-02
Q8C3W1	9	2	0			0	1,12	9,70E-01
Q91YX5	6	2	9,4	226856	Lpgat1	0	1,08	9,76E-01
Q64520	14	2	3,44	14923	Guk1	0	0,76	8,37E-01
Q8VDU0	3	2	1,66	76123	Gpsm2	0	1,34	8,07E-01
Q9D2R6	19	2	0	52469	Coa3	0	0,77	7,39E-01
Q3TYX3	5	2	0	232187	Smyd5	0	1,19	9,54E-01
P46467	5	2	1,74	20479	Vps4b	0	1,06	9,85E-01
Q9ERK7	4	2	4,3	11444	Chrb2	0	2,98	4,58E-02
Q99J39	4	2	1,83	56690	Mlycd	0	0,95	9,74E-01
Q9CZM2	11	3	0	66480	Rpl15	0	1,10	9,79E-01
P60229	5	2	0	16341	Eif3e	0	0,03	1,60E-16
Q9WTN0	6	2	1,78	14593	Ggps1	0	0,97	9,78E-01
P83887	5	2	10,92	103733	Tubg1	0	1,43	7,12E-01

Q8VCK3	5	2	10,92	103768	Tubg2	0	1,43	7,12E-01
Q80W54	7	3	0	230709	Zmpste24	0	0,54	1,66E-01
Q9CWX2	8	2	1,77	69702	Ndufaf1	0	0,71	7,10E-01
Q8R1Y2	10	2	3,23	67254	Bmerb1	0	1,85	4,72E-02
Q6PHZ8	8	2	2,22	80334	Kcnip4	0	1,49	6,43E-01
Q8K0T4	4	2	2,11	231912	Katnal1	0	0,98	9,87E-01
Q9JKL4	18	2	1,7	66706	Ndufaf3	0	0,79	8,59E-01
Q62077	2	2	1,72	18803	Plcg1	0	0,61	1,22E-01
Q3V3Q7	2	2	6,33	217893	Pacs2	0	0,65	3,85E-01
Q5F285	33	2	5,88	69186	Tmem256	0	1,02	1,00E+00
O55028	6	2	0	12041	Bckdk	0	0,87	9,17E-01
Q3UI43	6	2	4,93	68251	Babam1	0	1,23	8,95E-01
Q3UJP5	13	2	0			0	0,88	9,71E-01
Q64373	8	2	5,47	12048	Bcl2l1	0	1,17	9,48E-01
Q99P31	6	2	0	66245	Hspbp1	0	1,12	9,72E-01
Q8VE22	11	2	1,8	64656	Mrps23	0	1000,00	1,60E-16
P00015	14	3	3,6	13067	Cyct	0	0,93	9,40E-01
Q8BP40	6	2	2,03	66659	Acp6	0	0,82	8,40E-01
Q920A7	2	2	3,85	114896	Afg3l1	0	0,00	1,60E-16
Q9CY50	7	2	3,38	107513	Ssr1	0	0,76	6,06E-01
Q3UIF9	7	2	0	94212	Pag1	0	0,31	4,18E-03
P26450	3	2	5,49	18708	Pik3r1	0	0,76	7,50E-01
Q8BJH1	10	2	0	67306	Zc2hc1a	0	2,43	5,80E-02
Q6TEK5	12	2	3,8	69568	Vkorc1l1	0	1,23	9,48E-01
Q9CR09	11	2	8,01	66155	Ufc1	0	1,04	9,94E-01
Q9QZD9	6	2	1,65	54709	Eif3i	0	1,01	1,00E+00
Q60766	5	2	1,72	15944	Irgm1	0	1,08	9,85E-01
P09925	6	2	2,36	20930	Surf1	0	0,74	7,86E-01
P70696	13	2	5,86	319177	H2bc1	0	0,68	1,66E-01
Q9WTL4	1	2	59,67	23920	Insrr	0	0,99	9,91E-01
Q8C052	3	2	11,86	270058	Map1s	0	1,25	9,11E-01
O35417	6	2	8,99		Pdyn	0	1,21	9,25E-01
Q9WTQ8	13	2	3,8		Timm23	0	1,02	9,91E-01
O88851	15	2	0	26450	Rbbp9	0	1000,00	1,60E-16
Q8BHL8	8	2	0	228769	Psmf1	0	1,02	1,00E+00
Q8BH70	3	2	3,39	269514	Fbxl4	0	1,22	8,91E-01
Q8CGV2	5	2	0	216343	Tph2	0	0,62	5,45E-01
Q6ZWN5	9	2	4,67	76846	Rps9	0	0,59	4,80E-01
Q80VP9	7	2	0	72898	Asphd2	0	0,01	1,60E-16
O55242	9	2	2,01	18391	Sigmar1	0	0,04	1,60E-16
P51175	5	2	0	19044	Ppox	0	0,92	9,74E-01
Q9R1J0	7	2	1,71	18194	Nsdhl	0	1,04	9,96E-01
P58044	7	2	1,65	102635 781; 319554	Idi1	0	1,32	8,12E-01
Q8BH00	2	2	9,05	237320	Aldh8a1	0	0,00	1,60E-16
S4R1M9	3	2	1,67	74486	Osbpl10	0	1,20	9,44E-01

P70335	1	2	4,21	19877	Rock1	0	0,77	8,42E-01
Q3UHD2	5	2	0	328232	Gfod1	0	1,01	1,00E+00
O88569	7	2	1,62	53379	Hnrnpa2b1	0	0,63	5,69E-01
Q9D0E3	13	2	1,7	217779	Lysmd1	0	1,01	1,00E+00
Q5DU31	7	2	0	320495	Ipcef1	0	1,33	8,45E-01
Q08274	3	2	6,73	13401	Dmwd	0	1,65	5,13E-01
Q61733	4	2	0	57312	Mrps31	0	0,64	4,24E-01
Q80V42	5	2	3,66	70574	Cpm	0	0,59	4,83E-01
Q08460	2	2	5,34	16531	Kcnma1	0	0,80	8,40E-01
Q3TMH2	6	2	0	74616	Scrn3	0		
Q61361	2	2	0	12032	Bcan	0	1,32	8,17E-01
A2RSJ4	2	2	1,75	75089	Uhrf1bp1	0	1,19	9,34E-01
Q6PDI6	5	2	0	235461	Mindy2	0	2,09	3,39E-01
Q8C8T8	9	2	1,6	69499	Tsr2	0	1,98	1,71E-01
P70124	5	2	1,64	20724	Serpinb5	0	0,33	3,07E-03
Q64444	7	2	0	12351	Ca4	0	4,76	4,83E-06
Q4JIM5	2	2	3,66		Abl2	0	1,05	9,85E-01
Q69ZS8	3	2	0	71529	Kazn	0		
Q9R0M6	12	2	3,29	56382	Rab9a	0	0,96	9,76E-01
P61329	7	2	17,09	14167	Fgf12	0	0,95	9,76E-01
P70379	6	2	17,09	14169	Fgf14	0	0,95	9,76E-01
Q91WB7	9	2	0	226122	Ubt1	0	0,57	4,76E-01
Q6PGH0	9	2	0	327900	Ubt2	0	0,57	4,76E-01
P54818	4	2	2,11	14420	Galc	0	0,34	2,46E-02
Q8VI51	1	2	5,83	66673	Sorcs3	0	3,04	2,03E-03
P54726	5	2	7,29	19358	Rad23a	0	0,98	9,87E-01
Q9CQ91	21	2	0	66091	Ndufa3	0	0,81	8,91E-01
Q63829	10	2	1,82	12238	Commd3	0	1,88	3,18E-01
Q8CF89	5	2	0	66513	Tab1	0	0,55	4,46E-01
Q8R1X6	5	2	0	229285	Spart	0	1,01	9,99E-01
P46737	9	2	14,79	210766	Brcc3	0	0,96	9,76E-01
Q3U186	3	2	1,68	109093	Rars2	0	0,37	4,69E-03
Q8BGF6	6	2	0	244548	Elmod2	0	0,65	4,76E-01
Q921W0	9	2	1,74	234852	Chmp1a	0	1,04	9,96E-01
Q8BQM8	1	2	1,65	319670	Eml5	0	0,88	9,56E-01
P97429	6	2	0	11746	Anxa4	0	0,00	1,60E-16
Q9D061	7	2	0	72482	Acbd6	0	1,26	9,12E-01
P70452	7	2	0	20909	Stx4	0	3,36	9,45E-04
O35393	6	2	0	13643	Efnb3	0	0,45	1,12E-02
O89116	8	2	5,13	53611	Vt1a	0	0,89	9,34E-01
Q6P3D0	9	2	0	75686	Nudt16	0	1,46	8,08E-01
Q922H4	6	2	2,04	69080	Gmppa	0	1,26	8,65E-01
Q9D6E4	12	2	0	73032	Ttc9b	0	1,10	9,76E-01
Q91W43	2	2	0	104174	Gldc	0	0,00	1,60E-16
Q8K1J6	7	2	0	70047	Trnt1	0		
O35459	6	2	1,73	51798	Ech1	0	0,51	8,31E-02



P59325	4	2	0	217869	Eif5	0	1,84	2,31E-01
Q3USB7	4	2	1,69	227120	Plcl1	0	0,00	1,60E-16
Q99PW8	3	2	0	16559	Kif17	0	0,91	9,74E-01
P25444	6	2	0	16898	Rps2	0	0,30	8,66E-05
O89001	1	2	0	12874	Cpd	0	0,00	1,60E-16
Q9WUT3	3	2	0	20112	Rps6ka2	0	1,96	2,47E-01
P18653	3	2	0	20111	Rps6ka1	0	1,96	2,47E-01
P18654	3	2	0	110651	Rps6ka3	0	1,96	2,47E-01
Q9CQ80	10	2	0	28084	Vps25	0	0,90	9,67E-01
Q91VH6	5	2	1,69	76890	Memo1	0	1,97	2,41E-01
Q6PAM0	7	2	0	108097	Prkab2	0	0,87	9,55E-01
P15388	4	2	1,64	16502	Kcnc1	0	0,92	9,76E-01
Q9D273	8	2	0	77697	Mmab	0	25,88	1,60E-16
Q8BR90	6	2	10,68			0	0,99	9,91E-01
Q8BR86	3	2	1,62	67703	Kirrel3	0	1,25	8,82E-01
Q3UQ84	3	2	0	71807	Tars2	0	1,23	8,95E-01
Q68FE2	4	2	0	245860	Atg9a	0	0,34	1,32E-02
Q8HW98	8	2	0	210094	Iglon5	0	0,98	9,87E-01
Q9CR98	12	2	7,66	66488	Fam136a	0	0,73	6,93E-01
Q9Z1Q5	11	2	0	114584	Clic1	0	0,00	1,60E-16
Q9D0J4	11	2	0	56327	Arl2	0	1,44	8,31E-01
Q3UUF8	5	2	0	218440	Ankrd34b	0	4,25	6,22E-06
Q8C4Q6	9	2	0	108909	Aida	0	1,18	9,60E-01
P59759	3	2	0	239719	Mrtfb	0	52,33	1,60E-16
Q9DC63	6	2	0	57443	Fbxo3	0	1,64	5,92E-01
SRPP_HE VBR	5	2	0		SRPP	0	0,99	9,96E-01
P50543	10	2	3,59	20195	S100a11	0	2,18	8,48E-02
Q80Y24	3	2	0	243548	Prickle2	0	0,99	9,91E-01
Q99JW1	5	2	3,27	216169	Abhd17a	0	0,84	7,19E-01
Q6P5E8	2	2	0	110524	Dgkq	0	1000,00	1,60E-16
Q80XU8	4	2	1,72	225875	Lrfn4	0	0,80	7,93E-01
O35454	2	2	1,67	26372	Cln6	0	0,82	8,52E-01
Q9D967	18	2	3,23	67881	Mdp1	0	1,01	1,00E+00
Q8K0V2	6	2	0	233805	Dcun1d3	0	0,94	9,74E-01
P84244	10	2	3,39	15078; 15081	H3-3a; H3-3b	0	1,16	9,48E-01
P02301	10	2	3,39		H3-5	0	1,16	9,48E-01
P68433	10	2	3,39	319152; 319153; 360198; 97908	H3c1; H3c10; H3c11; H3c8	0	1,16	9,48E-01
P84228	10	2	3,39	15077; 260423; 319148; 319149; 319150; 319151; 319154; 97114	H3c13; H3c14; H3c15; H3c2; H3c3; H3c4; H3c6; H3c7	0	1,16	9,48E-01

Q9ER35	7	2	0	63828	Fn3k	0	0,91	9,74E-01
Q9CYN2	8	2	3,59	66624	Spcs2	0	1,02	1,00E+00
Q9JI75	10	2	0	18105	Nqo2	0	0,80	5,62E-01
Q9R0A0	5	2	5,18	56273	Pex14	0	0,91	9,56E-01
Q5IRJ6	3	2	0	109108	Slc30a9	0	0,62	3,63E-01
Q8K2L8	3	2	0	217449	Trappc12	0	0,95	9,76E-01
O88512	2	2	0	11766	Ap1g2	0	0,82	8,25E-01
P14115	13	2	0	26451	Rpl27a	0	0,74	8,01E-01
Q8CI51	3	2	0	56376	Pdlim5	0	0,80	5,34E-01
Q8K4R4	5	2	0	71795	Pitpnc1	0	0,75	7,58E-01
P14576	5	2	0	24067; 665155	Srp54	0	1,21	9,52E-01
Q80ZJ6	3	2	0	227693	Zer1	0	1,05	9,94E-01
Q9QXK3	2	2	0	54160	Copg2	0	0,91	9,41E-01
Q80YQ8	7	2	0	68477	Rmnd5a	0	1,11	9,76E-01
Q80X72	3	2	0	74488	Lrrc15	0	1000,00	1,60E-16
Q91WL8	4	2	0	80707	Wwox	0	0,74	3,52E-01
Q9WV85	13	2	0	79059	Nme3	0	1,11	9,76E-01
Q02819	3	2	1,65	18220	Nucb1	0	0,81	8,95E-01
Q8R4H2	1	2	0		Arhgef12	0	1,27	9,32E-01
Q8C7K6	3	2	0	240334	Pcyox11	0	0,76	7,46E-01
Q61271	5	2	0	11479	Acvr1b	0	0,89	9,64E-01
Q8C547	1	2	1,61	320473	Heatr5b	0	1000,00	1,60E-16

**Supplementary Table 4: Proteomics comparison with Sharma et al.**

All proteome		
Common	Mouse Proteome Residual	DA-FASS Proteome Residual
Ruvbl2	Sergef	H2bc3
Gstm2	Dhx9	Selenoi
Psm4	Ssu72	Septin8
Capzb	Eif2b2	Atp5f1b
Ppia	Dcun1d2	Plppr4
Syt2	Hebp2	Srprb
Actn4	Vps28	Eloc
Tigar	Polr3c	Fcsk
Pithd1	Selh	Maip1
Pmm1	Pex19	Acacb
Dnajc11	Pkia	Cmtm4
Rab9b	Bcl7a	Ca4
Prkag2	Bnip3l	Vps50
Nos1	Shc2	Afdn
Sod2	Cachd1	Atp5md
Camk4	Trmt5	Adprs
Tnpo1	Ptgr1	Acaa1b
Atp6v1e1	B9d2	Mtatp6
Spata2l	Phax	Nudt10
Asap1	Spock2	Gstp2
Eef1g	Atp13a1	Tgm3
Vamp2	Rplp2	Rps2
Pfkl	Hmgn3	Gsdma2
Ndufs4	Strbp	Oga
Plp1	Psmg2	Nipsnap2
Tst	11-Sep	Prune1
Nln	Med4	Septin2
Pi4k2a	Mief1	Atp5f1e
Aimp1	Gtf2e2	Septin4
Gnaq	Steap3	Aloxe3
Gbe1	Tango2	Ap1g2
Aida	Kcnh1	Kiaa0513
Ctbp2	Slc25a15	H2ac20
Fahd1	Rnf115	Pc
Ap1s1	Hdgf	Mt-Cyb
Ptprs	Arhgap35	Mtco2
Gpre5b	Lzts1	Czib
Lta4h	C1qtnf4	Bles03
C1qbp	Fam73b	Selenbp2
Rasgrp2	Pitpnm3	Gatd1

Agpat3	Sowahe	Adrm1
Eef1d	Nup188	Slc35f1
Ppp2ca	Grk5	Eprs1
Ocrl	Def8	Mrtfb
Ckb	Bbx	Tmem35a
Ndufb3	Pea15;Pea15a	Ptpa
Dab2ip	Mrps9	Hspa1b
Tomm40	Samd10	Uba1y
Ube2m	Nmt1	Adgrl1
Arfgef3	Arhgap29	H4c1; H4c11; H4c12; H4c14; H4c2; H4c3; H4c4; H4c6; H4c8; H4c9; H4f16; Hist1h4m
Bcat1	Mp68	Pcdhga4
Tecpr1	Slc47a1	H2ac15
Mboat7	Nup210	Ckmt2
Ppm1h	Sharpin	Septin9
Ran	Nol4l	Hsd17b8
Tars2	Sh3rf1	Plppr1
Grik3	Mad11l	Ret
Stxbp5	Tcaim;TCAIM	H2az1
Crtac1	Pla2g4e	Hnrnpk
Gcdh	Sor1l	Atp6v0a4
Calr	Pcbd2	Hba
Ddah2	Emsy	Atp2a1
Hbb-b1	Rpl37	Atp5f1c
Wasf3	Armex2	H3-5
Snap29	Dda1	Pof1b
Csnk2b	Mdc1	Psm8
Suclg1	Ptprk	Pycr3
Map2	Mzt2	Ajm1
Xkr4	Kit	Znr2
Actc1	Sult1a1	Prps1
Fam171a 2	Apex1	Cyria
Kctd16	Flywch1	Adgrb1
Htt	Taf5l	Hsd17b13
Got1	Ppp1r1c	Septin11
Grin2b	Nop9	Hars1
Pgm2	Rbbp6	Ass1
Stam	Gbf1	Gapdhs
Crip2	Cinp	Rack1
Osbp11a	Fam117b	Dsg1b
Cacng2	Nid2	Pip4p2
Cpt1a	Mrpl38	Grik5
Elmo1	Crabp2	Aldh8a1

Arl6ip5	Ehmt1	Acta1
Gga3	Ubr3	H2bc4; H2bc6; H2bc8
Pld3	Dnajc7	H3-3a; H3-3b
Wdr47	Tor3a	H3c1; H3c10; H3c11; H3c8
Ptpn23	Ccdc134	Rasl2-9
Atp1a2	Nup37	Prxl2b
Ptpn11	Spp12b	Gatd3a
Cacna2d3	Mrpl48	Atp5mf
Tomm22	Rpl24	MtnD5
Snap47	Phospho1	Tomm70
Syne1	Mlf2	Dars1
Cox15	Dock6	NARS1
Coro1b	Khdrbs3	H2ac12
Atp6ap1	Ntn1	Naxd
Uba1	Wls	Nectin1
Itgb2	Larp7	H2az2
Pde4d	Wdr3	Pkp1
Slc25a25	Baz1a	Gsdma
Copg2	Cep76	Fbx14
Galk1	Tubb4b	Eif3j2
Rabgap1	Ddx42	Insrr
Mthfd1	Rasa2	Scn2a
Nsdhl	Eed	Prss2
PsmD5	Mrc2	H2aw
Dpp3	Med23	Atp5f1a
Pak3	Icmt	Spart
Rab22a	Tk2	Gars1
Cpne2	Fgg	F8a1
Hspa12b	Brms1l	Tufm
Shisa4	Sh3bp4	Rida
Shank2	Nmral1	Hist1h2bp
Cyfp2	Ppp2r5b	Tprg1l
Pgrmc2	Mtx3	Mindy2
Poldip2	Rpl27	Rab11b
Asrg1l	Usp13	H2aj
Slc7a10	Tecr	Atp5pd
Robo2	Hist1h1a	Acot10
Cacna2d1	Caprin1	H2bc14
Aifm1	Tusc3	Hacd3
Numb	Zcche18	Gk2
P2ry12	Rtf1	Mfsd4a
Necap1	Senp3	Hist2h2aa1; Hist2h2aa2
Lman2	Cab39l	Adgrl2

Tubb3	Dxo	Tuba3a; Tuba3b
Dtd1	Mrpl1	Tmem121b
Clptm1	Sidt1	Palm2
Nt5c	Cbl11	Sdr9c7
Stx6	Trim24	Nccrp1
Dock10	Mrps33	Atp5pb
Txnl1	Pf4	Atp6v1e2
Arfgap1	Pir	Nme2
Map2k1	Elavl3	Gucy1a1
Kbtbd11	Pm20d1	RTRAF
Clen4	Pon2	H2bc11; H2bc13; H2bc15; H2bc7
Appl2	Ankrd49	Wars1
Ndrg4	Cox7b	H2bc12
Serpinb1a	Bicd2	Septin5
Ndrg2	Gclm	Pdyn
Cand1	Rbm25	Akr1e2
Atg5	Mapk7	D1Pas1
Hspa5	Mtus2	Rhot2
Gng3	Dbn1d1	Hist1h2af
Rabggtb	Mcat	Mtco1
Slc12a6	Dmap1	Stum
Mapt	Whsc1	Timm29
Cndp2	Rufy1	Marchf5
At11	Dpy1911	Retreg2
Cryz	5730455P16Rik	Bmerb1
Ppa2	Nop56	Serpinb6
Pigs	Zhx1	Itpr1
Cacng3	Gbas	Gpr88
Pdha1	Tuba8	Sars1
Bcap31	Ptprz1	Rab9a
Tollip	Sptbn2	Atp5po
Rab3b	Brwd3	Aars1
Lrrc4b	Isca2	Kiaa1549
Mpp3	Sfxn2	Septin3
Arl8a	Heca	Adgrb3
Plxna2	Kctd15	Serpinb5
Vps26b	Paf1	Lnpk
Scai	Rfx3	S100a14
Ppp2r1a	Sil1	Babam2
Pde1a	Luzp2	Hbb-b2
Pdcd10	Tmco1	Epb4111
Hsd17b1		
0	Plekhh1	Gstm3
Trappc4	Fam89b	H2bc9

Kif21a	Qtrt1	Abraxas2
Cdipt	Taf6l	Dglucy
Fkbp8	Ostc	Pgm1
Acsl3	Fam92a1;Fam92a	Septin7
Rnf214	Nufip2	Cars1
Ak1	Nelfa	Rpl11
Cct6b	Serpina3n	Adgrl3
Slc32a1	RtcA	Plppr3
Pgbd5	Srp68	Uchl4
Mat2b	Ttf2	Fgf14
Cct8	Ltf	C2cd4c
Mical3	Akr1c18	Yars1
Mrs2	Alg1	Ctnna2
Camk2a	Tfeb	Dsg1a
Abcb8	Ppp4r1	H2bc1
Gdpd1	Cdy1	Eif3j1
Glrx3	Tut1	H2ax
Hagh	Mfn1	Lrrc15
Mdh1	Pvr1l	Mmut
Mapre2	Atp7a	Hist2h2bb
Cox6c	Qrs1l	Relch
Sh3glb2	Cd97	Acta2
Fbx116	Tpr	Adora2a
Kif2a	Asph	Calm2
Arrb1	Lrrc20	Gsdma3
Ociad1	Atat1	Skt
Ppp2r2c	Rpusd4	Elob
Cpe	Trafd1	Rars1
Actr1a	Tfb1m	Mydgf
Irgm1	Prepl	Ubt1
Rab11a	Tmem106a	Adss2
Dap3	Sox10	Actg2
Gpsm2	Ggcx	Atp5f1d
Prdx3	Cers6	Atp5mg
Lanc11	Map3k19	Plpp3
Ap2a1	Fmr1	Gpr52
Ppp2r5c	Adamts4	Mtnd4
Ntng2	Akr1b8	Eipr1
Lrrc7	Otud6b	Dsg1c
Prkar2a	C5	Calm13
Hnrnpa2b	Plekha2	Naxe
1	Plekha2	Hal
Rab33b	Kbtbd4	Septin6
Cops3	Rab2b	

Capn1	Mrps26	Chrb2
Gabra2	Yes1	Eci3
Tomm40l	Polr2c	Tars1
Ndufb7	Ccdc28b	Dennd11
Tpm2	Dpyd	Cycs
Fth1	Hbs11	Gucy1b1
Cmpk1	Abcb6	Grk2
Stxbp3	Tbc1d4	Atp5me
Clic4	Rbm15	G6pd2
Prep	Atrnl1	Cldnd1
Rab24	Agrr	Plpbb
Trpv2	Txndc15	Kif17
Slc25a20	mt-Co1;Mtcol	Ftl2
Dnaja2	Pbk	H3c13; H3c14; H3c15; H3c2; H3c3; H3c4; H3c6; H3c7
Dbnl	Card9	Cyrib
Msn	Spry2	Vars1
Dnajb4	Rexo2	Rpl15
Picalm	Dhcr7	Phf24
Irgq	Eif3g	Prxl2a
Fam177a	Lig1	Mtstp8
1	Pqbp1	H2ac7
Vdac1	Kcna4	Mtarc2
Psmc5	Msh6	Rab1A
Exoc5	Nkrf	Get3
Hspd1	Kdm5d	
Soga3	Acn9	
Isyna1	Cux1	
Tnr	Magee1	
Stim1	Smyd3	
Mlc1	Ssfa2	
Babam1	Heatr3	
Kif1b	Gtpbp1	
Mtmr2	Kiaa0100	
Tiam2	Sp4	
Rap2a	Vps39	
Lin7a	Nol10	
Brinp1	Stk38l	
Mrpl12	Fbxo4	
Crat	Rab12	
Nefm	Rad54l2	
Clip2	Fbxo45	
Fsd1	Tsen34	
Ptpn9		



Sar1a	Gjb2
Cadps2	Fam3c
Kif5a	Ostm1
Dctn5	Zyg11b
Tubg1	Smu1
Gsto1	Cpn2
Sec61a1	Man1a2
Erp44	Samhd1
Ptk2	Nubp1
Cops7a	Ctdspl2
Pgam2	Tbc1d22a
Slc6a1	Sel1l
Kcnt1	Nkiras2
Gnb1	Apoa1bp
Ndufs6	Bax
Impact	Lrrc10b
Copb2	Chd2
Psat1	Ints1
Hdhd3	Itih3
Lmtk2	Galnt7
Grm3	Morc2a
Cit	Shpk
Anxa3	Amdhd2
Ctnnb1	Bclaf1
Acvr1b	Scyl1
Csnk1e	D8ErtD738e
Trap1	Rims3
Pcbp1	Lama1
Cldn11	Ik
Plxnb2	Wdhd1
Hint2	Wdr83
Hint3	Neu2
Igfbp1	Nxt2
Micul	02-Sep
Strap	Chmp2a
Arfgef1	Htatip2
Psm2	Zfand1
Ngef	Lilrb4
Sh3kbp1	H2afy
Lgalsl	Gira2
Ggct	Arhgef2
Ndrp1	Arhgef1
Fbxo2	Rel1

Inpp4a	Sltn
Atp6v0a1	Znf365
Lrp1	Prkcdbp
Synpo	Map4k2
Ina	Mpc1
Stx16	Pbdc1
Baiap2	Urb1
Rnh1	Meis2
Mrps31	Nudt11;Nudt10
Srcin1	Anks1a;Anks1
Ap2m1	Zbtb40
Snx2	Tpcn1
Add3	Gtf3c1
Cfl1	Thoc7
Asphd2	Frmpd4
Ppib	Npas3
Pitpnm1	Fpgt
Pik3c3	Ept1
Adcy9	Pde8a
Rcn2	Wdr92
Prdx2	Smarcd3
Slc7a2	Arhgdib
Ncs1	Diap1;Diaph1
Tenm4	Leo1
Map1b	Ints8
Prmt1	Ighv1-31
Por	Apbb1ip
Kcna2	Hnrnpf
Aspa	Alkbh6
Sep2	Wdr36
Mapk3	Morf4l1
Vgf	Tnfaip8
Hsp90b1	Slc38a10
Cbr4	Clec12a
Srgap3	Luc7l3
Igsf8	Slc22a6
Arf4	Cog8
Rplp0	Bhlhe22
Ivd	Uprt
Rabgef1	Epha5
Gstk1	Prkcz
Tsfm	Panx2
Agap3	Fads2

Dhrs4	Lima1
Vim	Hira
Tamm41	Plekhh2
Lzts3	Piezo1
Slc38a3	Psm10
Flot2	Frmd8
Hyou1	Pus71
Psm5	Eps8
Rps6ka2	Pph1
Slc25a13	Rps27a
Gch1	Dph5
Neto2	Mrpl33
Ryr3	Hnrnpdl
Arhgef7	Esyt1
Fam126b	Prdm16
Aco2	Zfp280d;Znf280d
Asic1	Mapkbp1
Nrbp2	Ncbp1
Abhd12	Stard5
Pam	Pyhin1
Rab7a	Wwc1
Phyhipl	Tyw3
Heatr5b	Lamtor3
Ache	Bst2
Entpd2	Man1c1
Agpat5	Dip2c
Cpne9	Hps3
Fxyd6	Snd1
Ptprn2	Men1
Alcam	Nacc2
Lamp2	Ankrd27
Sorbs2	Mta2
Ube2v2	Pts
Gmpr	Cdc123
Arhgap32	Fmo1
Csnk2a1	Frg1
Ube2o	Znf316;Zfp316
Stx1b	Rangap1
Stip1	Shisa6
Elmo2	Tardbp
Celsr2	Mybbp1a
Gabbr2	Riok2
Ppm1f	Map7d1

Prkcsb	Ears2
Hexb	Pena
Napa	Arhgap6
Atp2b4	Fadd
Rufy3	Dhtkd1
Avl9	Ammecr11
Cltb	Nfyb
Elmod2	Gm20547;Cfb
Ppp2r5e	Lias
Tmem163	Ipo13
Oxsr1	Lepre1
Arpc5	Aktip
Endod1	Postn
Rdh14	Nploc4
Gaa	Cd2ap
Gsn	Tomm7
Tdrkh	Eri3
Ehd1	Smg5
Mapk10	H6pd
Cpt1c	Alg10b
Kcnab2	Znf428;Zfp428
Slc44a2	Cox7a2
Exoc7	Sec61g
P4hb	Brd8
Plcl2	Ensa
Ablim2	Pomgnt2
Itsn1	Jmy
Psmc3	Golm1
Actr3	Hic2
Lasp1	Smarca2
Vti1b	Wdr34
Stx1a	Crot
Pesk2	Ppm1k
Bckdk	Acads
Mtch2	Prpf39
Erc1	Mien1
Ipo7	Myo7a
Rab1b	Rwdd1
Apoe	Tom111
Cntfr	Rexo1
Agfg1	Nol4
Ddhd2	Zmym2
Fmnl2	Mcee

Plcxd3	Ppp1r3g
Ckap5	Tmed7
Gltf	Kcnq2
Rab35	Lgi2
Hgs	Smad5
Slc25a44	Cplx3
Apmap	1810009A15Rik
Creld1	Nek7
Pafah1b2	1700112E06Rik
Cask	Sqle
Daam2	Isoc2b
Syn3	Aplp1
Gabrd	Tmem167a;Tmem167
Gnpda1	Sumf1
Acox1	Sclt1
Grik2	Nt5dc2
Cacna1e	Sh3pxd2a
Ppp2r2a	B630019K06Rik
Srr	Sumf2
Rps3	Pde7b
Reps2	Igsf11
Eif3i	Pcdh9
Atp6v1c1	Cdk19
Tspan7	Recql
Tmx2	Amz2
Rab11fip2	Idh3b
Hsph1	Helb
Tagln3	Hist3h2ba;Hist3h2bb
Anxa1	Phlda3
Atg9a	Ring1
Clpp	Neur14
Fn3k	Khsrp
Guk1	Enpep
Comtd1	Pa2g4
Rras2	Ttc19
Tmod2	Grtp1
Pcca	Plekha5
Susd2	Acbd5
Cacnb1	Tor1aip1
Dgkz	Rabif
Tmed9	Lyz1
Sncb	Cnot11
Ddah1	Fgfr1

Pacsin1	Wdyhv1
Ergic1	Khbyn
Dgkq	Plod1
Ctnnd1	Pcif1
Rpl27a	Pcdh17
Ptp4a1	Minos1
Mal2	Trpm3
Ampd2	Lrrc75a
Gsk3b	Mxra8
Igsf21	Znrf2
Hibch	Tmem151a
Cdip1	Shf
Vbp1	Taok2
Plxna4	Dennd6a
Spryd7	Hax1
Atg3	Matr3
Rab4b	Tmem38a
Hcn1	Cacna1c
Arhgap1	Hist2h2ab
Dctn4	Ccdc91
Plgrkt	Dcaf11
Acs11	Rab11b;Rab11a
Slc8a1	Pola1
Aldh4a1	Gnl2
Sars2	Aga
Ppp3cb	Eif3b
Syngn3	Thap11
Syt1	Igha
Tsc1	Acox3
Agap2	Crnk11
Ppp1cc	Igfbp5
Slc4a4	Ptdss2
Ubfd1	Fam50a
Huwe1	Rbp1
Akr1a1	Zc3h6
Ccdc6	Gorab
Prkacb	Tmtc3
Ndufs3	Cdv3
Gpd11	Rwdd2a
Ap2b1	Gstt1
Dmxl2	Limk1
Eif4h	Ugt1a6
Eif4a2	Tstd3

Oscpl	Lrrc73
Faah	Arap2
Rhog	Ctage5
Prkca	Helz2
Mgll	Serpib9
Efr3a	Vtn
Pdcd6	Eif2s2
Kif5c	Pbxip1
Pdp1	Desi2
Eppk1	Nudcd2
Rab14	Adap1
Bckdha	Pias4
Rgs8	Fam32a
Idh1	Txn
Ly6h	Zfp943
Me2	Rcc1
Gart	Lcorl
Ncam2	Adar
Itm2c	Nosip
Hsd17b1 1	Dlg5
Cntnap1	Sh3pxd2b
Gmcs	Xrcc4
Acot2	Serhl
Ddc	Muc5b
Vipas39	Plin4
Ermn	Stk25
Fry	Pex3
Ank3	Fam49a
Armc6	Hck
Atcay	Ppp2r3a
Ap3m1	Ppp1r1a
Aldh9a1	P4ha2
Ctnn	Ifi35
Stxbp1	Snrpa1
Zc2hc1a	Adcy3
Wdr44	Rai14
Ndufv2	Tomm34
Rasal1	Ppfia4
Ndufaf5	Ccar1
Cntn2	Abrac1
Tpp2	Ggact
Pkp4	H3f3a;H3f3c
Gstp1	Parl

Pefl	Rabep2
Cyb5a	Ociad2
Lrrc8a	Ndufaf7
Ppme1	Pask
Shisa9	Rad21
Slc25a22	Pvr
Dnajb6	Prex1
Lrrtm3	Tgfb1i1
Gnai2	Prmt7
Wwox	Rnf34
Vcl	Lipe
Pdxp	Bai3
Ywhaq	AW551984
Coq9	Cbln1
Ncald	Igf2
Aldh2	Disp2
Ywhah	Lsm6
Camsap3	Evi2b
Psmc1	Cnot1
Actr3b	Hnrnpa0
Ahcyl2	Anapc5
Ap1b1	Sybu
Clvs2	Cyb5r4
Arpc1a	Gatc
Ppm1e	Efna3
Snap91	Rraga
Rap1a	Gtf2a2
Astn1	Eif1b
Ppp5c	Fam193a
Psph	Stx18
Slc38a1	Znf687
Arih1	Itgal
Slc17a6	Crocc
Gad1	Mef2c
Omg	Ghdc
Gss	Sipa1l2
Pank4	Nhs12
Tmem33	Prelp
Arf2	Myo1c
Nrcam	Ccdc109b
Vps53	Coq7
Txndc5	Ilf2
Ttc39c	Zfp318



Camk1d	Ppif
Psmf1	Fam206a
Cdk5	Zdhhc21
Letmd1	Mcm7
Dlgap3	Ufl1
Strn4	Nup54
Arpc5l	Kdm1a
Grid1	Sestd1
Hepacam	Hist1h3b
Napb	Oxa1l
Ldhb	Rpl11;Gm10036
Cystm1	Thoc1
Sv2c	Nup107
Pdia3	Glt8d1
Syn1	Stat5b
Cadm4	Hmgn2
Sord	Ston2
Rab3gap1	Atg10
Zdhhc5	Stag1
Psm2	Tex264
Gmfb	Trub1
Iqsec1	Kars
Ipo5	Nudt2
Usp46	Mrpl53
Lrba	Igsf5;Pcp4
Pi4ka	Rps16
Snx7	Sema3a
Emd	Taf5
Cpne7	Tanc1
Pebp1	Atp5c1
Uba5	Fam69a
Tbc1d17	Pknx1
Arl6ip1	Mtntp8;mt-Atp8
Apeh	Ubac1
Ndel1	Gusb
Scamp1	Lman2l
Mdga2	Zc3h1.1a
Asl	Ralbp1
Grm7	Slc14a1
Rundc3a	Trmt10c
Aldh18a1	Mrpl54
Slc3a2	Iws1
Ppm1a	Zfp91

Mark2	Kif13a
Mlycd	Cbs
Efnb3	Reep1
Abhd3	Ppp1r13b
Prickle2	Ncapg
Zer1	Klkb1
Idh2	Tax1bp1
Katnal1	Clasrp
Purb	Mug1
Vps13c	Sec11a
Rpn1	Nipal4
Tbcel	Ecd
Dpp10	Tulp4
Cd38	Atox1
Dhodh	Phactr3
Cacnb3	Slc25a27
Acadsb	Pde5a
Ppp1cb	Tdg
Lpcat4	Exosc6
Slc7a5	Ctps2
Nrxn2	Fen1
Aprt	Uba6
Cyc1	Trrap
Adrbk2	Fundc1
Prkab2	Klhl11
Snta1	Mmp12
Acad9	Far1
Crmp1	Nfkb2
Mtap	Son
Gna11	Ift81
Ndufb11	Entpd7
Sgta	Irg1
Uggt1	Cdh1
Atp6v1g2	Rps26
Ubr4	Chadl
Lingo2	Camkmt
Dgkb	Kctd3
Gstm7	Ptpn1
Abhd6	Asb6
Smad1	Dolk
Anxa2	Syndig1
Map6	Nbn
Cc2d1a	Hist2h2ac;Hist2h2aa1;Hist1h2al

Dhrs7	Ptpn18
Rars2	Spryd4
Vac14	Sfmbt1
Vamp1	Slc35f3
Prrt3	Fam160a2
Rtn3	Ncoa2
Pgam5	Tbce
Abi1	Fhod3
Tenm2	Txn2
Pdlim5	Rrp12
Ndufa2	Fam98a
Nedd41	Triap1
Mri1	Iscu
Snx30	Qil1
Ankrd34b	Cpsf6
Cdh10	Ubxn7
Csde1	Ca11
Acsf3	Tfip11
Pak1	Ccdc47
Naca	Snrpd2;Gm5449
Kcnj10	Rftn1
Ubqln2	Slitrk4
Tsg101	Prdm8
Fyn	Mki67
Kirrel3	Eml6
Cops5	Arhgap20
Cadps	Tuba3a
Apoo	Cd59a
Ncstn	Dcp1a
Pccb	Lancl3
Fabp5	Gstt2
Pmpca	Gjc2
Asah1	Nudt18
Kcnma1	Gdf10
Gnb5	Psme3
Snx4	Cthrc1
Pcyt2	Elac1
Slc2a13	Ethe1
Ampd3	Sbds
Unc13b	Txlna
Actbl2	Trove2
Nck1	Tmem245
Lcp1	Pat11

Tubg2	Prpf4b
Slc6a9	Sugct
Arpc3	N6amt1
Cntn4	Armex4
Kctd12	Kdm2a
Surf1	Svil
Micu3	Epg5
Wdr7	Cyp27a1
Rtcb	Cd84
Hace1	Abcg1
Arg1	Traf6
Dnajb1	Dao
Tuba1a	Tacc1
Psmc3	Cnnm2
Ogt	Thoc3
Pdk3	Sec14l3
Cct3	Myh1
Palm	Ep400
Isoc1	BC037034
Bcap29	Btbd11
Rmnd1	Prkaa1
Nptx1	Fbxo22
Rab18	Urgcp
Txnrd1	Mcam
Dclk1	Pycr1
Arfip2	Polr2a
Tcp1	Cyp7b1
Gnal	Rprd1b
Vcpip1	Gsta3
Emc1	Tmco3
Arhgap23	I830012O16Rik
Ptpn5	Cmb1
Adam22	Rassf2
Tipr1	Ikbke
Mrps23	Cyth1
Diras1	Lsm14b
Ndufa6	Crbn
Acot9	Zc3h14
Bcl2l13	Chmp6
Gpr158	Brinp3
Abhd17a	Rab11fip1
Ndufc2	Tesk1
Neb1	Obp1a

Slc25a42	Bet1
Shank3	Kdsr
Nefh	Wdr4
Cdc37	Usp11
Svop	Nutf2
Gapdh	Myl12a
Aldh1a7	Hdac9
Ech1	Cntnap5a
Cplx2	Taf7
Gfra2	Gucy1a2
Cyld	Actl6b
Lrp1b	Caap1
Cox5a	Pfdn2
Armc8	Dnttip2
Sucla2	Jund
Cyp46a1	Ulk1
Atp2b2	Ophn1
Shisa7	Filip11
Commd3	Syne3
Gsta4	S100a13
Myo6	Afm
Arl15	AI837181;Bles03
Afg3l2	Eif4e2
Hecw2	Nkiras1
Gnas	Acad12
Jup	Taf10
Gja1	Ufd11
Erlin2	Prkab1
Lysmd2	Spg21
Tmem25	
6	E2f3
Fermt2	Nmnat3
Smyd5	Ints6
Eef1a2	Sdc4
Mfsd6	Col4a2
Slc6a6	Polr1d
Ndufaf3	Pes1
Rgs6	Wbscr27
Zzef1	Dclk2
Gria2	Rpl7
Chordc1	Rbm45
Hpcal1	Skiv2l
C2cd5	Sgcd
Hnrnph2	Fbxw11

Iglon5	Zbtb20
Lrrtm1	Dnal4
Ntrk3	Map9
Slc2a3	Commd2
Cops8	Atxn10
Gmppa	Ccdc120
Elfn2	Ctsh
Atg2b	Stk10
Abr	D3Ert751e
Slc6a17	Cdadc1
Cnnm1	Ankrd29
Pitrm1	Psd
Adam11	Wbscr17
Gabrg2	Apoc1
Dpysl4	Nat10
Gpd2	Map3k5
Dctn1	Pltp
Gmps	Tbc1d12
Ctnnd2	Sap30l
Sorcs3	Slit2
Ddx1	Obsl1
Fgf12	Slc16a3
Fibp	Cwc27
Stmn2	Tubb1
Ak5	Celf5
Glod4	Tfe3
Uqcrq	Gle1
Vps25	Dvl1
Ezr	Mcl1
Dync1li1	Uevld
Nap11l	Sirt1
Rps13	Nt5m
Tm9sf3	Dnajc13
Tesc	Fam163b
Grpel1	Grwd1
Eea1	Chka
Camkk2	Rsph1
Gdi2	Eif4a3;Gm8994
Cul2	Hmgn5
Ndufs1	Clasp1
Pde2a	Prkrip1
Gpm6b	Mrp142
Epb41	Gm16039

Mtmr1	Kiaa0513;6430548M08Rik
Nlgn2	Csrp3
Coq3	Apc2
Agk	Mndal
Pip4k2c	Syvn1
Exoc8	Nnt
Thns11	Plin2
Vsn11	Emc9
Git1	Phf5a
Acsl6	Ddx5
Opa1	Rgp1
Dbn1	Fam13c
Vps33b	Usp29
Hsp90aa1	Suds3
Arpc2	Myl4
Pnp	Akap10
Sh3gl1	Rpl39
Olfm2	Nabp2
Dlg1	Zfyve9
Them4	Frmd4a
Tmem30a	Xpo6
Sema7a	Fbl11
Brsk1	Flnb
Pthr2	Mrps7
Fkbp1a	Hpgds
Tppp3	Limch1
Mlec	Tmem177
Slc12a9	Upf3b
Thop1	Bach1
Slc12a2	Kin
Aldh111	Ict1
Jam3	Gpc5
Kalrn	Fstl5
Vkorc111	Ctdsp1
Ddx19a	Zfp384
Sugt1	Arhgap27
Vps26a	Fgf1
Hspa12a	Ebp
Dlat	BC100530
Cd200	Pam16
Gba2	Lonp2
Arcn1	Spata13
Aldh7a1	U2surp

Atp2a3	Serpinb6;Serpinb6a
Slk	Vav2
Mtx1	S100a9
Cyb5r1	Grk6
Iqcb1	Nup35
Gabbr2	Pdia5
Ist1	Timp3
Xpo1	F13a1
Coro1a	Foxk1
Sco1	Bpifa2
Epm2aip 1	Rpl8
Pdpr	Rab3il1
Nme1	Lsm2
Abcg2	Serpinf2
Slc25a11	Sap130
Lmbrd2	Sowaha
Uqcc1	Lmnb1
Caskin1	Sts
Wdr54	2310035C23Rik;Kiaa1468
Mtfr11	Stx5;Stx5a
Tmem65	H2afy2
C2cd2l	Lig3
Sipa111	Krit1
Mccc1	Peli1
Blvra	Arfip1
Erp29	Wdsub1
Ube2k	Smarcc2
Hsd1l	P2rx7
Rnpep	Ylpm1
Epn1	Nfat5
Rap1gap	Med17
Sdhd	Ostf1
Aqp4	Ebna1bp2
Cnr1	Rps4l
Lamtor1	AI848285
Bsn	Bcam
Lrtm2	Gtf3c3
Pde1b	Inip
Tbcb	Znf512
Dnajc5	Ktn1
Hk2	Ntper
Rab6a	Kiaa1109
Diras2	Pros1



Pik3r4	Ptbp2
Ncdn	Slc6a8
Pck2	Nell1
Psmb1	Smchd1
Synpr	Dpp9
Rhot1	Mthfd21
Atg16l1	Birc2
Twf2	Armc9
Ftl1	Scd2;Scd3
Hpcal4	Shoc2
Eif4b	Stk16
Maoa	Atp9b
Map1lc3a	Arhgef11
Vps51	Tbc1d1
Sv2a	Kdelc1
Ado	Slc15a3
Glud1	Ssb
Psmc7	Atxn3
Ephx2	H2-D1
S1pr1	Fars2
Cad	Gtpbp3
Actb	Pcnt
Eno1	Meaf6
Actr2	Ccrn4l
Prrt1	Neu1
Ap3b1	Arhgef4
Pip5k1b	Urb2
Slc4a8	Ubl7
Mpi	Sphk1
Adam10	Mettl1
Wdr1	Cplx1
Spq7	Mfge8
Nptxr	Tssc1
Ndufa13	Gfod2
Bdh1	Bbox1
Tpd52l1	Sh3bgrl3
Ndufa4	Epha3
Eef1b	Grid2ip
Ap1g1	Nono
Mem1	Zfyve28
Cacna1a	Serpinb10
Snx1	Mturn
Ap1m1	Ahsg

Usp15	Gid8
Eml5	Zfand6
Rapgef2	Aebp1
Klc1	Stard3
Mpst	Stt3b
Spes2	Ttc4
Pfn1	Lppr2
Ube3a	Agfg2
App	R3hdm2
Ndufa11	Notch2
Atp6v1a	Tmem214
Plxnd1	Cln2
Cct5	Hmgb1
Exoc3	Avp
Ndufb5	Ankrd44
Fah	Zfyve21
Basp1	Smardc1
Hip1r	2810408M09Rik
Cap2	Oas3
Dad1	Mt2
Fundc2	Ctnnb1
Fkbp4	Zfp62
Gng7	Hps5
Xpnpep1	Synj2
Mras	Dnajc24
Wdr13	Enpp4
Necab1	Gnptab
Sirt5	Hif1an
M6pr	Fcgr2
Tsc2	Sumo2
Ugp2	Prim1
Hspa8	Ctnna1
Tmem11	Igf2bp3
Agpat1	Cox20
Pcyox11	Rpl10
Kifap3	H1f0
Tnpo3	Alkbh8
Kif1a	Ddx20
Abl2	Lrrc4
Epb4112	Zc3hav11
Eif5a2	Elav14
Nap114	Fbn2
Kcna6	Tyw5

Itpa	Dkc1
Nme3	Pla2g15
Acsbg1	Hgsnat
Ciapi1	Znf207;Zfp207
Psmab	Gtf2f2
Tppp	Hist1h1d
Tfam	Ankrd13a
Cxadr	Btbd1
Acp1	Zfp292
Pgap1	Raph1
Ppp6r2	Unc80
Dbt	Mapkapk2
Armc10	U2af1
Ptpre	Mrpl23
Arhgap44	Golga4
Cdk17	Yipf3
Ical	Mthfr
Atpaf1	Dnm2
Upf1	Map2k7
Lrrc4c	Gabarapl1
Gng2	Serac1
Hadhb	Cd99
Man2c1	Tmem68
Etfdh	Mettl10
Ap3s2	Ube2f
Capza1	Cers2
Rragd	Ufsp2
Rnf14	Impdh1
Atp1b2	Rbm15b
Hmgcl	Rcsd1
S100a11	Psap
Anxa6	Frs3
Scrn1	Thra
Ric8a	Sfxn4
Pclo	Tra2b
Pip4k2a	Fut8
Nudt16	Aox1
Sparcl1	Cryba4
Rab5b	Grasp
Rock1	Samd4b
Slc25a24	Cog3
Abcd3	Ptpmt1
Lrrtm4	Dnajc9

Ndufaf1	Tmsb151;Tmsb15b2
Acadl	Pram1
Itfg1	Rpl22
Kctd8	Rpl36a
Rhoc	Sntb1
Prpsap1	Copz1
Ccdc127	Spcs3
Myo5b	Irf8
Hspa4l	Kcmf1
Syngap1	Sec62
Gria4	Pias2
Vwa5a	Cox17
Gpi	Ibtk
Dstn	Chchd4
Sdr39u1	Cdc26
Ppp1r21	Abcc1
Ssr4	Slc22a4
Cdc42ep4	Lypd1
Dip2a	Kifc2
Emc3	Mavs
Grhpr	Ccs
Extl2	Mina
Gclc	Atp5l
Dmtn	Tax1bp3
Auh	Dgkh
Trio	Aip
Cntnap4	Arnt2
Pnpla8	Fndc3a
Ap3d1	Ikkbg
Dock4	Telo2
Mog	Fam107a
Lypla2	Alpk1
Rdh11	Nt5c3b
Th	Stap1
Mrpl39	Xylt1
Nomo1	Ccdc93
Ndufs8	Vangl1
Snx16	Fkbp3
Dnajb11	Rpl18
Lin7b	Rfc5
Vcam1	Nrgn
Prdx5	Cnn2
Trim9	Lphn1

Adcy5	Map4k4
Itm2b	Zkscan1
Gad2	Eln
Pgd	Rab29
Ndufa8	Prpf8
Dync1i1	Rnf2
Flad1	Ptn
Akr1b1	Acbd3
Acaa2	Lrfn3
Itr3	Crtap
Enpp6	Scn8a
Nae1	Mboat2
Ddb1	Gcn111
Pgk1	Rit2
Oxr1	Cln5
Hspbp1	09-Sep
Trim2	Epb4.111
Gpx1	Specc1
Mblac2	Tsc22d1
Etfb	Tspan6
Clu	Mprip
Ufc1	Fam213a
Lhfp14	Mef2a
Canx	Pcdh10
Coq5	Stac2
Lrrc47	Ovca2
Timm44	Ppih
Kcnip2	Farp2
Emb	Uck11
Shank1	Plcb4
Abhd16a	Qars
Dlst	Cptp;Gltpd1
Uqcrc1	Spred3
Scn1b	Fxr1
Gabra4	Endog
Gfap	Rbmx11
Cadm2	Plekha7
Rps9	Ttc21b
Sh3gl3	Slc20a2
Fnbp1	Gan
Cpne5	Shd
Dlg3	Wdr18
Psm3	Pik3ap1

Efh1	Celf4
Eml2	Polb
Camk2g	Lamtor5
Phgdh	Mpp5
Nqo2	Acat3
Pdia6	Bzw1
Magi2	Wdfy2
Ralgapa1	Apc
Crym	Unc13d
Trappc12	Mrpl15
Slc25a1	Akap9
Arl3	Tsr1
Nceh1	Gls2
Rab2a	Serbp1
Zmpste24	Kptn
Slc2a1	Bcas2
Cep170b	Nvl
Eci2	Slitrk2
Scyl2	Rab3d
Serinc1	Tpm4
Rab31	Naa15
Enoph1	Kcnj3
Ranbp1	Tmed1
Dpysl2	Diablo
Mocs3	Dynlt3
Fnbp1	Ift122
Cdc42bp b	Cnnm4
Clybl	Cdc42ep2
Frrs11	Pex1
Tubgcp2	Rpgr
Rab8a	Syap1
Them6	Mon1a
Brcc3	Tmem55b
Tubb2b	Mmaa
Psd3	Slc1a5
Psmc9	Taf2
Scamp3	Snapin
Gspt1	Dtx3l
Nf1	Sema6a
Prmt5	Gm15800
Qdpr	Tab2
At12	Lrrc58
Pafah1b1	Ddx59

Rpl12	Wdr11
Sco2	Uimc1
Usp5	Phka2
Lmtk3	Myo10
Uhrf1bp1 1	Ugt8
Abcb7	Lhx2
Tln2	Ube2g2
Ak3	Ogdhl
Mpp1	Prkcq
Snph	Ireb2
Rab4a	Stmn4
Ube2l3	Uck2
Tmod1	Gstm4
Stxbp5l	Clptm1l
Cyb5r3	Kmt2d
Otub1	Tmsb4x
Blvrb	Nudt9
Sar1b	Ahnak2
Ak2	3110043O21Rik
Sarm1	Mob1a
Dctn3	Coro6
Hsd17b4	Dpp7
Smpd3	Ncapd2
Ermp1	Baalc
Psmc1	Rps11
Glo1	Snrpa;Gm5145
Ntrk2	Angel2
Dhrs7b	Mvb12a
Gpr37l1	Eif2b5
Trappc3	Wnk3
Tom1l2	Itfg3
Etfa	Gprasp2
Cend1	Pml
Stk24	Dcaf13
Vps4b	Rrp7a
Stt3a	C8a
Necab2	Phf3
Adam23	Sptlc1
Pick1	Atp11b
Spag9	Rbm28
Drd1	Krt36
Gabra1	Vldlr
Kcnc1	Ralgps1

Rac3	Ptgfrn
Arl8b	Mroh1
Mpp2	Isg15
Sec13	Zgpat
Vcan	Yap1
Stx8	Vrk2
Capns1	Serpinb6b
Dock3	Nudt12
Cacng4	Pcmt1
Rab3a	Pde1c
Magi1	Naaa
Macf1	Lurap1
Lyst	Ddx19b
Bcl2l1	Wipf1
Myo5a	Icam1
Cpd	Rqcd1
Eef2	Btd
Kcnip4	Lpar1
Ubqln1	Ptcd2
Atp6ap2	Ahsa2
Cry1l	Rbx1
Gpsm1	Rmdn2
Eif2s3x	Brix1
Srp54	Otub2
Rabggta	Ccdc22
Cct6a	Atp5j2
Ppfia3	Mex3d
Cops4	Taf9
Dst	Vstm2l
Cadm1	Nek9
Trnt1	Slc7a4
Plxna1	Kcnc2
Acbd6	Wdr62
Ttc7b	Setd1a
Ddx3x	Zc3hc1
Uqcrb	Crabp1
Flii	Dvl3
Pls3	Prkd1
Lrfr4	Snx25
Slc12a5	Gemin5
Begain	Ddx51
Ykt6	Aars2
Dlgap4	Nrbf2



Scn1a	Nudt4
Sh3glb1	Fam103a1;Gm10767
Cacna1b	Znf800;Zfp800
Mthfd11	Polr3f
Gprin3	Smarca4
Gak	Cntf
Psmc6	Mcf21
Wfs1	Palm2Akap2;Akap2
Ndufs7	Lcmt2
Coq6	Mcm4
Ndufa9	Col1a1
Pag1	Dynlrb2
Mrps27	Sec11c
Sort1	Glipr2
Tanc2	Ncf1
Shmt2	Tceb2
Syt17	P4htm
Ttc9b	Snx19
Lrpprc	Asns
Trim3	Ttbk1
Dcun1d3	Ppfia1
Mapre3	Kiaa0907
Ahcy	Pde4dip
Ndufs2	Atp5o
Fahd2	Rpl31
Akap5	Uhrf2
Grin1	Zyx
Gpx4	Nudt21
Rptor	Rgs10
Usp9x	Exosc8
Timm9	Casd1
Ubxn6	Atp5i
Katnb1	Klhdc4
Cdh2	Ncoa7
Vdac2	Rpl15;Gm10020
Chmp4b	Rab9a;Rab9
Gmppb	Gmeb1
Eif6	Sat2
Ddt	Pnlsr
Cacnb4	Sars
Bphl	Fbxl20
Ggt7	Fam21
Pygb	Kank1

Chrm4	Kcnn2
Nfs1	Man1b1
Dnaja3	Scn2a1
Aldh1l2	Hnrnpul1
Arhgap21	Kif3b
Epdr1	Hcfc1
Cct7	Unc119
Copb1	Faim
Slc9a7	Bend6
Dmwd	Klhl4
Vat1	Tbcc
Pik3r1	Rps24
Scamp5	Mrpl20
Acot1	Plg
Nisch	Morc3
Galc	Garnl3
Me3	Aldh1a2
Rab15	Spg11
Plxnb1	Magoh;Magohb
Nipsnap3 b	Sema4b
Lrrtm2	Smad3
Scn2b	Hnrnpr
Rhoa	Lpl
Ryr2	Zc3hav1
Mlst8	Vrk1
Gps1	Phf8
Prrt2	Gpt
Calb1	Slitrk5
Pgm211 GOLGA7 B	Lum Chrm3
Adh5	Serpine2
Agpat4	Naa16
Tubb4a	Ncor1
Mff	Tnfrsf21
Tomm20	Trak1
Mtor	Pthrhd1
Glul	Acsm4
L2hgdh	Fam129b
Epb4113	Mtfmt
Psma3	Itgb5
Vps29	Scubel
Clip1	Ccm2

Gspt2	Rac2
Tmem63	
b	Adcy2
Sncg	St3gal4
Vamp7	Nucb2
Pgm3	Gng12
Syt3	Cpeb3
Carm1	Gm20498
Gsr	Kctd5
Wipf3	Fam134c
Sult4a1	Klhdc2
Gas7	Fbxw9
Itgb8	Srsf1
Gprin1	Xrn2
Xpo7	Megf9
Git2	Dtx3
Ndufb10	Tfdp1
Aldh1b1	Hp
Tjp1	Rpa2
Rgs9	Fbln2
Ndufb4	Nop58
Pdhx	Xpo4
Mapk8	Usp35
Grin2a	Tia1
Nt5e	Pbrm1
Fam136a	Sap30
Stk32c	Gatad2a
Akr1b7	Chmp5
Tmem14	
3	Clstn3
Synj2bp	Helz
Psmb6	Med29
Rimbp2	Limd1
Map4	Lsm4
Sfxn1	Prps2
Bin1	Nsun5
Rap2b	Tcp1112
Srgap2	Anapc7
Arhgdia	Tcof1
Slc6a11	Cbln3
Napg	Yjefn3
Spr	Nwd1
Paics	Edc3
Rtn1	Supv311

Dgke	Cnot7
Slc30a9	Spns1
Adprh	Pggt1b
Itgam	15-Sep
Coa3	9930111J21Rik2
Myl12b	Zfp871
Gabra3	Pycrl
Acp6	Arsb
Prmt8	Sf3b2
Ap1m2	Slc39a6
Arf5	Gorasp1
Prkcg	Kcnh7
Dnm3	Ddx17
Acat1	Abca9
Coa7	Fuk
Tpi1	Ddn
Ap2s1	Gla
Cnksr2	Supt5h
Pkm	Mast3
Arhgef12	Rint1
Rgs20	Wars
Pdia4	Mmgt1
Ttc1	Ube2q1
Fbxo3	Leng8
Elmod1	Slc5a3
Psmc6	Anapc1
Rnf141	Nsrp1
Fbxo41	Itga7
Slc44a1	Ppp1r8
Osbpl2	Gng5
Mfn2	Lims1
Ptges3	Rcor1
Tmx1	Arsk
Alg2	5031439G07Rik
Pgam1	Cdk12
Chmp1a	Tbc1d23
Maob	Pid1
Slmap	Kif19;Kif19a
Wbp2	Pcdhgc5
Pex5l	Cep192
Negr1	Slu7
Sri	Stfa3
Tpbp	Adat3

Uchl5	Smg7
Itpka	Malt1
Setd7	Dhcr24
Timm13	Phldb1
Ca2	Anp32a
Sec23a	Aagab
Taok1	Runx1t1
Wdr48	Kpna4
Atp1a3	Slc25a45
Tkt	Stat3
Uso1	Lhpp
Pdpk1	Atp5a1
Vps13a	Pik3r2
Akr7a2	Nat9
Acaca	Enc1
Psm13	Eif3d
Ccny	Camk2n2
Cisd1	Enpp2
Vapa	Mmp17
Cdc42	Znf143
Slc25a3	Ptpn3
Ctbp1	Cdc42se2
Gap43	Aqr
Appl1	Ankfy1
Clcn3	N4bp1
Cpne3	Bbs1
Ndr3	Mcm3ap
Dip2b	ORF11;0610007P14Rik
Lrpap1	Smek2
Chkb	Maged2
Gba	Pih1d1
Cryz1	Pde3a
Mat2a	Fdx1
Clic1	Dpf2
Lmna	Fgd3
Pak2	Mrpl51
Sgtb	Nav1
Capn2	Arih2
Ywhab	Morn4
Timm50	Comm4
Map2k6	Bcar1
Cyfp1	Fbxo31
Sec31a	Cd93

Eif4e	Cdh7
Madd	Maea
Cacna2d2	Supt16;Supt16h
Sdhb	Cul9
Selenbp1	Syt13
Osbp	Gtf3c5
Pabpc1	Spata2
Gnl1	Fam84b
Nagk	Pik3c2a
Bcas3	Cyp2j9
Ssr1	Tatdn1
Pacs1	Wdr65
Inpp5a	Usp20
Dgki	Islr
Iqsec3	Supt71
Ttpal	Nup50
Unc13c	Rps6
Mmab	Nova1
Prkar2b	Dysf
Pde10a	Cyp4x1
Rab3c	Hat1
Dld	Zfyve26
Bcr	Daglb
Nit1	Lmnb2
Plscr3	Nyap1
Tab1	Cdc27
Slc1a6	Atg13
Lrrc57	Nsg1
Camk2b	Mettl9
Islr2	Krt84
Tagln2	Irf5
Grm2	Trim56
Bmpr2	Plexd2
Atad3	Uqcr11
Pafah1b3	Dus2
Ppa1	Cbr2
Pdhb	Rbm3
Ndufb8	Camsap1
Synrg	Mrpl41;Gm6434
Hpca	Ppm11
Acaa1a	Hdac3
Uqcrfs1	Gyg1;Gyg
Psmc2	Qsox2

Gabarapl2	Rtkn
Mdh2	Ppp1r12b
Ntng1	Plxdc2
Abcb9	Ddx39a
Pls1	Clpb
Cops6	Trip11
Atp9a	Klhl2
Crkl	Tubb6
Nol3	Chdh
Rpsa	Tlr2
Ap2a2	Actr5
Pted3	Dnph1
Cspg5	Ing4
Gk	Pcdha9
Ogdh	Vps41
Reps1	Zfyve19
Lgi1	Trmt61a
Pcyox1	Chd6
Anks1b	Map1lc3b
Itgav	Metap1
Araf	Akr1c14
Colla2	Tap2
Pdcd6ip	Chd3
Slc4a3	Nudt8
Tmx3	Rictor
Efr3b	Ints5
Agap1	Polr2i
Nsf	Adam17
Cpm	Pcbd1
Tm9sf2	Pxdn
Prkar1a	Pigt
Synj1	Ust
Aco1	Tmem63a
Snca	Il6st
Taldo1	Slc25a29
Hspa4	Eftud2
Gstm5	Rrp1b
Slc22a23	Vmp1
Rab23	Polr2h
Aldoa	Pop1
Tom1	Ppp4c
Pgls	2900011O08Rik
Actr10	C3

Exog	Itpkb
Akap7	Krt222
Myo18a	Fam110b
Cntnap2	Rgs17
Vat1l	Klc3
Npepps	Pdel
Wdr37	Fat1
Ccdc136	Ube2e3
Myadm	Gigyf2
Hccs	Dab2
Arhgef6	Pdf
Ank2	Calu
Anxa4	Lmf2
Plcg1	Rhot2;Gm20683
Ap3m2	Ptprg
Sec22b	Phip
Prkcd	Poldip3
Hip1	Plce1
Gnaz	Zeb2
Ldha	Klc4
Cul1	Eif2a
Eif4a1	Clcn7
Ppp1r9b	Gpx7
Ywhag	Gpam
Nefl	Golim4
Hsd17b1 2	Trmt1
Nif311	Trim30a
Syt7	Stk4
Gnb4	Prc1
Src	Yipf5
Slc25a46	Taf4a
Tbcd	Mta1
Vwa8	Gab1
Trappc9	Camlg
Me1	Rgs12
Neo1	Ca4;Car4
Crk	Coil
Atp6v0d1	Gpr50
Sgip1	Aaas
Exoc4	Carns1
Plec	Top3b
Hdhd2	Qpct
Ndufs5	Prpf40a



Dynll2	Slc13a3
Sigmar1	Man2b1
Prkaca	Ehhadh
Nudt3	Fam105a
Sptb	Mrpl4
Pgrmc1	Ggt1
Reep5	Dpm1
Gpc4	Gtf3c2
Pfkm	Rnf170
Pitpnb	BC005561
Nfasc	Tead1
Kpna3	Rpl30
Mbp	Mtm1
Ckmt1	Prpf6
Stk11	Rbm19
Gripap1	Phka1
Nadk2	Smn1
Cyb5b	Naa20
Wdfy3	Ypel5
Cmpk2	Ccpg1
Nlgn3	Ergic3
Ppp1r7	Abca3
Mtnd1	Ntsr1
Rgs7	Rps6kb2
Fh	Cisd2
Ptk2b	Chpf2
Eps15	Ube4a
Strn	Stx2
Pgp	Cmc2
Hspa1a	Fyb
Lrrc8b	Sardh
Nipsnap1	Poren
Vps16	Pnn
Ptprj	Fkbp2
Ppt1	Trappc6b
Samm50	Bfar
Sfxn3	Polr1e
Map2k4	Nup133
Nlgn1	Tbl2
Gnai1	Ap4s1
Ranbp9	Mrpl37
Ndufb9	2610301B20Rik
Zadh2	Mocos

Bpnt1	Cd82
Ptpna	Serpina3g
Slc23a2	Erap1
Pcmt1	Camk1
Cpne1	Apob
Kif5b	Brat1
Add2	Commd8
Sfn	Pak6
Vps36	St7
Prdx1	Dhx32
Tcp1111	Dcx
Dnm1	Wdr17
Ptprr	Tdrd3
Pycr2	Gtf2h1
Arfgef2	Zbp1
Rph3a	Msh3
Anxa11	Arhgap31
Arf3	Dner
St13	Stard13
Flot1	Abhd11
Slc25a14	Fam184b
Cse11	Nfix
Bnip3	Fbxl18
Ppp1r12a	Mrps17
Pdk1	Ctss
Ch11	Afap112
Sec14l2	Pcmt2
Atp6v0a2	Itgb1bp1
Slc17a7	Sorcs1
Lonp1	Mrps6
Hspa2	Srbd1
Prune2	Ctsz
Vamp3	Rela
Hadha	Pla2g4a
Neto1	Mrpl44
Gsg11	Zfp185;Znf185
Mecr	Ehbp111
Rbbp9	Dcun1d5
Gna13	Flrt2
Vta1	Et14;Skt
Nucb1	Slc25a19
Vt1a	B2m
Clasp2	Cox6a1

Arhgap26	Selo
Park7	Atp8a2
Abcb10	Sash1
Wasf1	Setd2
Bcan	Cx3cl1
Map1a	Cstf2
Prkcb	Prrc2b
Hebp1	Chrna4
Slc4a10	Ncapd3
Ppp2cb	Smpd13a
Phb	Rpl5
Ppp1r1b	Nfia
Sirt2	Gpc2
Psmal	Rlbp1
Jagn1	Slco1c1
Coasy	Echdc2
Slc18a2	Pianp
Oat	Vamp8
Apbb1	Actg1
Ncam1	Ppt2
Cttnbp2	Psen1
Hmox2	Nav2
Pex14	Cep68
Myh14	Tmub1
Gfod1	Gemin4
Rmdn3	Ptp4a3
Chp1	Hcfc2
Vps45	Poc1a
Esd	Acan
Tpm1	Gosr2
Dlgap1	Tep1
Gabbr1	Rrp1
Unc5a	Sirt3
Snx5	Lrp4
Ehd4	Mctp1
Snap25	Col4a5
Kcnab1	Ptpro
Arpc4	Cuedc1
Csnk2a2	Nup214
Nrxn1	Aarsd1
Sptbn1	Ttbk2
Nptn	Haus6
Slc1a4	Hexdc

Armc1	Edil3
Glrx	Pfdn4
Praf2	Rps6ka4
Slc6a7	Prrc1
Plxna3	Krt86
Chchd3	Kif1c
Gnao1	Arhgap9
Nampt	Cep97
Ccz1	Zcrb1
Stx7	Cyth4
Oxct1	Mest
Sorbs1	Rab39a
Ube2v1	Pygl
Gapvd1	Bpgm
Adsl	Snx12
F3	Nedd1
Ap3b2	Hen3
Taok3	Fam171b
Psmc4	Csnk1g3
Erc2	Ccdc101
Coro1c	Pik3ca
Ggps1	Phf2
Secpdh	Pold3
Bag6	Cetn2
Kcna1	Ascc3
Pin1	Phkg1
Fmnl3	Lsm7
Dock9	Lama5
Nt5c3a	Arhgef17
Kazn	Xrcc6bp1
Numb1	Apobec1
Slc16a1	Coro7
Ruvbl1	Krtap13-1
Dnajc6	Phc3
Rab21	Gpt2
Ipcef1	Akr1b10
Tmem43	C1qtnf5
Prkag1	Eral1
Sphk2	Ankh
Syt12	Ano6
Lamp1	Nf2
Nckip5d	2210016F16Rik
Ntm	Med19

Dnaja1	Spag1
Ganab	Fam102b
Slc29a1	Rab3ip
Fdps	U2af2
Rp2	Sdpr
Rheb	Os9
Tph2	Mpped2
Abi2	Myrf
Dmx11	Gramd1a
Ndufa5	Mycbp2
Lingo1	Tmem132e
Nt5dc3	Parva
Shroom2	Fdft1
Gldc	Themis2
Mcu	Cbx3
Gphn	Psmb8
Mrps22	Irf2bp1
Tmed10	Drap1
Tbc1d24	Timm8b
Olfm3	Sema6b
Faf2	Xkr7
Dcc	Acap3
Rhob	Cc2d1b
Atp1a1	Ago1
Impdh2	Bola3
Immt	Fhl2
Slc30a1	Mrpl28
Lypla1	Kank4
Cct2	Yy1
Idh3g	Zc3h4
Cox4i1	Rpl37a
Chchd6	Snrpg
Calb2	Fbxo30
Cds2	Mrps14
Txnrd2	Fam76b
Cdh11	Srsf11
Rab12	Nrd1
Pacsin2	G6pc3
Idi1	Rpl34
Clint1	Kng1
Paip1	Gatm
Mdp1	Trim28
Dcaf7	Smpx

Scn4b	S100a16
Doc2a	Dgcr14
Unc13a	Gas6
Pip4k2b	Dcaf8
Ywhae	Drg1
Dpp6	Dhx58
Arc	Tfdp2
Nudc	2010300C02Rik
Ndufaf2	Golga2
Crybb1	Des
Rock2	Slc35g2
Fech	Lrfr5
Tpm3	Kif4
Eif2s1	Serpina1c
Plcl1	Inpp5b
Wasl	Eml3
Akt3	Ids
Apool	Bdnf
Eef1a1	Smnnc1
Hnrnp1	Prkg1
Gria1	Arx
Psmc4	Znf22
Vapb	Ctuf1
Coro2b	Aven
Hprt1	Rbfox3
Nrxn3	Soat1
Atic	Mcm6
Cdk16	Rai1
Ppid	Pet112
Atp1b1	Cutc
Vps18	Plekho1
Vps11	Sp1
Vcp	Foxred1
Anxa7	Lrch3
Fasn	Rsrc1
Gpd1	Kdm5a
Sorcs2	Spef2
Mgst3	Exosc4
Grm8	Ap5z1
Pgs1	Myof
Uchl3	Nsmf
Stmn3	Cdh5
Sh2d5	Cradd

Scarb2	Npc1
Mtmr9	Pxn
Cd81	Fat3
Dync1li2	Bre
Pip5k1a	Lrrc8c
Nudt5	Med27
Iqsec2	Prcp
Gdi1	Spta1
Tsr2	Tfap2a
Atp2a2	Pdzd8
Dctn2	Cth
Dsp	Sqstm1
Capn5	C1qb
Slc8a2	Loh12cr1
Cnrip1	Tcea1
Cacybp	Reep2
Sirpa	Paccin3
Gsk3a	Jak1
Gabra5	Kcnh2
Rab8b	Obfc1
Ppp3ca	Tbc1d8
Phactr1	Nip7
Aldoc	Hnrnpa3
Calcoco1	Acss3
Tmem13	
2a	05-Mar
Dpysl5	Csl
Ankrd63	Colgalt1
Vps33a	Ankrd52
Pptc7	Srxn1
Aak1	Mobp
Ehd3	Sf3a1
Aplp2	Usp54
Slc10a4	Tspyl4
Camk2d	Nenf
Icam5	Sf1
Acad8	Pdcd4
Pdk2	Zmiz1
Tln1	Prkdc
Dlg2	Usp33
Syn2	Hsd17b8;H2-Ke6
Dtymk	Hdlbp
Grm1	Oxnad1
Rmnd5a	Snx14

Syt5	Slc25a32
Pfkip	Rbms3
Ppfia2	Rars
Gpm6a	Cbln4
Mpp6	Prkx
Rcan1	Fli1
Eci1	Hacl1
Eif31	Top2b
Tgm1	Rc3h1
Rab30	Unc79
Wnk2	Lbh
Snx27	Gpkow
Pacs2	Alg5
Ncan	Nrp2
Atp6v1f	Pcdh7
Gabrb1	Ccnt1
Slc25a5	Fam168a
Actn1	Akna
Mink1	Slc39a12
Abat	Morf4l2
Dlgap2	Azi2
Rims1	Csad
Rpl13	Pdap1
Strn3	Tmem2
Slc25a10	Kcnb1
G6pdx	Cox7a2l
Chn1	Acy1
Sh3gl2	Glyctk
C1ql3	Nr3c1
Rad23b	Lclat1
Psmb7	Yars2
Hsd12	Ercc5
Slc1a3	Kpna2
Sv2b	Impad1
Hsp90ab1	Hist1h2af;Hist1h2ab;Hist1h2ak;Hist1h2ah
Ephx1	Man2a2
Slc9a1	Dcps
Fmnl1	Ttll12
Chat	Col6a2
Stat1	Ormdl2
Dagla	Anapc2
Rab6b	02-Mar
Vps4a	Mphosph8



Nedd4	Cul7
Rps5	Cebpzos
Sik3	Znf24
Cbr3	Rpusd2
Nbea	Myo9a
Rdx	Fbrsl1
Syng1	Phykp1
Rab27b	Ptgs1
Blmh	Plekhh1
Slc24a4	Zic2
Cntn1	Exosc2
Mark1	Trpm7
Aldh1a1	Wdr20
Rpn2	Kras
Eif5a	Ccdc85b
Traf3	Atf2
Slc1a2	Cwf19l2
Hcn2	Elp6
Mag	Nsd1
Rogdi	Eif4ebp2
Cacng8	Taco1
Mapre1	Vars
Ttyh3	Rnmt
Uqcr10	Sec24c
Tenm1	Mkrm1
Cpt2	Gtpbp6
Vps35	Mapk14
Cfl2	Prdm2
Csmd1	Tbc1d8b
Sgsm1	Exosc9
Pip5k1c	Ppic
Suclg2	Nell2
Epn2	Syf2
Timm23	Nrn11
Aifm3	Pcp2
Ppox	Gfm2
Myh9	Pkn2
Gde1	Ptpn13
Ppp6c	Arfgap3
Ccdc51	Znf148
Lap3	Fam134b
Acyp1	Cfdp1
Psm14	Txlng

Rps6ka1	Mto1
Stoml2	St3gal6
Cpne8	Podxl
Apba1	Chuk
Nckap1	Cyp2a5
Grb2	Hnrnp11
Mpc2	Rhoq
Smcr8	Rgs7bp
Tsn	Prkrir
Kpnb1	Snrpd3
Btbd17	Fig4
Ahsa1	Arfrp1
Rab39b	Rpf2
Atp6v1h	Itga5
Mapk1	Eif4g1
Amph	Ankhd1
Nlgn4l	Dhx8
Aldh3a2	Aldh3b1
Nck2	Fez1
Nfu1	Pstpip1
Hspa9	Arhgap12
Tpd52	Nudt14
Ccdc177	Fntb
Ipo4	Cpsf1
Cdk14	Vps8
Il1rap11	Sec23b
Psmc7	Epb4.114b;Epb4114b
Ppp6r1	Bod11
Atp6v1g1	Sema6d
Sod1	Jakmip3
Ppp1ca	Map3k7
Tmem9b	Usp34
Rab5a	Smarcc1
Pura	Slmo1
Flna	Nek1
Tenm3	Supt6h
Mccc2	Fkbp1
Plxnc1	Serpina1a
Msra	Akt2
Flrt3	Plcb2
Pitpna	Eno3
Arhgap39	Celf2
Echdc1	Rbm38

Akap12	Pus7
Rps6ka3	Mrpl17
Dync1h1	Uba3
Mtfp1	Ildr2
Plaa	Ctnna3
Abhd10	Lrrn1
Prnp	Bnip1
Ctsd	Cxx1b
Cox6b1	Smarca5
Usp7	Msto1
Acat2	Pla2g6
Trim32	Rnf40
Scfd1	Mon2
Rap1gap2	Csf1r
Cd47	C530008M17Rik;Kiaa1211
Ckap4	Tex2
Slc18a3	Mvp
Epha4	Cpsf2
Smpdl3b	Cog4
Clcn6	Ero11
Cat	Kat8
Get4	Ank1
Slc25a4	Slc4a1
Psmb2	Hddc3
Fabp3	Ube3b
Csrp1	Slc5a6
Rapgef4	Rnf11
Rala	Hist1h2bc;Hist1h2bh
Cryab	Ninj1
Ptges2	Golt1b
Myl6	Tmed3
Hint1	Kifc5b
Cltc	Akt1s1
Padi2	Igsf1
Tpd52l2	Osbpl3
Ide	Tmem41b
Srm	Rbm26
Ube2n	Rae1
Nsfl1c	Glb11
Ahcy11	Abcb1a
Impa1	Aspscr1
Farp1	Pcf11
Pitpnc1	Tshz1

Sfxn5	Ighm
Adk	Mocs1
Ncln	Rpl23
Mtpn	Diexf
Sptan1	Ift46
Aldh5a1	Mcur1
Tpt1	Dennd4a
Acadm	Cspg4
Cyp2s1	Mknk1
Rab3gap2	Pgm1;Pgm2
Srpk2	Atg4c
Camkv	Dkk3
Lanc12	Sdf211
Wdr45	Dym
Dnpep	Cep131
Eps1511	Chst2
Prpsap2	Fubp3
Arf1	Wiz
Hadh	Pwp1
Atp6v1d	Hpx
Pcbp2	Dnajc8
Pepd	Thtpa
Stx4	Erbp4
Acadv1	Sphkap
Rftn2	Krtap15-1
Arl1	Smg9
Uqcrc2	Rpap1
Tmx4	Utp111
Atp2b1	Sepn1
Dynll1	Brd4
Rad23a	Tnip1
Rtn4	Slc27a2
Cep170	Ythdc2
Fhl1	Mipep
Afg3l1	Nole1
Capza2	Serpina3m
Hars2	Tmem14c
Sacm11	Lifr
Gfm1	Rrs1
Lysmd1	Atad2
Mareks	Thsd7a
Pmpcb	Zcchc8
Scn3b	Cdc34

Atp1b3	Kifc3
Strip2	Nol8
Mapk8ip3	Map6d1
Psme1	Plp
Ndufa7	Vav1
Opa3	Arhgap17
Actn2	Dock2
Dync1i2	Orm1
Oplah	Abca5
Cap1	Pcp41
Stub1	Saal1
Plcb1	Utp18
Rab5c	Tarsl2
Ppp3r1	Msi2
Prodh	Dnajc1
Rabep1	Dos
Tuba4a	Bloc1s5
Gnai3	Cd2bp2
Emc2	Zcchc11
Prkar1b	Naa10
Acot11	Rhpn2
Daam1	Ifi47
Dtnb	Higd2a
Rab10	Zbed5
Wdr77	Rps27l
Idh3a	Eif3f
Dnajb2	Sgsm2
Slc30a3	Lrrc16b
Cct4	Ifngr2
Glrx5	Khdrbs1
Timmdc1	Fetub
Pten	Gadd45gip1
Ndufv1	Ikbip
Cs	Kcnab3
Slc25a23	Dohh
Lin7c	Las11
Acot7	Mgea5
Klc2	Mpp7
Mtch1	AI607873
Adcy6	Smc2
Rac1	Gabra6
Thy1	Slc8a3
Arl2	Tmod3

Osbp110	Trappc10
Hibadh	Ephb3
Psmb4	Lyn
Tfrc	Noc2l
L1cam	Sdf2
Cops2	Eif5b
Kcnj4	Lym9
Psm1	Gfpt1
Dlg4	Pum1
Plcd1	Lppr1
Psm12	Mgat5
Cnp	Cast
Tmem126a	Med8
Dynlrb1	Tsc22d3
Cul3	Kdm6a
Gstm1	2010005H15Rik
Vps52	Lrrc49
Lsamp	Macro1
Glg1	Obp1b;Gm14743
Phyhip	Cd9
Snx6	Rilp
Gdap1	Rnd3
Rcn1	Slc15a4
Aldh6a1	Dixdc1
Cadm3	Trim14
Eif5	Kdm4c
Prdx6	Btk
Gabrb3	Adprh2
Nans	Krr1
Csnk1a1	Gm996
Becn1	Aldh16a1
Eif3e	Ifi204
Plch2	Pigk
Stmn1	Wdfy4
Olfm1	Ckm
Dusp3	S100a4
Zfyve1	Bloc1s1
Fam162a	Creg2
Atg7	Gk5
Uchl1	Mettl7a1
Rgs14	Btf3
Ak4	D430041D05Rik
Exoc6b	Fam20b

Sdha	Tbr1
Rin1	Pmvk
Slc25a51	Plch1
Lgals3	Sec1414
Tnik	Cbx6
Hspe1	Casc3
Htra2	Pnpla6
Dpysl3	Rims2
Gdpd5	Mad211
Evl	Eif3k
Decr1	1810043G02Rik
Cdc42bpa	Zhx2
Pdxk	Phpt1
Dnm11	Galnt2
Acs15	Hmgcs2
Myh10	Ssh3
Tubb2a	Copz2
Acly	Znf592
Cpne4	Zfp219
Prkce	Pxmp2
Lpgat1	Sepp1
Osbp18	Siglec1
Slc7a8	Fam63b
Gnb2	Arid1a
Fam131b	Aar2
Csmd3	Aamp
Map1s	Ilk
Alad	Lym7
Sdk2	Med10
Etf1	Rbp4
Sdhc	Wdr81
Ppp2r1b	Slc2a6
Trappc11	Luc712
Dhrs1	Cmtm5
Acsf2	Zdhhc3
Ttyh1	Kcnd3
Itgb1	Dennd5b
Gls	Uhrf1bp1
Clta	Elavl1
Adck1	Ldb1
Dnaja4	Rngtt
Nit2	Kirrel
Fscn1	Zfp462

Cpne6	Mrpl18
Slc6a3	Diap2;Diaph2
Cab39	Rpl23a
Ppp2r5a	Hrsp12
Mark3	Med12
Vdac3	Rab27a
Ppm1b	Cecr6
Brsk2	Als2
Ddx3y	Cdc42ep1
Ywhaz	Uba7
Ddost	Arpin
Atad1	Epb4.1
Mtx2	Rfc2
Grm5	Gltscr1
My19	Snrpe
Tubb5	Dph6
Fam114a 2	Zswim8
Ralb	Rabl6
Dtna	2310061I04Rik
Slc25a12	Sh3bp51
Lamp5	Esf1
Twf1	Samsn1
Denr	Gnpnat1
Kcnd2	Lats1
Gstz1	Smarce1
Skp1	Slfn5
Fam210a	Mkl2
Smad2	Insr
Add1	Wdr35
Eno2	Plekhf1
Nipa1	Limd2
Efh2	Stk3
Slc5a7	Srp72
Cul5	Ddx24
Rragc	Snx9
Iba57	Chrac1
Ubtd2	Kct2
Nwd2	Itih2
Gdap1l1	Stradb
Slc9a3r1	Srsf6
Clvs1	Rsph4a
Camkk1	Zfml;Znf638
Rap1b	Gpr108



Atp8a1	Ppp1r10
Psmc8	Mrps12
Tbrg4	Mrps2
Mob4	Slc1a1
Sbf1	Tor1aip2
Slc7a14	Prpf4
Ola1	Nid1
Gda	Inf2
Ddi2	Ubr7
Stx12	Der11
Ndufb6	Ankrd40
Ttc9	Plod2
Exoc2	Ubl3
Ndufa10	Plcg2
Got2	Ppap2b
Acap2	Degs1
Hapln1	Zfand2b
Cox5b	Klhl8
Ptpn	Mrpl11
Rpl3	Rpp38
Pfn2	mt-Co3
Fis1	Slc9a3r2
Arf6	Fus
Bsg	Rnf220
Ptpnf	Nup12
Mif	Micall1
Stk39	Nbeal1
Itp2	Rpl14
Arhgef9	Hectd1
Ndufa3	Cln5
Bcs11	Fam192a
Inpp1	Mbd3
Gpc1	Pin4
Faim2	Rgs19
Ptp4a2	Tial1
Stx3	Csmc2
Atp6v1b2	Tmem35
Ndufa12	Eif3m
Lxn	Tor1a
Anxa5	Wdr19
Pygm	Mcmcp
Phb2	Tnrc6c
Gria3	Krt8

Usp24	Rchy1
Psm5	RBM8;Rbm8a
Ipo9	Atp6v0d2
Bsdc1	Rbm12;Gm28036
Iars2	Rbm5
Letm1	Shmt1
Echs1	Ing3
Slc27a4	Ksr2
Ppp6r3	Hexim1
Mcts1	Fes
Hk1	Tceal5
Ptprd	Hmbs
Usp14	Atp1a4
Cdh13	Chd8
Lactb	Mrps28
Scrn3	Tbc1d10b
Fsd11	Ppp1r17
Enah	6330403A02Rik
Syp	Tmem87a
Homer1	Ttc8
Bag5	Adnp2
Ap3s1	Cars2
Slc25a40	Smpd1
Cbr1	Robo1
Actr1b	Matn4
Cotl1	Peak1
Ctsb	Rpl7l1
	Irak1
	Champ1
	Fbxo6
	Nras
	Plxdc1
	Stk38
	Tjp2
	Trpc4
	Ube2b
	Ccdc132
	Rbbp4
	Cand2
	Rundc3b
	Dnajb5
	Polr2f
	Nicn1

Gfra1  
Pom121  
Dok1  
Erf  
Prpf19  
Ifi205b  
Ints3  
Hnrnpk;Gm7964  
Tnks  
Vars2  
Nos1ap  
Abcc5  
Rgl3  
Wdr59  
Coprs  
Erlec1  
Tapt1  
Bcl11b  
Pcyt1b  
Nup93  
Mark4  
Sik2  
Thbs1  
Stat6  
Ascc1  
Cox7a1  
Flcn  
Cdc40  
Fam114a1  
Eif1a;Gm8300;Gm2016;Gm21936;Gm  
2035  
Fam210b  
Zbtb43  
Gskip  
Tle4  
Narfl  
Rsu1  
Gcsh  
Coa6  
Dnajc17  
Lsp1  
Slc9a9  
Tpm3-rs7  
Dync2h1

Zdhhc13  
Col4a3bp  
Hopx  
Ap4b1  
Bag4  
Noc4l  
Wdr45b  
Nucks1  
Itgb4  
Rbl2  
Amacr  
Dcaf6  
Arhgef33  
Pja1  
Scrn2  
Rasa4  
Ifit3  
Serp7  
Cbx1  
Ddr1  
Rcvtb2  
Dph1  
Arid4a  
Large  
Tbc1d15  
Tns1  
Fkbp1b  
Htra1  
Kank2  
Kxd1;Uba52  
Acad11  
Rbfox2  
Serpib9b  
Cd151  
Zwilch  
Spin1  
Rps15a  
Snrnp200  
Zfp407  
Dus31  
Usp19  
Suox  
Mrps10

Eif2b1  
Arhgef28  
Frs2  
Mapk9  
Eomes  
Cep250  
Ncf4  
Ctsl  
Ipo11  
Dock8  
Minpp1  
Ccdc124  
Cycs;Gm10108  
Hdac5  
Fabp7  
Lym5  
Npr13  
Osbpl5  
Bin2  
Cpox  
Yeats2  
Synpo2  
Spp1  
Akap13  
Sbf2  
Scgn  
Cntn6  
Serpina1e  
Inpp5d  
Ednrb  
Enpp1  
Ranbp10  
Commd6  
Apba2  
Snrpb2  
Pdzn3  
Nup85  
Ttc27  
Hbbt1;Hbb-bs  
Trim33  
Fam175b  
Sf3b6  
Lamb2

Rb1cc1  
Cog6  
Amigo1  
Dido1  
Tsnax  
Kdm5c  
Mrps18a  
Rabac1  
Cfh  
Ada  
Cdk15  
Cox8a  
Snf8  
Mrps18c  
Rpl35a  
Ddx46  
Mrpl47  
Mia3  
Syncrip  
Slc7a7  
Nfya  
Psme4  
Swi5  
Fabp4  
Rasip1  
Sox5  
Abcf2  
Mib1  
B3gnt1  
Esam  
Ranbp3  
Csnk1g1  
Wwp1  
Optn  
Irs2  
Stim2  
Mb21d2  
Ano10  
Clstn1  
Polr1a  
Tubgcp3  
Rbm8a  
Mnat1

Hm13;H13

Ankrd11

Smarcal1

Akap11

Afp

Psmg4

Ctsc

Pcdhga9

Elov14

Dpy19l3

C330007P06Rik

Ngly1

Mtif3

Pank2

Thada

Dbi

Nifk

Scfd2

Atp5f1

Ephb1

Lrrfip1

Pcdhb1

Hook3

Rem2

9230110C19Rik

Ano8

Ddx18

Cd99l2

Ldhd

Higd1a

Usp25

D6Wsu163e

Gemin2

Ppwd1

Slc29a2

Rps15

Arhgef38

Cep41

Seh1l

Spryd3

Lsm5

Fau

Try10

Ptprc  
Nars  
Vamp4  
Pcdhb20  
Cdk5r1  
Etnk1  
Chtf8  
Klhl42  
Sbno1  
Eif4enif1  
Snx10  
Iars  
Cdc73  
Pkig  
Vps9d1  
Slc25a17  
Trim47  
Pomgnt1  
Tmem209  
Plrg1  
Mterf2  
Cog1  
Mrps36  
Kdm3b  
Abtb2  
Fstl1  
Parp9  
Palm3  
Hnmt  
Pcbp3  
Rasgrf1  
D17Wsu104e  
Gm9242;Hnrmpa3;Gm6793  
Mrpl2  
Hnrnpl  
Ppcdc  
Ssbp1  
Tomm70a  
Klhl22  
Jph1  
Fdx1  
Tefm  
Nop16



Sympk  
Msmo1  
Snrpd1  
Flywch2  
Lppr3  
Vwa1  
Gtpbp8  
Snx32  
Atp5e  
Znf536  
Tgfbr3  
Psme2

Kiaa1429;1110037F02Rik

Hspa14  
Spred2  
Trmt6  
Sec22a  
Galk2  
Dhdh  
Tbp11  
Golgb1  
Adcy8  
Pded2  
Cdk11b  
Llg12  
Dusp15  
Arl10  
Smarcad1  
Scn3a  
Ica11  
Nanp  
Prex2  
Shc1  
Phf21a  
Agbl4  
Gjb6  
Noc31

4933434E20Rik

Med22  
Plekha1  
Natd1  
Npr2  
Tmem261

Tulp3  
Cdk2ap1  
Lss  
Supt4h1a;Supt4h1b  
Acyp2  
Alg13  
Sin3b  
Timm21  
Nsun6  
Btbd2  
Ftsj3  
Stard7  
Pdgfra  
Ppip5k2  
Srpk1  
Timm17a  
Sqrdl  
Ehbp1  
Inpp5k  
Mapkapk5  
Gopc  
Rspry1  
Pnck  
Epcam  
Rps18;Gm10260  
Ndst1  
Bbs4  
Cpsf4  
Bysl  
Acss1  
Parp14  
D1Ert622e  
Cpa3  
Scoc  
Rasd2  
Klk6  
Ttc13  
Epn3  
Rnf25  
Xrcc5  
Oasl2  
Mtss1l  
Dennd4c

Map2k3  
Sme5  
Usp38  
Coro2a  
Slc12a4  
Pld2  
Gng13  
Ptma  
Armex3  
Rbks  
Gtde1  
Tars  
Gipc2  
Bag2  
Lgals9  
Fmod  
Nfatc1  
Anp32e  
Adrm1;Gm9774  
Slc43a2  
Ptrf  
Mbnl2  
Pfas  
08-Sep  
Cdkal1  
Prmt9;Prmt10  
Glcc1  
Gtf2i  
Ces1c  
mt-Nd4;Mtnd4  
Usf1  
Smarb1  
Ankrd50  
Abcc3  
Hm13  
Rnaseh2a  
Faap100  
Adam8  
Abcc8  
Mapk8ip2  
Xylb  
Fam98c  
Itga3

Gcc1  
Jmjd6  
Homer2  
Mrps25  
Dennd2a  
Puf60  
Wdr46  
Fam65a  
Ercc3  
Hdgfrp3  
Prps111  
Abhd17c  
Gga2  
Emc7  
Sf3a3  
Dgkd  
Heatr1  
Faf1  
Fermt3  
Hnrnpab  
Abi3  
Inpp5f  
Tbc1d5  
G3bp2  
Pcm1  
Mical1  
Bcl9  
Ston1  
Otud4  
Aim1  
Lzic  
Ablim3  
Shroom3  
Mettl17  
Cd44  
Ncoa5  
Fuca1  
Palld  
Nup160  
Gramd4  
Svip  
Nars2  
Ugdh

Plekhd1  
Pold1  
Atg101  
Hhat1  
Ints9  
Smc4  
Dnajc3  
Smc1a  
Lnp  
Pde4a  
Wnk1  
Fkbp10  
Ifi202  
Ccdc97  
Col6a3  
Ppie  
Rhbdfl  
Trim16  
U2af114  
Rnf126  
Bicd1  
ptplad1  
Sh2b1  
Nol11  
Ppp1r16b  
Mak16  
Gucy1a3  
Uqcrh  
Wdr91  
Peg3  
Pigo  
Rcan2  
Sumo3  
Haghl  
Trim65  
Pnmal2  
Pex6  
Unc5c  
Cdh19  
Msln1  
Arhgef26  
Galnt16  
Fam188b

Tmem259  
Elov11  
Naa30  
Osbp111  
Sun1  
Mfsd4  
Adck4  
Gm20521  
Itga2b  
Neu3  
Tmem181a  
Zfp11  
Cherp  
Wipi2  
Chd11  
Lpin2  
Pdlim7  
Atp5h;Gm10250  
Pex13  
Ubqln4  
Scrg1  
Ppil2  
Shprh  
Brd2  
Ddx55  
Rnaset2  
Ccdc88b  
Srgap1  
Sst  
Habp4  
Klhl25  
Lars  
Fdxr  
Pars2  
Vps37c  
Usp31  
Polg2  
Cops7b  
Ngdn  
2010107G23Rik  
Ssh1  
Casq2  
Ctnbp2nl

Akap81  
Rps29  
Dhps  
Inpp1  
Txndc16  
Nxn  
Seps2  
Krtap6-1;Krtap6-5;Gm10229  
Lage3  
Rbm17  
Myo1e  
Serpinc1  
Heph  
Gn13  
Serpina3k  
Fam96b  
Ubtf  
Abca7  
Lipt2  
Ccdc58  
Phf14  
Tgoln1;Tgoln2  
Hnrnpu  
Igsf3  
Rrm1  
Tgfbr2  
Tp53bp2;Trp53bp2  
Naga  
Myh11  
Ppp2r4  
Ptms  
Trim35  
Pnkp  
Tgfbrap1  
Arhgap5  
Usp53  
Tomm5  
Sugp1  
Ythdf2  
Krt76  
Gbp5  
Slirp  
Serpib2

Dcxr  
Ssrp1  
Bloc1s3  
Usf2  
Ppp1r3d  
Bms1  
Crlf3  
Dpp4  
Nckap11  
Itih4  
Unc45a  
Rnf31  
Pan3  
Nol6  
Srsf4  
Ms4a15  
Mkln1  
Lrrk2  
Grip2  
Cdc16  
Sfswap  
Tmed5  
Bri3bp  
Def6  
Dolpp1  
Wbp4  
Lrrc41  
Mtmr6  
Usp48  
Chst14  
Clec4a1  
Ccsap  
Vprbp  
Nek4  
Lrrc14  
Fuom  
Vcpkmt  
Ubap2  
Cav2  
Grsf1  
Nt5c1a  
Ttc9c  
Rin2



Rab7b;5430435G22Rik

Gkap1

Dr1

Ube2i

Mtnr10

Sorbs3

Srrm1

Cd3eap

Mettl13

Prosc

Scaf11

Sptlc2

Rybp

Bbs9

Wdr33

Pcdh1

Mon1b

Alg11

Apobr

Here3

Cept1

Gm20390;Nme2

St5

Acta2;Actg2

Stk11ip

Gdpd2

Psd4

Fcrls

Npm1;Gm5611

Mcm3

Max

Grm4

Slc41a3

Glx2

Lsg1

Acsl4

Utp20

Myo1b

Dctn6

Fads1

Ggh

Arl6

Spon1

Rnaseh2c  
Lgi3  
Ddx52  
Gbp7  
Tprg11;Tprgl  
Ralgapb  
Tmed8  
Snrpb;Snrpn  
Pcdh8  
Snx24  
Ppp4r2  
Uri1  
Scn7a  
Kcnj2  
Cnot4  
Mlip  
Utrn  
Serpib1b  
Rbm22  
Hscb  
Pnpt1  
Dzank1  
Cerk  
Tomm6  
Pole3  
Snrk  
Fam81a  
Riok3  
Arl5a  
Vangl2  
Dock11  
Meis1  
Adal  
Ppp1r37  
Zc3h12b  
Tceal3  
Cfbf  
Fkbp9  
Cstb  
Ccp110  
Tfcp2  
Tmcc1  
Selt

Atad5  
Glyr1  
Sh3d19  
Fnbp4  
Xxylt1  
Ppp1r14b  
Brd9  
Nsa2  
Moap1  
Rpp14  
Cx3cr1  
Ptd1  
Dag1  
Pnk1  
Ppig  
Nedd8  
Fam49b  
Rnaseh2b  
Rragb  
Pcdhgb6  
Wdfy1  
Acox2  
Smyd2  
Eif3h  
Med14  
Tmem106b  
Cggbp1  
Ssr3  
Fbp1  
Szrd1  
Bcas1  
Serp1b8  
Aif1  
Nudcd3  
Cnpy2  
Lztf1  
Ep300  
Lrrc59  
Srsf9  
Hapln4  
Prdx4  
Cpeb4

Atf7;Gm28047

Hlcs  
Tns3  
Gatsl2  
Ldb3  
Tmtc4  
Trim67  
Sfr1  
Nexn  
Rfc4  
Jakmip1  
Mdm1  
Cpsf31  
H2-Q10  
Lphn2  
Plekhb2  
Cartpt  
Slc31a1  
C2cd2  
Tnks1bp1  
Rab34  
Creld2  
Xylt2  
Sdk1  
Sh2b2  
Arrb2  
Mt1  
Dhrs11  
Lars2  
Atrn  
Prom1  
Snx18  
Rps8  
Rcc2  
Rdh10  
Upf2  
Dhrs13  
Stag2  
Sdf4  
Ccdc32  
Gne  
Fa2h  
Exosc10  
Prph

Spred1  
Mtpap  
Nr2c2  
Lemd3  
Dimt1  
Kcna5  
Gars  
Phf10  
Nab2  
Znf423;Zfp423  
Sipa13  
Tab3  
Fkbp15  
Smc6  
Herpud2  
Cmas  
Scaf1  
Npl  
Cenpv  
Banf1  
Raly1  
Trpc4ap  
Rapgef11  
Ilf3  
Reln  
Prkci  
Camk2n1  
Lpcat3  
Rpl26  
Gpc6  
Smad4  
Rer1  
Nmd3  
Papss2  
Usp30  
Slc15a2  
Gas2l1  
Gng11  
Cyhr1  
Msrb2  
Trappc21  
Mtmr3  
mt-Nd2;Mtnd2

Tnk2  
Rb1  
Cdk1  
Ncaph  
Decr2  
Ube2g1  
Stk32a  
Wrb  
Fastkd2  
Nsun2  
Cope  
Naa38  
Anp32b  
Tuba1b  
Fam76a  
Emc8  
FAM120A  
Jak2  
Arsa  
Ghitm  
Strip1  
Mtg1  
Sms  
Dhx37  
Bmp2k  
Uros  
Elavl2  
Taf6  
Eif4g3  
Opcml  
Pet100  
P4ha1  
Rnps1;Gm9825  
Phyh  
Rps19  
Pmm2  
Srrm2  
Nfate2  
Ankib1  
Tjap1  
Itfg2  
Kiaa1549;D630045J12Rik  
Evi2a

Rbpj  
Rnf20  
Avil  
Oasl1  
Dusp12  
Srp19  
Klhl6  
Thoc2  
Gm2a  
Ece1  
Ighg2c  
Pdcl3  
Fcgrt  
Nup153  
Nfyc  
Bmi1  
Usp12  
Commd1;Gm28048  
Anapc4  
Lamc1  
07-Sep  
Kiaa1432;C030046E11Rik  
Wdr41  
Arsg  
Psmb10  
Dnmt1  
Fbln5  
Gpalpp1  
Smg8  
Smarca1  
Jph3  
Kiaa0020  
Ath11  
Atp10d  
Syk  
Trmt11  
Ss18l1  
Traf7  
Sos1  
Dcp1b  
Slitrk1  
Pon3  
Nudt19

Zcchc6  
Gstt3  
Mllt4  
Atp11a  
Vezf1  
Itga1  
Phkb  
Chmp7  
Tmem205  
Ccar2  
Fam185a  
Olig1  
Parp12  
Tmem246  
Tnfaip813  
Nup205  
Wwc2  
Dnaaf3  
Mtr  
Sdsl  
Vil1  
Csdc2  
Dnajb14  
Pard3b  
Cldn10  
Plcd3  
Trim23  
Mrpl13  
Cnn3  
Crte3  
Ccde23  
Luzp1  
Phospho2  
Msr1  
Maged1  
Mtd5;mt-Nd5  
Fip111  
Myef2  
Brap  
Osbp17  
Sf3b4  
Odf2  
Casp6



Adcy1  
Ift80  
Rhof  
Tmem56  
Agps  
Pds5b  
Rnf130  
B4galt3  
Cda  
Napepld  
Fyttl1  
Fryl  
Kat7  
Tlde1  
Entpd6  
Nhp2  
Phactr4  
Smim8  
Fam219a  
Exosc5  
Med25  
Ighg1  
Polr3b  
Pde6d  
Fam98b  
Mvk  
Mapk8ip1  
Clpx  
Uhrf1  
Ddx25  
Parp4  
Pkp3  
Slc25a16  
Asfla  
Iah1  
Arl6ip4  
Tnpo2  
Ccde90b  
Sall2  
Larp1  
Fap  
Ly75  
Polr1c

Lrrc40  
Sdc3  
Plat  
Rpl9  
Prpf38b  
Rps17  
Amt  
Fibcd1  
Paox  
Aatf  
Rere  
Sod3  
Zscan21  
Metap2  
Mul1  
Pfkfb2  
Ttl  
Ube2d1  
Suz12  
Cluh  
Ftsj1  
Yrdc  
Gpr124  
Asic4  
Aimp2  
Noa1  
Naa25  
S100a6  
Cald1  
Tmfl  
Panx1  
Nrbp1  
Ubr1  
Emc10  
Ica;1300017J02Rik  
Pgm5  
Rps20  
Tfg  
Nup62  
Ca10;Car10  
Psmg1  
Eif2b3  
Amdhd1

Ptgis  
Lsm3  
Clmn  
Fn1  
Mex3a  
Golp3  
Rusc2  
Polr3d  
Rabl3  
Creb1  
Ulk3  
Cyb5d2  
Nfkb1  
Dvl2  
Copg1  
Ptgr2  
Slc26a2  
2810428I15Rik  
Zfp651  
Cd109  
Mecp2  
Rpl36  
Kctd12b  
Nop2  
Ipo8  
Npep11  
Ptpn4  
Zdhhc20  
Carkd  
Gpr162  
Lman1  
Sf3b1  
Zfp759  
Cdkn1b  
Smap;1110004F10Rik  
Sgpl1  
Mcm2  
Dnaje10  
Kiaa2013  
Mgat1  
Arl2bp  
Terf2  
Trim36

Tgfb2  
Rbm42  
Celsr3  
Elof1  
Ncoa3  
Cul4b  
Wasf2  
Thoc6  
Rtn4rl1  
Tecpr2  
Bai2  
Carhsp1  
Nfrkb  
Tdrd7  
Rsrc2  
Esys2  
Secisbp2  
Zbtb21  
Lztr1  
Mrpl9  
Ip6k1  
Nhlrc2  
Cmip  
Stxbp4  
Pkib  
Gsdmde1  
Fcgr1  
D17h6s53e  
Ifit1  
Lamb1  
Pvr12  
Rpa3  
Caskin2  
Mrps18b  
Hspb8  
Pja2  
Kctd14  
B3galnt1  
Ptprt  
Toe1  
Mrps34  
Hdac6  
Afap1

Cd34  
Itch  
Ppp2r2d  
Wdr70  
Baz1b  
Tbc1d13  
Ankmy2  
Ifitm3  
Fbxo21  
Pcid2  
Tbxas1  
Bub3  
Umps  
Rsph9  
Tnfaip8l2  
Ankle2  
Cdh15  
Hist1h4a  
Rpl10a  
Rwdd4;Rwdd4a  
Rbbp7  
Rgl2  
Foxg1  
Qtrtd1  
Bud31  
Mrc1  
Pofut1  
Cd180  
Spock1  
Dap  
Ift140  
Bbs2  
Alkbh3  
Lrfr1  
Abcd1  
Ndufaf6  
Josd2  
Tacc2  
Pfdn5  
Rps27  
Slc7a6os  
Tbc1d16  
Utp14a

Zdhhc17  
Dicer1  
Gh1  
Ptpm  
Chm  
Lyplal1  
Zmat2  
Srpr  
Ptpn12  
Atxn2l  
Serpinf1  
Zc3h13  
Atr  
Magee2  
P33monox;4833439L19Rik  
Ca3  
Tgm2  
Polr2e  
Cirh1a  
Hmg20a  
Pomk  
Spcs1  
Heatr2  
Zfyve20  
Gm561  
Slc7a11  
Tusc5  
Ift172  
Anpep  
Tor4a  
Arap1  
Slc25a35  
Chid1  
Frmd7  
Ephb2  
S100b  
Mov10  
Chd7  
Nat2  
Man1a1  
Nubp2  
Matn2  
Sema3c

Shc3  
Snrnp70  
Oas1a  
Dck  
Serinc3  
Mthfd2  
Strada  
Commd10  
Mea1  
Erh  
Dazap1  
Zmynd8  
Gnpda2  
Lamtor4  
Ap5b1  
Fam57b  
Snrpc  
Mrpl24  
Snrnp27  
Nrip3  
Ext2  
Fhit  
Eif3j1;Eif3j2  
Igf1r  
Cdk9  
Pik3cg  
Arhgef40  
Nprl2  
Kbtbd3  
Adarb1  
Col3a1  
Fcho2  
Rpl17  
Map4k3  
Trit1  
Ing1  
Gm3839  
Adssl1  
Ablim1  
Mrpl32  
Chn2  
Chchd1  
Srsf7

Ppp2r5d  
Dok4  
Polr2d  
Dera  
Maneal  
Tpgs1  
Pld4  
Fbxl15  
Sgk2  
Myg1  
Rbm7  
Hist1h1c  
Acad10  
Sgsh  
Ints7  
Rnf114  
Mettl3  
Snx3  
Srsf3;Gm12355  
Phf6  
Arhgap33  
Dzip1;Syce3  
Cpped1  
Txndc9  
Apoa2  
Gpcpd1  
Znf346;Zfp346  
Ccdc115  
Api5  
Elmo3  
Saraf  
Adra2a  
Fndc3b  
Lcat  
Pbx1  
Rbm14  
Cul4a  
Nme4  
Clec2l  
Serpina1d  
Lcp2  
Fam151b  
Trmt2a



Anapc11  
Stard4  
Timm8a1  
Eprs  
Stard10  
mt-Atp6;Mtatp6  
Rpe  
Smim20  
Fam169a  
Ehd2  
Nle1  
Gnl31  
Arfgap2  
Med20  
Arglu1  
Myt1  
Sumo1  
Mbd2  
Dph7  
Pabpc4;Gm10110  
Ube2j1  
Ddx23  
Jmjd1c  
Alkbh5  
Pard6a  
Ahi1  
Mrps11  
Atp5b  
Parvb  
Depdc5  
Alox5  
Kiaa1671  
Ehmt2  
Tssc4  
Tcirg1  
Tnc  
Osbp19  
Fxyd7  
Ube2r2  
Pde8b  
Chmp2b  
Ugt1a7c  
Mx1

Bgn  
Il16  
Commd7  
Ifih1  
Map3k12  
Arid4b  
Prpf3  
Mtif2  
Tmem62  
Lyz2  
Ppcs  
Golga7  
Dfna5  
Znf330  
Lgals1  
Tdp1  
Dpf3  
Vps37a  
Entpd5  
Arpp21  
Raf1  
Spata6  
Pxx  
Zfc3h1  
Vasp  
Rapgef1  
Abl1  
Ccdc39  
Fmn1  
Ncapg2  
Foxp1  
Dis3l2  
Cnpy4  
Plin3  
Cep128  
Gm21992;Rbm4  
Gabpa  
Rbm10  
Birc6  
Fam107b  
Myo1g  
Slc13a5  
Tsta3

Stat2  
Samd9l  
Tha1  
Nmnat1  
Rps12  
Raggef5  
Sdad1  
Fuca2  
Prpf31  
Rnf213  
Sugp2  
Casp8  
Pla2g16  
Rtp1  
Ube4b  
Nudcd1  
Krt33a  
Gm20441  
Eif1  
Znf622  
Tmeff1  
Pctp  
Med28  
Kif21b  
Ssbp3  
Ppil3  
Cnot10  
Ddx58  
Tbc1d9b  
Rprd2  
Tmed2  
Ddx21  
Calm1  
Cdh8  
Tapbp  
Rab36  
Cd48  
Lnpep  
Trub2  
Wdr75  
Kiaa0196  
Alb  
Plekha6

Jam2  
Chchd7  
Ttc17  
Gbp6;Gbp10  
Pde3b  
Xrcc1  
Znf609  
Tcerg1  
Ckap2l  
Eepd1  
Tbc1d7  
Cenpc  
Brox  
Snw1  
Rps7;Gm9493  
Dhx29  
Gfce  
Ppp2r2b  
Srek1  
Dchs1  
Alg9  
Vill  
Kirrel2  
Hspg2  
Gale  
Thbs4  
Slc12a7  
Ambp  
Prcc  
Semp6  
B3gatl  
Tmem260  
Tmem186  
Ccdc94  
Evi5  
Slc20a1  
Ppp1r12c  
Vrk3  
Tmem240  
Fgfr3  
Gbp9  
Azgp1  
Fam171a1

Ufsp1  
Asun  
Raver1  
Rfk  
Bad  
Clip3  
Kcnc3  
Dusp19  
Thns12  
Tmbim6  
Mospd2  
Fgd1  
Rmdn1  
Gar1  
Cd63  
Znf598  
Desi1  
Ldlr  
Kiaa1033  
Znym3  
Sox2  
Nacc1  
Swap70  
Enpp5  
Kctd21  
Rpap3  
Selm  
Polr3e  
Mvb12b  
Nudt13  
Ddx50  
Prorsd1  
Naa40  
Wdr61  
Cnot2  
Tpmt  
Ncf2  
Deptor  
Pecr  
Ass1;Gm5424  
B4galnt1  
Larp4  
Brd7

Herc6  
Skiv2l2  
Ints12  
Man2a1  
Hgh1  
Uck1  
Xpr1  
Mad2l1bp  
Plau  
Dpp8  
Rap2c  
Otud7b  
Ccde9  
Eif2b4  
Traf2  
Lgmn  
Skap2  
Cdk5rap2  
Sgsm3  
Riok1  
Top1  
Fut11  
Herc1  
Sulf2  
Dgat1  
Eif3a  
Fam91a1  
Trappc2  
Ripk1  
Hdac11  
Fubp1  
Atp11c  
Acot8  
Snupn  
Ash2l  
Tbl1x  
Ncor2  
Rab13  
Chrm2  
Cluap1  
Pcx;Pc  
Tf  
Pon1

Znf326;Zfp326

Slit3

Srsf2

Itih5

Ndufaf4

Dped

Timm22

Edc4

Trim25

Cybb

Dennd1a

Tbck

Xpo5

Znf521

Glt1d1

Dnajc28

Hltf

Kctd4

Lmcd1

Rprd1a

Tnxb

Dync2li1

Adh1

Ciao1

Rassf8

Mup2;Mup10

Gnb2l1

Apoa1

Kctd6

Sec14l1

Pdim1

Prox1

Eif1ad

Csnk1d

Xrn1

Gatad2b

Pum2

Pogz

Entpd1

Dab1

Rnase4

Exosc7

Akr1e2;Akr1e1

Tceb3  
Grec10  
Kif3a  
St3gal3  
Prkaa2  
Slain1  
Isoc2a  
Lrch1  
Rpl32  
Adpgk  
Pdcd5  
Smim12  
Palm2;Palm2Akap2  
Rgs18  
Unc93b1  
Hnrnpul2  
Surf6  
Sec61a2  
Plxnb3  
Gdap2  
Naglu  
Sema4c  
Rcan3  
Bbs7  
Fam122a  
Klh15  
Rasgef1a  
Smad2  
Raly  
Tbc1d25  
Pdzd2  
Mef2d  
Ca7;Car7  
Slc30a7  
Hist1h3a  
0610011F06Rik  
Mrpl50  
Evi51  
Ndn12  
Abca1  
Dennd4b  
Col5a1  
Kbtbd7;Zbtbd6



Mrpl21  
Leprel1  
Dpf1  
Mesdc1  
Baiap3  
Hbs11;Gm9923  
2410002F23Rik  
Parn  
Saa3  
Cd1d1;Cd1d2  
Myo16  
Fam126a  
Asna1  
Uap1  
Wdr12  
Ccdc12  
Ei24  
Chpt1  
Rab43  
Elac2  
Arhgef101  
Galnt1  
Nhlrc3  
Osbp2  
Lpcat1  
Urm1  
Fxn  
Cd36  
Mtmr14  
Tmem126b  
Zmynd11  
1700037H04Rik  
Txnrd3  
Sez61  
Slc25a21  
Ddx41  
Gfpt2  
Tmcc3  
Bola1  
Hs2st1  
Fam134a  
Ndufv3  
Gorasp2

Rsb1  
Mpeg1  
Antxr1  
Csk  
Pter  
Barhl2  
Stxbp2  
Klhdc8b  
Cyth2  
Rps23  
Elp2  
Ppat  
Mrps21  
Gng4  
Col4a1  
05-Sep  
Gtf2a1  
Cpsf7  
Khk  
Zc3h7b  
Acbd7  
Wdr43  
Fam160b1  
Ubl4a  
Cdk13  
Rnf13  
Ttc21a  
Celf3  
Baz2a  
Rfc1  
Rps10  
Gm10094;Sap18  
Ankrd28  
Dctpp1  
Ppp4r4  
Nat14  
Cox7c  
Spg20  
Zpr1  
Htatsf1  
Stx17  
Ttc33  
Usp8

Rsl1d1  
Cwc15  
Sema4a  
Flnc  
Etv6  
Pald1  
Nmnat2  
Hist1h1b  
Uvrag  
Igfbp7  
Nelfb  
Ints10  
Nde1  
Foxk2  
Commd5  
Osgep  
Klhdc10  
Map3k4  
Pdzd11  
Igsf9b  
Abca8b  
Exoc1  
Fbxl14  
Fchsd2  
Tubal3  
Btaf1  
Prr7  
Dguok  
Wbscr16  
Med6  
Rasal2  
Bcl10  
Mrpl49  
Dgkg  
Celf6  
Usp1  
Nudt16l1  
Set  
Cyp51a1  
Zmat4  
Cbx8  
Top2a  
Znf706

Arhgef10  
A830010M20Rik;Kiaa1107  
Chi3  
Ano3  
Ivns1abp  
Ppfibp2  
Sepsecs  
Rasgrp1  
Terf2ip  
Zc3h15  
Heatr5a  
Ccdc53  
Pak7  
Galns  
Ptrh1  
Hdac8  
Usp28  
Fmn2  
Actl6a  
Rps25  
St18  
Nup98  
Pex11b  
Ctnnbip1  
Znf385b;Zfp385b  
Cblb  
Cdc3711  
Ncoa1  
Lsm14a  
Mdn1  
Nub1  
Epha6  
Pdlim3  
Dnttip1  
Nfib  
Rbbp5  
Aif11  
Trhde  
Ulk2  
Sirt7  
Slc39a7  
Wdr5  
Rbm12b2

Khdrbs2  
Ugcg  
Necap2  
Sart1  
Slit1  
Cdh23  
Dach1  
Sely  
Pspc1  
Nmt2  
Bag1  
Klh13  
Vav3  
Blnk  
Trim27  
Znfx1  
Tubgcp6  
Arhgap18  
Gtpbp4  
Arhgap25  
Cp  
Cdh20  
Btf3l4  
Mios  
Ogn  
Tcf20  
Lsm1  
Rad50  
Sez6  
Tceb1  
Sgms1  
Hist1h1e  
Timp2  
Txndc12  
Ankrd17  
Marcks1l  
Atp2c1  
S100a8  
Mtrf1l  
Ubr2  
Larp6  
Clmp  
Rdh13

Pdzd4  
Secisbp21  
Chtop  
Zbtb8os  
Gnpat  
Otulin  
Slc33a1  
Mrpl30  
Clstn2  
Tprn  
Sub1  
Gm20671;Pisd  
Yeats4  
Ighg2b;Igh-3  
S100a1  
06-Mar  
Mrpl40  
Etnppl  
Mex3c  
Nme7  
Mphosph10  
Slc7a3  
Ikkkb  
Gmeb2  
Usp10  
Tmem263  
Plekhg5  
Rnf123  
Ubp21  
Cnnm3  
Rplp1  
Agpat6  
Sobp  
Rpl38  
B3gat3  
Mapk4  
Rnf181  
Csrp2  
Nbas  
Ptk7  
Brinp2  
Rnf219  
Ikkkap

Surf4  
Cds1  
Rpa1  
Iqgap1  
Lzts2  
Serping1  
Fam120c  
Vash1  
Alkbh7  
Golga5  
Igf2bp2  
Wipf2  
Gpld1  
Dhx35  
Pelo  
Aifm2  
Smoc1  
Prim2  
Lrsam1  
Chgb  
F8a;F8a1  
Ift74  
Ltn1  
Dnajc25  
Wsb2  
Dnajc19  
Hcls1  
Lrrc1  
Xpot  
Comt  
Hexa  
Unc119b  
Gys1  
Dffa  
Nasp  
Dapk1  
Elp4  
Nadk  
Smardc2  
R3hdm1  
Apbb2  
Mb  
Cbwd1

Hps6  
Nxph1  
Adss  
Rimkla  
Rbmx  
Hapln2  
D10Jhu81e  
Rab33a  
Sae1  
Tceal1  
Tufm;Gm9755  
Acvr1  
Pnpo  
Ptdss1  
Nhs11  
H2afv;H2afz  
Emp2  
Fam65b  
Fhod1  
Lmf1  
Kynu  
Ptpdc1  
Snrnp40  
Chml  
Oxsm  
Sh2d3c  
Pgpep1  
Sap30bp  
Rims4  
Xpnpep3  
Fga  
Lgals3bp  
Trp53i11  
Hirip3  
H2afx  
Ndor1  
Cmtr1  
Gtf2f1  
Cars  
G3bp1  
Rbms1  
Entpd3  
Ptbp1



Pelp1  
Dyrk1a  
Zdhhc6  
Apip  
Enox2  
Pak4  
Adamts5  
Nes  
Kdelc2  
Dnmbp  
Slc22a17  
Sel1l3  
Kif13b  
Trabd  
Rasa3  
Thumpd1  
Fgb  
Satb1  
Siae  
Gla1  
Omp  
Zfp532;Znf532  
R3hcc1  
Irak4  
Syne2  
Pias1  
Efnb1  
Mars2  
Ttr  
Bzw2  
Map4k5  
Cdk7  
Phactr2  
Inpp4b  
Ankzf1  
Hnrpa1  
Efcab14  
Adipoq  
Actr6  
Cog2  
Tbc1d9  
Wdr55  
Sec63

Tbc1d22b  
Sh3bgrl2  
Sssca1  
Cd1d1  
Scg2  
Ngp  
Fbxo44  
Kiaa1045  
Tma7  
Gab2  
Vimp  
Hivep2  
Lpin1  
Ddhd1  
Pcsk1  
Cpq  
Ttc3  
Apod  
Kiaa1598  
Ccde141  
Pecam1  
Med16  
Chd1  
Bmpr1a  
Lcmt1  
Dgcr8  
Sspl2a  
Mrpl22  
Mif4gd  
Scaf8  
Pcnx13  
Cenh  
Tes  
Cck  
Naprt  
Hspb6  
Polr2l;Gm10774  
Ctc1  
Mapk11  
Pus10  
Cdk5r2  
Exoc6  
Apoa4

Polr2k  
Pde12  
Ccdc28a  
Sgpp1  
Itsn2  
Nup155  
Romo1  
Ubxn2b  
Polr2b  
Yipf4  
Agt  
Slc39a10  
Rpl19  
Mut  
Pcsk1n  
Prrc2a  
Fam120b  
Copa  
Npdc1  
Gpr37  
Lrch4  
Pdp2  
Sra1  
Ptplb  
Tmem19  
Rif1  
Iap  
Plcb3  
Nfx1  
Nav3  
Celf1  
Bap18;0610010K14Rik  
Lpxn  
Mbnl1  
Ppfibp1  
Abcd4  
Atad2b  
Cabp1  
Parp1  
Edf1  
Acin1  
Atp5j  
Myrip

Ndufa1  
Ubxn4  
Rnd2  
Kpna1  
Rab1  
Gm20604;Gm28051;AK010878  
Mrto4  
Trmt10a  
Fam45a  
Aftph  
Abhd17b  
Hba-a2;Hba  
Ndufc1  
Gpr17  
Setd3  
Bnip2  
Ca13  
Ebf3  
Qrich1  
Dcn  
Mrpl57  
Mrps30  
Ercc4  
Dis3  
Nrp1  
Mblac1  
Urod  
Egfr  
Emc4  
Mtmr12  
Rpia  
Ahctf1  
C1qa  
Vwa9  
Garem  
Atp5d  
Fam195b  
Rpl13a  
Akap1  
Cog5  
Ppp1r2  
Glrb  
Ppp1r11

L7rn6;l7Rn6

Prpf38a

Gtf2b

03-Sep

Ythdc1

Mrgbp

Exosc1

Nptx2

Hs1bp3

Itpk1

Lrrc8d

Ganc

Flrt1

Hdgfrp2

Slc25a31

Hmbox1

Nmi

Eif3c

Clec16a

Cbln2

Nr2c2ap

Rbms2

Itga6

Slc30a5

Snx15

Serf2;Serf1

Gatad1

Ctsf

Ppapdc1a

Ilkap

Gng10;Gm20503

Akap8

Engase

Fez2

Rbm33

Pou3f3

Scpep1

Trip4

Dbr1

Hddc2

Ppp1r9a

Neurod1

Sephs1

Mrrf  
Ptpn6  
Hn1l  
Cemip  
Hmgcs1  
Opalin  
Sirt4  
Bptf  
Ifggb5  
Gdpgp1  
Sf3a2  
Acss2  
Rtn4rl2  
Jph4  
Tmem132b  
Pla2g7  
Serpini1  
Gbp1  
Cstf2t  
Vezt  
Srp14  
Cant1  
Geat  
Adprm  
Pdim2  
Pcgf2  
Col6a1  
Uba2  
Eogt  
Rimklb  
Braf  
Arvcf  
Pik3r5  
Tada1  
Tpst1  
Cdr2l  
Kif3c  
Ctgf  
Zic1  
Ttc37  
Reep3  
Mrpl14  
Map2k5

Glb1  
Cdh6  
Sec24b  
Fos  
Fbn1  
Hmger  
St3gal5  
Mkrm2  
Dak  
Ift22  
Col12a1  
Megf8  
Fhl3  
Tbl3  
Gpatch11  
Pkn1  
Adcy7  
Sh3bgrl  
Arhgap24  
Ybx1  
Matk  
St8sia3  
Eif4g2  
Dnajc27  
Kdm2b  
Ubl5;Gm16381  
Atp2b3  
Ufm1  
Rasal3  
Irf3  
Mertk  
Parp3  
Sema4d  
Ahdc1  
Stam2  
9030617O03Rik  
Atxn1  
Dusp23  
As3mt  
Rps6kb1  
Brk1  
Tll1  
Kiaa0319l;AU040320

Homer3  
Gas2  
Smdt1  
Prpf40b  
Scamp2  
Ogfod1  
Phldb2  
Rps2;Gm5786;Gm18025;Gm6576;Gm8225  
Bloc1s2  
Tmed4  
Edem3  
Ergic2  
Ccser2  
Chmp1b1  
Ormdl3  
Ripk2  
Sacs  
Unk  
Lonrf2  
Sypl1;Sypl  
Maf1  
Smek1  
Ctsa  
Mettl16  
Crhbp  
Pcbp4  
Ppp1r14c  
Xrcc6  
C2cd4c2CD4 family  
Myo1f  
Casp1  
Tm9sf4  
Ncl  
Sde2  
Rps14  
Pomp  
Tinagl1  
Col18a1  
Sipa1  
Rsf1  
Lrp8  
Rnf7;Gm7075  
Elp3



Fam73a  
F2  
Itgax  
Sptbn4  
Tpp1  
Uxt  
Rpp25l  
Atg2a  
Ppp1r16a  
Hmha1  
Atrx  
Atg4b  
Atp5g2;Atp5g3  
Gucy1b3  
Tpk1  
Atl3  
Gprasp1  
Patz1  
Herc4  
Hn1  
Ilvbl  
S1pr5  
Pdpf  
Ppip5k1  
Cnot8  
Raver2  
Rrm2  
Amer2  
Agl  
Dcakd  
Ythdf1  
Fbxo42  
A2m;Pzp  
Gbp2  
Zkscan3  
Prps1;Prps113  
Tcf25  
Plcd4  
Nacad  
Em11  
Alpl  
Pmch  
Ccadc88a

Tmppe  
Tarbp2  
Ube2a  
Cebpz  
4931406P16Rik  
Paxbp1  
Pwp2  
Ssh2  
Farsb  
Cbx5  
Snn  
N6amt2  
Ube3c  
Ddx56  
Tsc22d4  
Eef1e1  
Nipbl  
Cnn1  
Ccdc85a  
Iigp1  
Fgd2  
Wbp11  
Fam63a  
Kcnj6  
Gfer  
Clcc1  
Cdc5l  
Zbtb7a  
Ecsit  
Yars  
MacroD2  
Camsap2  
Gns  
Amot1l  
Gpaa1  
Tle1  
Heg1  
Cwc22  
Elfn1  
Kdm4b  
Scg3  
Ap4e1  
Tprkb

Phlpp2  
Was  
Gabpb1  
Yif1b  
Lppr4  
Smg1  
Slc27a1  
Atp6v0c  
Mtdh  
Gamt  
Sdhaf2  
Arpc1b  
Mepce  
Zc3h7a  
Cdk5rap3  
Bace1  
Pnpla7  
Gpr56  
Ift27  
Naf1  
Tspan2  
Prmt3  
Arhgef25  
Amot  
Trip10  
Fastkd5  
Cdk4  
Golga3  
Grid2  
Tgfb1  
Ttc39b  
Tmem165  
Palmd  
Casp7  
Rab28  
Fgd4  
Gid4  
Hdac1;Gm10093  
Tap1  
Ap4m1  
Asphd1  
Eif4e3  
Gmip

Chga  
Abce1  
Fut9  
Chd4  
Kiaa1161  
Trappc1  
Ptp3  
Hmgb2  
Tub  
Slc35b2  
Bai1  
Ddx6  
Abcc4  
Megf10  
Fbxo7  
Papss1  
Polr2j  
Galt  
Lipa  
Phf1  
Capg  
Eftud1  
Snap23  
Emilin1  
Ndc1  
Slc4a1ap  
Cnksr3  
Fat2  
Ttc5  
Sh3bp1  
Tmcc2  
Bche  
Galm  
Trappc8  
Kidins220  
Renbp  
Ephb6  
Mob2  
Nyap2  
Zfpm2  
Micu2  
Naa35  
Sytl2

Mrpl19  
Abca2  
Chd9  
Kiaa1841;0610010F05Rik  
C4b  
Ntan1  
Zfyve27  
Mocs2  
Clns1a  
Cxxc1  
Mcc  
Tbc1d19  
Tra2a  
Lrrc25  
Sp9  
Krt85  
Med1  
Slc38a2  
Tnfaip2  
Cdc23  
Cers1  
Pi4kb  
Tubgcp4  
Cdan1  
Gtf2h2  
Dhx30  
Pank3  
Ddx39b  
Cacul1  
Gtf3c4  
Efnb2  
Snrpf  
Hkdc1  
Lphn3  
06-Sep  
P2rx4  
Rbck1  
Ddx27  
Sf3b5  
Cxx1c  
Il1rap  
Kcnip1

Rpl29;Gm17669;Gm10709;Gm3550

Zfand5  
Dapk3  
Ctso  
Igf2bp1  
Samd14  
Ptpn21  
4930402H24Rik  
Gabarap  
Cfi  
Serpind1  
Atpif1  
Vps13d  
Plekho2  
Ccdc186  
Fam115a  
Ccnk  
Rnf113a2  
Arg2  
Msi1  
Atf7ip  
Tyms  
Manf  
Srd5a3  
Slain2  
Cmc1  
Lemd2  
Rpl7a  
Nup11  
Nfx11  
Tmem178b  
Plek  
Fkbp5  
Upp1  
Hars  
Ctbs  
Otud7a  
Ankrd13d  
Dhx33  
Col14a1  
Podx12  
Micall2  
Tbc1d2b  
Smug1

Gmfg  
Med13  
Nova2  
Slfn9  
Zeb1  
Eif2d  
Nop14  
Pkd2  
Pus1  
Clip4  
Dars  
Erb2ip  
Hectd3  
Cyp2d22  
Coq4  
Cst3  
Sfpq  
Mid1ip1  
Med11  
Usp47  
Trp53bp1  
Bckdhd  
Mycbp  
Larp4b  
Cldnd1;Cldnd25  
Hk3  
Fer  
Aacs  
Mcf2  
Rpl18a  
Frd4b  
Tgs1;Gm5117  
Sarnp  
Nr2f1  
Aamd  
Smpd2  
Tgfb  
Stambp1  
Mrpl16  
No19  
Thumpd3  
Plekhf2  
Klf13

Rnf157  
Ints4  
Clca1  
Lbr  
Mrpl27  
Ppil4  
Rpp30  
Ctr9  
Mrpl3  
Mars  
Cgn1  
Rasa1  
Acy3  
Hist2h2bb;Hist1h2bm  
Dph2  
Txnip  
Zc3h18  
Hspb1  
Chmp3  
Fnta  
Ubr5  
Tmem222  
Kif15  
Agtbp1  
Gna12  
Pik3cb  
Nap115  
Srsf12  
Mast1  
Usp22  
Adam9  
Cry2  
Col4a6  
Atxn2  
Hsd11b1  
Abhd4  
Dock7  
Haus3  
H1fx  
Cnga2  
Snx13  
Mpz  
Aass



Ctu2  
Abcf3  
Scn9a  
Rrp9  
Dtnbp1  
Bid  
Mst4;2610018G03Rik  
Rnpc3  
Syt6  
Lama4  
Magt1  
Phc2  
Nemf  
Ttc28  
Nubpl  
Zfr2  
Rel  
Eefsec  
Fam184a  
Mt3  
H2-K1  
Jmjd7;Gm28042  
Arhgap30  
Atp13a5  
Afap111  
Kti12  
Nop10  
Cacnb2  
Unkl  
Mesdc2  
Lgals8  
Sp110  
Creg1  
Hmgb3;Gm6104  
Xdh  
Hmox1  
Mrps16  
Pdcd1  
Bag3  
Crebbp  
Mfap1  
Ell  
Plbd2

Zfr  
Ptar1  
Rc3h2  
Jakmip2  
Myl6b  
Wibg  
Fbl  
Slc7a6  
Spata5  
Fto  
Wapal  
Alyref  
Kctd10  
Trmt11  
Satb2  
Pak1ip1  
Mrps35  
Mrpl43  
Mpdz  
Tifa  
Lrig1  
Hp1bp3  
Kcnb2  
Ralgps2  
Ago3  
Rilp1  
Nfil3  
Ogfr  
Eif2ak4  
Relb  
Ace  
Bcat2  
Mtss1  
Lrch2  
Kdm4a  
Prrc2c  
Igf2r  
Eef2k  
Wdr74  
Pyroxd2  
Cdkn2aip  
Tusc2

Bola2  
Tbc1d2  
Rrbp1  
Osbp16  
Qki  
Ncbp2  
Fbxo38  
Phyhd1  
Cygb  
Golp31  
Slc37a2  
Nup88  
Smad1  
Mem5  
Serpinh1  
Ppm1g  
Rap1gds1  
Slc16a2  
Arid2  
Msh2  
Adnp  
Pax6  
Pycard  
Kmt2a  
Rbm47  
Itgb3  
Bod1  
Arhgef18  
Nat81  
Bdh2  
Pvr13  
Ptgds  
Ddx49  
Dusp14  
Dhx38  
Alox15  
Asap2  
Fam102a  
Rtn2  
Cbx4  
Rbpms  
Pdlim4  
Klh19

Impa2  
Fam213b  
Dek  
Syt11  
Acot13  
Slc6a15  
Adrbk1  
Tmem223  
Serp8  
Irf2bp2  
Phkg2  
Rpl4  
Nudt7  
Kiaa1467  
Dact3  
Ubxn2a  
Acp2  
Spats2  
Lym4  
Kcnj11  
Dars2  
Sart3  
Slc9a6  
Clgn  
Hdac2  
Pfdn1  
Hnrnp3  
Apoc3  
Gpatch1  
Pitpnm2  
Cstf3  
Ccb12  
Tsc22d2  
Col15a1  
Zfp644  
Ago2  
Appbp2  
Fv1  
Dhx57  
Naip2  
Ca5b  
2700097O09Rik  
Cntn3

Penk  
Gpc3  
Adap2  
Suv420h2  
Lactb2  
Rbm39  
Hecw1  
Fn3krp  
Pkp2  
Tyk2  
Gcc2  
Tram1  
Cdk18  
Esrra  
Inpp5j  
Ppapdc2  
Sin3a  
Bccip  
Nelfcd  
Egln1  
Hdhd2;Ier3ip1;Gm10784  
Ybx3  
Dnlz  
Tor2a  
Ca14  
Rnf41  
Epb42  
Mpv17  
Trappe5  
Mms19  
Abhd14b  
Pdgfrb  
Rpl35;Gm10269  
Amfr  
Hypk  
Odr4  
Stau1  
Bop1  
Akt1  
Rps28  
Cpeb2  
Ccdc85c  
Slc6a5

Hid1  
Tcf4  
Neurod2  
Cpsf3  
Zhx3  
Nt5c2  
Aup1  
Fzd3  
Ltbp4  
Stau2  
Utp15  
Tb11xr1  
Dnajib12  
Rtp2  
Col11a1  
Chchd10  
Seg5  
Sos2  
Rtn4ip1  
Atpaf2  
Tlr13  
Epha7  
Ric8b  
Ewsr1  
Gipc1  
Smurf1  
Maz  
Ntmt1  
Dscr3  
Hspa13  
Focad  
Gulp1  
Exosc3  
Lpp  
Heatr6  
A2mp  
Cirbp  
Rel1  
Mtcl1  
Ssbp2  
Gjc3  
Tiam1  
Sec24d

Crtc1  
Gbp4  
Rps6kc1  
Hook1  
Scaper  
Mre11a  
Rnasel  
Cactin  
Cyp20a1  
Cdh4  
Rasgrf2  
Kctd1  
Dopey2  
Sash3  
Ubac2  
Dnajc30  
Tspan15  
Hnrnpm  
Gpn1  
Xab2  
Cog7  
Triobp  
Myo1d  
Mrps24  
Wrnip1  
Cox19  
Safb  
Emc6  
Timm10b  
Cetn3  
Pex10  
Accs  
Pard3  
Ctps1  
Tmem109  
Abcd2  
Kcnq3  
Ctcf  
Lingo3  
Myo9b  
Ten1  
Parg  
L3hypdh

Rxbp1  
Papola  
Pold2  
Fam69b  
Mthfs1  
Atp5s  
Pgk2  
Wdr26  
Elp5  
Mettl14  
Emr1  
Usp32  
Ncoa6  
Gca  
Orc4  
Lgl1  
Kpna6  
Mapk15  
Mta3  
Sall1  
Npc2  
Pknox2  
Fmo5  
Usp39  
Cobl  
Gng8  
Fbxo11  
Fat4  
Psip1  
Rgs3  
Map2k2  
Tlr3  
Scaf4  
Sec61b  
Coq10a  
Rps4x;Gm15013  
Pikfyve  
Cabin1  
Snx33  
Cwf1911  
Atxn7l3b  
Smg6  
Extl3



Tmpo  
Znf512b  
Kif16b  
Itga4  
Speg  
Snx17  
Ces1d  
C1qc  
Uaca  
Rel2  
Mb21d1  
Fam217b  
Tspan9  
Sun2  
Tstd1  
Rpp25  
Adck3  
Limk2  
Aatk  
Elov15  
Cecr5  
Pstpip2  
Nqo1  
Dok2  
S100a10  
Lrrc16a  
Ints2  
Pex5  
Shb  
Brd3  
Trmt112  
Lrfr2  
Aff4  
Tpgs2  
Dhx16  
Erlin1  
Dock1  
Casc4  
Fgfr1op2  
Ddx54  
Trappc13  
Met  
Dnal1

Ubxn1  
Xiap  
Hsd17b7  
Apaf1  
Ralgapa2  
Snx29  
Slc4a2  
Mtp  
Bloc1s4  
Tti1  
Gvin1  
Spag7  
Dzip3  
Mgrn1  
Uxs1  
Wipi1  
Mrpl55  
Spats21  
Thrap3  
Thg11  
Hvcn1  
Zwint  
Glmn  
Ranbp2  
Ctif  
Ift52  
Ccde25  
Dnajc2  
Smc3  
Inadl  
Pex7  
Manba  
Ercc1  
Rpl2211  
Pde4b  
Pld1  
Dhx15  
Thoc5  
Cnpy3  
Numa1  
Mylk  
Ate1  
Sdcbp

Inpp5e  
Mvd  
Whsc111  
F11r  
Fam188a  
Cr11  
Ddrgk1  
D2hgdh  
Rfx1  
Ifi203  
Arhgap4  
ApoH  
Wash1  
Emg1  
Hap1  
Rab26  
Pign  
Rps21  
Unc5b  
Wars2  
Slitrk3  
Ndufb2  
Dnase2;Dnase2a  
Preb  
Igkc  
Arhgap22  
Fam129a  
Hnrnpd  
Uqcc2  
Sec16a  
Arid1b  
Map7d2  
Eif4ebp1  
Ldlrap1  
Aoc3  
Grip1  
Srsf5  
Usp4  
Lgi4  
Anln  
Colec12  
Znf385a  
Sox6

Yme111  
Tmlhe  
Tradd  
Nol7  
No66  
Exd2  
Farsa  
Irs1  
Tlr7  
Mtmr7  
Ctdp1  
Luc7l  
Dennd5a  
Elf2  
Gtf2e1  
Cav1  
Rps3a  
Cnbp  
Ubap1  
Ngb  
Ublcp1  
Msl1  
Eny2  
Casq1  
Fgfr1op  
Lurap1l  
Pigg  
Ppp1r14a  
Casp3  
Ppp3cc  
Gpmb  
Ube2h  
Keap1  
Pde9a  
Use1  
Phlpp1  
Kbp;2510003E04Rik  
Dut  
Capn7  
Cnot6  
Here2  
BC024978  
Slc7a1

Ptpn2  
Sparc  
Mogs  
Atg14  
Trmu  
Dusp28  
Yod1  
Nudt17  
Spast  
Endou  
Vwf  
Tagln  
Tyro3  
Pcdcl1  
Ythdf3  
Ccde50  
Ttc38  
Ccde104  
Lsm12  
Psd2  
Chmp1b2  
Mapkap1  
Rufy2  
Pard6b  
Cd74  
Gm10704  
Gm20425  
Stxbp6  
Ccde40  
Pcnp  
Mllt11  
Gpr107  
Serpina1b  
Ctnnal1  
Rpl6;Gm5428  
Tmem160  
Eif2s3y  
Snx8  
Stom  
Rras  
Tdrp  
Prkra  
Thyn1

Mrpl10  
Purg  
Cisd3  
Ksr1  
Map3k10  
Taf15  
Baz2b  
Wdr82  
Naa50  
Slc6a13  
Cobll1  
Itih1  
Ddx31  
Gm11568;Krtap9-  
1;Gm11559;Gm11567  
Npm3  
Foxj3  
Hmga1  
Fggy  
Ddx10  
Vps37b  
Kcnip3  
Pofut2  
Sec24a  
Tmem55a  
Till1  
Stab1  
Hras  
Nphp4  
Nup43  
Cmtm6  
Utp6  
Zw10  
Ankrd34a  
Il18  
Prr12  
Atp5sl  
Hspb11  
Tbk1  
Rab32  
Dbh  
Cenpf  
Eif1ax  
Cuedc2

Cnot3  
Syngn2;Gm20708  
Fcho1  
Hsbp1  
Rabepk  
Lbp  
Lrrfip2  
Pbx3  
Sntb2  
Prune  
Man2b2  
Cic  
Glyat13  
Dpy30  
8030462N17Rik  
Zfyve16  
Dock5  
Ube2j2  
Magi3  
Cramp11  
Polr2g  
Golga1  
Mdga1  
Tex10  
Cdk2  
Irf2bp1  
Chd5  
Samd4a  
Wac  
Ddx60  
Kbtbd2  
Gm20431;Ube2v1  
Ca1  
Med15  
Adecyap1r1  
Hnrnp1  
Rpl21  
Paqr4  
Cd14  
Pdxdc1  
Nhp211  
Astn2  
Ciz1

Wtap  
Adamts1  
Ccnyl1  
Bcl11a  
Gpatch8  
Frmd5  
Ranbp6  
Snrnp35  
Slc4a7  
Cuta  
Dhfr  
Slc17a8  
Tle3  
Ppp1r18  
Pigu  
Dcun1d1  
Fxr2  
Adi1  
Nrip2  
Lamtor2  
Wwp2  
Gc  
Mkl1  
Rbm6  
Gigyf1  
Hrg  
Aqp1  
Tmem201  
Krt83  
Gga1  
Rpl28  
Mic1  
Eps812  
Adhfe1  
Ppil1  
Zfp37  
Elmsan1  
Ccdc43  
Nsg2  
Ubash3b  
Hist1h2bf  
Tyw1  
Cep55



Ube2z  
Ca8  
Cnep1r1  
Gramd3  
Tbca  
Fam172a  
Gtf2h4  
Tnrc6b  
Dmd  
Synm  
Lmbrd1  
Abcf1  
Txndc17  
Trip12  
Ttc30b  
Mpdu1  
Srp9  
Soga1  
Znf281  
Gm16286;Naa11  
Sepw1  
Lchn  
Atm  
Chrm1  
Lace1  
Atg12  
Lynx1  
Zmym4  
Specc11  
Folh1  
Zak  
Eml4  
Hdac4  
Sike1  
Spen  
Trex1  
Rtn4r  
Kank3  
Med24  
Tmem57  
Rabgap11  
Rab11fip5  
Aasdhpt

Usp18  
Ndufab1  
Pfdn6  
Pik3ip1  
Timm10  
Sirt6  
Ankrd46  
Map7  
Rgma  
Hcn4  
Txnl4a  
Cln6  
Polr3a  
Foxo3  
Plod3  
Pcdh19  
Bbs5  
Prdm10  
Isy1  
Epb4115  
Ankrd24  
Tmem237  
Prickle1  
Thsd4  
Kif11  
Ascc2  
Lsm8  
Uap111  
Pvalb  
Rbm27  
Isca1;AK157302  
Chac2  
Ubp1  
Cfap20  
Tor1b  
Cnst  
Arid5b  
04-Sep  
Kndc1  
10-Sep  
Dtd2  
Fbxo18  
Inmt

Drg2  
Grb10  
Poglut1  
Psmb9  
Usmg5  
Ifit2  
Ddx47  
Kcnj13  
Coa5  
Gramd1b  
Timm17b  
Pipox  
Fem1b  
Rcbtb1  
BC068157  
Pds5a  
Igtf  
Kctd13  
Stambp  
Ccdc92  
Grn  
Ap1s2  
Cstf1  
Slc24a2  
Lmo7  
Itga2  
Tlk2  
Commd9  
Safb2  
Fam208a  
Gmpr2  
Nxf1  
Eif2ak2  
BC048403  
Rbfox1  
Vhl  
Nbeal2  
Asah2  
Thrsp  
Cnot6l  
Mast4  
Zranb2

Mtco2;mt-Co2

0610037L13Rik

S100a5

Kcnj9

Phf2011

Mgst1

Sp100

Aes

Mers1

Igfbp2

Jcad

Ugg2

Clic6

Nob1

Cyth3

Ispd

Pcyt1a

Nrn1

Gpx3

Mrps15

Ecm29;A1314180

Dynlt1

Sf3b3

Sult1d1

Cbl1

Ube2d3

Smpd4

Tox4

Lama2

Wdr6

Slc25a18

Nelfe

Iqgap2

Gnptg

Radil

Snx11

Hoxd10

B3gnt2

Cilp

Kdm5b

Arpp19

Sez6l2

Ppp1r3f

Cbl

Srrt  
Ahnak  
Guf1  
Csnk1g2  
Trim46  
Tbc1d10a  
Slc35e1  
Zbtb18  
Atp13a3  
Dcaf5  
Fbxl17  
Setdb1  
Crip1  
Mrpl46  
Lpcat2  
Aars  
Dnaje16  
Mrpl45  
Spire1  
Pik3cd  
Mib2  
Tenc1  
Abhd5  
Plekhg1  
Dnmt3a  
Ttc26  
Nrf1  
Rps6ka5  
Dcp2  
Dhx36  
Fyco1  
Polr1b  
Rltpr  
Nlrx1  
Srsf10  
Znf830  
Mrps5  
Sec23ip  
Gosr1  
Psmg3  
Ogfr11  
H2bc3

Striatum enriched

Common	Mouse Proteome Residual	DA-FASS Proteome Residual
Tmod1	B9d2	Rab4a
Smpd3	Gdpd2	Abi2
Necab2	Ercc4	Ndufa5
Dlgap3	03-Sep	Dmx11
Camk4	Mlf2	Clvs2
Spata21	Ppp1r9a	Ube2l3
Scn4b	Nexn	Ruvbl2
Cacng4	St8sia3	Lingo1
Dpp6	Wdr17	Nt5dc3
Rasgrp2	Alg1	Shroom2
Gprin3	Kcna4	H2bc3
Sh2d5	Rps6ka4	Arpc1a
Syt17	Mpped2	Glde
Cacna2d3	Znf365	Mcu
Akap5	Mrps14	Gstm2
Phactr1	2010300C02Rik	Gphn
Ankrd63	Ept1	C2cd4c
Dgkb	Asic4	Psm4
Icam5	Atf2	Ppm1e
Chrm4	Rgs7bp	Mrps22
Me3	Clip4	Tmed10
Dlgap2	Pomk	Stxbp5l
Mff	Dtnbp1	Capzb
Gnal	Mst4;2610018G03Rik	Cyb5r3
Ptpn5	Ext2	Tbc1d24
Plxna2	Cacnb2	Septin9
Chat	Kbtbd3	Otub1
Cbr3	Mtstp8;mt-Atp8	Syt2
Shank3	Ace	Snap91
Rgs9	Hist2h2ac;Hist2h2aa1;Hist1h2al	Ppia
Stk32c	Slc35f3	Blvrb
Cyld	Pde8b	Rap1a
Shisa7	Arpp21	Hsd17b8
Fbxl16	Penk	Sar1b
Lrrc7	Foxp1	Sarm1
Rgs20	Tesk1	Astn1
Elmod1	Pes1	Ak2
Flrt3	Inf2	Dctn3
Itpka	Ckap2l	Plppr1
Tiam2	Psd	Olfm3
Pde2a	Myl4	Ret
Gpm6b	Bcl11b	Faf2

Smpd13b	Krit1	Hsd17b4
Cyp2s1	Tspan9	Actn4
Ngef	Synpo2	Ppp5c
Pde10a	Rasgef1a	Dcc
Synpo	Slc7a7	Rhob
Baiap2	Mesdc1	Psmc11
Grm2	Impdh1	Ermp1
Pcbp2	Pcdhga9	Psph
Hpca	Rem2	Glo1
Sipa111	4933434E20Rik	Tigar
Strip2	Fchol	Ntrk2
Rap1gap	Lhx2	Dhrs7b
Actn2	Trim27	Slc38a1
Pde1b	Sez6	Gpr3711
Anks1b	Sptlc1	Trappc3
Lzts3	Nsg2	Tom112
Rps6ka2	Mapk4	Arih1
Slc30a3	Ccm2	Slc17a6
Ache	Entpd3	Gad1
Kcnj4	Nucb2	Omg
Prkcd	Adamts5	Yars1
Rcn1	Srgap1	Gss
Gng7	Lmo7	Impdh2
Ablim2	Jcad	Atp1a1
Rgs14	Mast3	Etfp
Rin1	Radil	Immt
Ptk2b	Sgpp1	Pank4
Gabrd		Tmem33
Cacna1e		Tprg11
Dnm1		Cend1
Gls		Arf2
Slc6a3		Pmm1
Syngap1		Pithd1
Grm5		Dnajc11
Gsg11		Stk24
Th		Vps4b
Adcy5		Rab9b
Ppp1r1b		Slc30a1
Slc18a2		Prkag2
Kcnip2		Stt3a
Rgs8		Nrcam
Kcnab1		Vps53
Ddc		Lypla1

Cpne5  
Crym  
Rasa1  
Homer1

Txndc5  
H2az1  
Ttc39c  
Camk1d  
Psmf1  
Nos1  
Letmd1  
Cdk5  
Sod2  
Cct2  
Adam23  
Idh3g  
Pick1  
Strn4  
Tnpol  
Cox4i1  
Atp6v1e1  
Chchd6  
Cds2  
Calb2  
Spag9  
Drd1  
Asap1  
Txnrd2  
Arpc5l  
Grid1  
Gabra1  
Kcnc1  
Rac3  
Eef1g  
Arl8b  
Vamp2  
Cdh11  
Rab12  
Mindy2  
Pfk1  
Pacsin2  
Idi1  
Hepacam  
Napb  
Mpp2  
Sec13  
Plp1



Ndufs4  
Ldhd  
Clint1  
Vcan  
Tst  
Hnrnpk  
Paip1  
Nln  
Stx8  
Mdp1  
Cystm1  
Sv2c  
Dcaf7  
Pdia3  
Capns1  
Syn1  
Cadm4  
Pi4k2a  
Doc2a  
Aimp1  
Gnaq  
Dock3  
Unc13a  
Pip4k2b  
Rab3a  
Ywhae  
Atp6v0a4  
Magi1  
Gbe1  
Aida  
Sord  
Macf1  
Ctbp2  
Fahd1  
Lyst  
Ap1s1  
Bcl2l1  
Rab3gap1  
Ptpns  
Myo5a  
Gprc5b  
Arc  
Lta4h

Zdhhc5  
Rab11b  
Psm2  
C1qbp  
Cpd  
Eef2  
Kcnip4  
H2aj  
Ubqln1  
Agpat3  
Gmfb  
Iqsec1  
Eef1d  
Atp6ap2  
Nudc  
Cry11  
Ipo5  
Usp46  
Lrba  
Ndufaf2  
Gpsm1  
Ppp2ca  
Ocr1  
Pi4ka  
Srp54  
Eif2s3x  
Rock2  
Fech  
Crybb1  
Ckb  
Atp5pd  
Snx7  
Tpm3  
Rabggta  
Emd  
Eif2s1  
Ndufb3  
Dab2ip  
Plcl1  
Wasl  
Akt3  
Tomm40  
Cct6a

Apool  
Cpnc7  
Pebp1  
Uba5  
Ppfia3  
Ube2m  
Eef1a1  
Ctnna2  
Tbc1d17  
Hba  
Arl6ip1  
Cops4  
Dsg1a  
Arfgef3  
Hhrrnph1  
Dst  
Apeh  
Bcat1  
Tecpr1  
Mboat7  
Gria1  
Ndel1  
Scamp1  
Ppm1h  
Ran  
Psmc4  
Cadm1  
Vapb  
Trnt1  
Mdga2  
Plxna1  
Grm7  
Asl  
Rundc3a  
Acbd6  
Ttc7b  
Tars2  
Coro2b  
Aldh18a1  
Grik3  
Ddx3x  
Slc3a2  
H2bc1

Stxbp5  
Crtac1  
Uqcrb  
Ppm1a  
Hprr1  
Gcdh  
Ddah2  
Calr  
Hbb-b1  
Mark2  
Wasf3  
Mlycd  
Flii  
Snap29  
Nrxn3  
Pls3  
Csnk2b  
Efnb3  
Atic  
Lrfn4  
Cdk16  
Ppid  
Abhd3  
Slc12a5  
Begain  
Suclg1  
Prickle2  
Ykt6  
Zer1  
Dlgap4  
Atp1b1  
Map2  
Xkr4  
Scn1a  
Acot10  
H2bc14  
Vps18  
Sh3glb1  
Vps11  
Actc1  
Vcp  
Mthfd11  
Cacna1b

Idh2  
Anxa7  
Katnal1  
Fam171a2  
Selenoi  
Purb  
Kctd16  
Vps13c  
Htt  
Got1  
Rpn1  
Tbcel  
Atp2a1  
Grin2b  
Fasn  
Dpp10  
Gak  
Psmc6  
Cd38  
Wfs1  
Gpd1  
Dhodh  
Pgm2  
Ndufs7  
Coq6  
Cacnb3  
Sorcs2  
Mgst3  
Acadsb  
Hacd3  
Gk2  
Grm8  
Ndufa9  
Pgs1  
Ppp1cb  
Stam  
Pag1  
Uchl3  
Osbp1a  
Mrps27  
Crip2  
Cacng2  
Stmn3

Lpcat4  
Slc7a5  
Sort1  
Nrxn2  
Aprt  
Eif3j1  
Cyc1  
Septin8  
Adrbk2  
Tanc2  
Scarb2  
Mtmr9  
Shmt2  
Mfsd4a  
Cd81  
Dync1li2  
Pip5k1a  
Ttc9b  
Prkab2  
Lrpprc  
Cpt1a  
Atp5f1b  
Nudt5  
Elmo1  
Arl6ip5  
H2ax  
Gga3  
Pld3  
Plppr4  
Snta1  
Trim3  
Iqsec2  
Atp5f1c  
Gdi1  
Dcun1d3  
Tsr2  
Atp2a2  
Wdr47  
Lrrc15  
Ptpn23  
Mmut  
Dctn2  
Acad9

Srprb  
Atp1a2  
Mapre3  
Crmp1  
Hist2h2aa1; Hist2h2aa2  
Ptpn11  
Ahcy  
Ndufs2  
Fahd2  
Dsp  
Mtap  
Capn5  
Eloc  
Fcsk  
Adgrl2  
Gna11  
Slc8a2  
Hist2h2bb  
Cnrip1  
Cacybp  
Sirpa  
H3-5  
Tomm22  
Ndufb11  
Gsk3a  
Grin1  
Gabra5  
Sgta  
Rab8b  
Ugt1  
Ppp3ca  
Gpx4  
Rptor  
Pof1b  
Snap47  
Atp6v1g2  
Syne1  
Usp9x  
Timm9  
Ubr4  
Cox15  
Coro1b  
Uba1

Atp6ap1  
Calcoco1  
Aldoc  
Tmem132a  
Psm8  
Dpysl5  
Lingo2  
Maip1  
Itgb2  
Ubxn6  
Gstm7  
Katnb1  
Abhd6  
Cdh2  
Vdac2  
Smap1  
Anxa2  
Vps33a  
Map6  
Pde4d  
Pptc7  
Cc2d1a  
Aak1  
Slc25a25  
Dhrs7  
Chmp4b  
Vac14  
Gmppb  
Rars2  
Copg2  
Eif6  
Vamp1  
Galk1  
Ehd3  
Aplp2  
Rabgap1  
Nsdhl  
Mthfd1  
Slc10a4  
Ddt  
Cacnb4  
Prnt3  
Bphl



Psm5  
Relch  
Dpp3  
Pak3  
Rab22a  
Rtn3  
Ggt7  
Pgam5  
Camk2d  
Abi1  
Pygb  
Cpne2  
Hspa12b  
Tenm2  
Nfs1  
Pdlim5  
Dnaja3  
Ndufa2  
Nedd4l  
Pycr3  
Mri1  
Snx30  
Ankrd34b  
Tuba3a; Tuba3b  
Shisa4  
Cdh10  
Aldh112  
Csde1  
Arhgap21  
Acacb  
Acsf3  
Shank2  
Pak1  
Cyfip2  
Acad8  
Pdk2  
Naca  
Kcnj10  
Pgrmc2  
Poldip2  
Tln1  
Epdr1  
Ubqln2

Asrgl1  
Tsg101  
Cct7  
Slc7a10  
Copb1  
Robo2  
Fyn  
Cmtm4  
Ca4  
Kirrel3  
Slc9a7  
Cops5  
Dmwd  
Syn2  
Vat1  
Dlg2  
Cadps  
Cacna2d1  
Acta2  
Aifm1  
Tmem121b  
Apoo  
Numb  
P2ry12  
Necap1  
Lman2  
Adora2a  
Ncstn  
Dtymk  
Rmnd5a  
Grm1  
Pik3r1  
Scamp5  
Syt5  
Acot1  
Pccb  
Fabp5  
Ppfia2  
Pfkp  
Tubb3  
Dtd1  
Clptm1  
Gpm6a

Nisch  
Mpp6  
Rcan1  
Pmpca  
Nt5c  
Eci1  
Asah1  
Galc  
Kcnma1  
Vps50  
Stx6  
Gnb5  
Afdn  
Tgm1  
Eif3l  
Calm2  
Snx4  
Pcyt2  
Dock10  
Ajm1  
Slc2a13  
Palm2  
Ampd3  
Unc13b  
Rab15  
Actb12  
Rab30  
Nck1  
Wnk2  
Lcp1  
Plxnb1  
Txnl1  
Nipsnap3b  
Arfgap1  
Snx27  
Atp5md  
Map2k1  
Tubg2  
Slc6a9  
Gsdma3  
Pacs2  
Ncan  
Arpc3

Lrrtm2  
Cntn4  
Kctd12  
Scn2b  
Atp6v1f  
Gabbr1  
Surf1  
Slc25a5  
Micu3  
Actn1  
Kbtbd11  
Wdr7  
Sdr9c7  
Clcn4  
Adprs  
Rhoa  
Rtcb  
Appl2  
Ndrg4  
Hace1  
Arg1  
Mink1  
Serpib1a  
Acaa1b  
Ndrg2  
Dnajb1  
Ryr2  
Cand1  
Hspa5  
Atg5  
Abat  
Skt  
Rims1  
Strn3  
Rpl13  
Tuba1a  
Slc25a10  
Mlst8  
Gps1  
Psmc3  
Gng3  
Ogt  
Rabggtb

Prrt2  
Slc12a6  
Pdk3  
G6pdx  
Cct3  
Calb1  
Chn1  
Pgm2l1  
Sh3gl2  
Mapt  
GOLGA7B  
Cndp2  
Palm  
At1l  
Isoc1  
Adh5  
Elob  
C1ql3  
Cryz  
Bcap29  
Agpat4  
Rmnd1  
Rars1  
Nptx1  
Rad23b  
Rab18  
Psmb7  
Ppa2  
Txnrd1  
Tubb4a  
Nccrp1  
Atp5pb  
Hsd1l2  
Pigs  
Slc1a3  
Cacng3  
Sv2b  
Dclk1  
Hsp90ab1  
Tomm20  
Pdha1  
Mtor  
Bcap31

Arfp2  
Tcp1  
Ephx1  
Glul  
Tollip  
Rab3b  
Mpp3  
Lrrc4b  
Mtatp6  
Vcpip1  
Slc9a1  
Arhgap23  
Emc1  
Atp6v1e2  
Arl8a  
Fmnl1  
Adam22  
Tiprl  
L2hgdh  
Epb41l3  
Stat1  
Vps26b  
Psm3  
Mydgf  
Znr2  
Scai  
Vps29  
Dagla  
Rab6b  
Vps4a  
Prps1  
Ppp2r1a  
Nedd4  
Mrps23  
Rps5  
Gspt2  
Clip1  
Tmem63b  
Pde1a  
Nudt10  
Ndufa6  
Diras1  
Sik3

Cyria  
Rdx  
Nbea  
Acot9  
Syng1  
Bcl2l13  
Sncg  
Rab27b  
Vamp7  
Blmh  
Slc24a4  
Pgm3  
Pdcd10  
Syt3  
Gpr158  
Carm1  
Gsr  
Hsd17b10  
Trappc4  
Kif21a  
Cdipt  
Wipf3  
Sult4a1  
Fkbp8  
Adgrb1  
Acsl3  
Rnf214  
Gas7  
Cntn1  
Itgb8  
Abhd17a  
Ndufc2  
Ak1  
Cct6b  
Neb1  
Mark1  
Slc32a1  
Gprin1  
Xpo7  
Git2  
Pgbd5  
Ndufb10  
Slc25a42

Nefh  
Mat2b  
Aldh1b1  
Tjp1  
Gstp2  
Cdc37  
Cct8  
Svop  
Mical3  
Mrs2  
Ndufb4  
Hsd17b13  
Pdhx  
Aldh1a1  
Mapk8  
Grin2a  
Rpn2  
Aldh1a7  
Nt5e  
Gapdh  
Eif5a  
Camk2a  
Tgm3  
Ech1  
Nme2  
Cplx2  
Fam136a  
Gfra2  
Traf3  
Abcb8  
Akr1b7  
Lrp1b  
Slc1a2  
Mag  
Hcn2  
Cox5a  
Armc8  
Gucyl1a1  
Gdpd1  
Tmem143  
RTRAF  
Rps2  
Synj2bp



Rogdi  
Septin11  
Glr3  
Cacng8  
Psm6  
Hagh  
Sucla2  
Cyp46a1  
Mdh1  
Mapre2  
Mapre1  
Ttyh3  
Gsdma2  
Uqcr10  
Tenm1  
Cpt2  
Rimbp2  
Atp2b2  
Map4  
Vps35  
H2bc11; H2bc13; H2bc15; H2bc7  
Hars1  
Sfxn1  
Commd3  
Cox6c  
Bin1  
Cfl2  
Csm1  
Rap2b  
Gsta4  
Sh3glb2  
Srgap2  
Wars1  
Kif2a  
Sgsm1  
H2bc12  
Pip5k1c  
Arrb1  
Arhgdia  
Suclg2  
Slc6a11  
Ociad1  
Septin5

Myo6  
Epn2  
Ppp2r2c  
Ass1  
Timm23  
Cpe  
Arl15  
Pdyn  
Hecw2  
Afg3l2  
Napg  
Aifm3  
Gapdhs  
Ubtd1  
Spr  
Ppox  
Actr1a  
Paics  
Irgm1  
Rab11a  
Gnas  
Jup  
Rtn1  
Gja1  
Dgke  
Erlin2  
Myh9  
Lysmd2  
Dap3  
Akr1e2  
Gpsm2  
Prdx3  
Tmem256  
Lancl1  
Gde1  
Fermt2  
Slc30a9  
Ap2a1  
Ppp2r5c  
Adss2  
Ntng2  
Smyd5  
Ppp6c

Adprh  
Eef1a2  
Mfsd6  
Prkar2a  
Itgam  
Slc6a6  
Ndufaf3  
Coa3  
My112b  
Hnrnpa2b1  
Rab33b  
Gabra3  
Ccde51  
Acp6  
Rack1  
Cops3  
Zzef1  
Rgs6  
Lap3  
Acyp1  
Capn1  
Gria2  
Psm14  
Gabra2  
D1Pas1  
Chordc1  
Stoml2  
Rps6ka1  
Tomm401  
Cpne8  
Prmt8  
Hpcal1  
Apba1  
Ap1m2  
Arf5  
Ndubf7  
Nckap1  
Prkcg  
Dnm3  
Acat1  
C2cd5  
Grb2  
Coa7

Tpi1  
Tpm2  
Hhrnph2  
Mpc2  
Smcr8  
Dsg1b  
Tsn  
Ap2s1  
Iglon5  
Kpnb1  
Ahsa1  
Btbd17  
Oga  
Cnksr2  
Lrrtm1  
Pip4p2  
Ntrk3  
Rab39b  
Atp6v1h  
Rhot2  
Slc2a3  
Fth1  
Pkm  
Mapk1  
Cmpk1  
Cops8  
Hist1h2af  
Arhgef12  
Amph  
Nlgn4l  
Aldh3a2  
Pdia4  
Stxbp3  
Ttc1  
Nck2  
Nfu1  
Hspa9  
Fbxo3  
Tpd52  
Gmppa  
Elfn2  
Clic4  
Prep

Atg2b  
Psmc6  
Ccde177  
Rab24  
Rnf141  
Ipo4  
Abr  
Cdk14  
Slc6a17  
Ii1rap1  
Trpv2  
Slc25a20  
Dnaja2  
Cnm1  
Psm7  
Ppp6r1  
Atp6v1g1  
Sod1  
Pitrm1  
Dbnl  
Ppp1ca  
Tmem9b  
Msn  
Adam11  
Fbxo41  
Dnajb4  
Nipsnap2  
Mtc1  
Rab5a  
Gabrg2  
Picalm  
Slc44a1  
Pura  
Irgq  
Fam177a1  
Osbp12  
Dpysl4  
Vdac1  
Gpd2  
Psmc5  
Exoc5  
Dctn1  
Flna

Mfn2  
Ptges3  
Tenm3  
Mccc2  
Tmx1  
Alg2  
Pgam1  
Hspd1  
Chmp1a  
Gmps  
Ctnnd2  
Sorcs3  
Maob  
Slmap  
Soga3  
Wbp2  
Plxnc1  
Msra  
Tnr  
Isyna1  
Pex5l  
Negr1  
Sri  
Ddx1  
Stim1  
Tpbp  
Grik5  
Uchl5  
Pitpna  
Mlc1  
Arhgap39  
Fgf12  
Fibp  
Stmn2  
Ak5  
Echdc1  
Setd7  
Babam1  
Akap12  
Glod4  
Rps6ka3  
Kif1b  
Dync1h1

Stum  
Timm13  
Mtmr2  
Ca2  
Mtfp1  
Uqcrq  
Sec23a  
Rap2a  
Vps25  
Ezr  
Plaa  
Dync11i1  
Nap111  
Lin7a  
Abhd10  
Taok1  
Tm9sf3  
Prnp  
Rps13  
Ctsd  
Tesc  
Grpel1  
Wdr48  
Cox6b1  
Actg2  
Usp7  
Eea1  
Acat2  
Camkk2  
Brinp1  
Atp1a3  
Tkt  
Uso1  
Trim32  
Gdi2  
Mrpl12  
Pdpk1  
Atp5f1d  
Scfd1  
Rap1gap2  
Cd47  
Ndufs1  
Cul2

Crat  
Vps13a  
Timm29  
Akr7a2  
Ckap4  
Nefm  
Clip2  
Slc18a3  
Epb41  
Fsd1  
Atp5mg  
Ptpn9  
Acaca  
Psm13  
Epha4  
Nlgn2  
Mtmr1  
Cny  
Coq3  
Sar1a  
Cadps2  
Cisd1  
Kif5a  
Dctn5  
Vapa  
Agk  
Tubg1  
Pip4k2c  
Exoc8  
Thsn1  
Vsn1  
Cdc42  
Git1  
Acsl6  
Gsto1  
Opa1  
Dbn1  
Vps33b  
Sec61a1  
Slc25a3  
Ctbp1  
Gap43  
Prune1



Erp44  
Hsp90aa1  
Appl1  
Cat  
Clcn6  
Clcn3  
Arpc2  
Get4  
Cpne3  
Ndr3  
Slc25a4  
Pnp  
Dip2b  
Ptk2  
Psm2  
Lrpap1  
Sh3gl1  
Chkb  
Fabp3  
Marchf5  
Olfm2  
Dlg1  
Pgam2  
Cops7a  
Gba  
Cryz1  
Csrp1  
Septin2  
Them4  
Slc6a1  
Rapgef4  
Kent1  
Mat2a  
Retreg2  
Gnb1  
Aldh8a1  
Rala  
Ndufs6  
Lmna  
Clic1  
Impact  
Ptges2  
Pak2

Myl6  
Cryab  
Copb2  
Tmem30a  
Sema7a  
Hint1  
Cltc  
Padi2  
Tpd52l2  
Psat1  
Brsk1  
Sgtb  
Ywhab  
Ptrh2  
Capn2  
Timm50  
Ide  
Hdhd3  
Lmtk2  
Map2k6  
Fkbp1a  
Tppp3  
Srm  
Ube2n  
Nsfl1c  
Cyfip1  
Mlec  
Slc12a9  
Grm3  
Aheyl1  
Thop1  
Slc12a2  
Cit  
Sec31a  
Anxa3  
Ctnnb1  
Impa1  
Farp1  
Aldh1l1  
Pitpnc1  
Jam3  
Acvr1b  
Csnk1e

Sfxn5  
Plpp3  
Kalm  
Eif4e  
Vkorc111  
Adk  
Ddx19a  
Acta1  
Trap1  
Madd  
Pcbp1  
Cldn11  
Cacna2d2  
Sdhb  
Ncln  
Mtpn  
Sptan1  
Selenbp1  
Aldh5a1  
Sugt1  
Tpt1  
H2bc4; H2bc6; H2bc8  
Hint2  
Osbp  
Plxnb2  
Acadm  
Hint3  
Pabpc1  
Gnl1  
Igbp1  
Nagk  
Vps26a  
Bcas3  
Hspa12a  
Ssr1  
Dlat  
Gpr52  
Micu1  
Cd200  
Pacs1  
Strap  
Inpp5a  
Rab3gap2

Srpk2  
Camkv  
Dgki  
Mtn4  
Iqsec3  
Gba2  
H3-3a; H3-3b  
Aren1  
Arfgef1  
Psm2  
Lancl2  
Ttpal  
Unc13c  
Sh3kbp1  
Mmab  
Aldh7a1  
Prkar2b  
Slk  
Atp2a3  
Wdr45  
Lgalsl  
Dnpep  
Rab3c  
Bcr  
Dld  
Nit1  
Gget  
Mtx1  
Plscr3  
Ndr1  
Tab1  
Eps15l1  
Cyb5r1  
Fbxo2  
Eipr1  
Slc1a6  
Lrrc57  
Prpsap2  
Camk2b  
Inpp4a  
Iqcb1  
Atp6v0a1  
Lrp1

Islr2  
Ina  
Gabrb2  
Stx16  
Bmerb1  
Serpinb6  
Dsg1c  
Tagln2  
Xpo1  
Ist1  
Coro1a  
Arf1  
Sco1  
Rnh1  
Calml3  
Bmpr2  
Hadh  
Mrps31  
Atad3  
Srcin1  
Epm2aip1  
Atp5fle  
Atp6v1d  
Pafah1b3  
Pepd  
Stx4  
Pdpr  
Septin4  
Ppa1  
Nme1  
Abcg2  
Slc25a11  
Ap2m1  
Pdhb  
Lmbrd2  
Rftn2  
Acadv1  
Ndufb8  
Snx2  
Uqcc1  
Add3  
Caskin1  
Arl1

Wdr54  
Synrg  
Mtf1l  
Cfl1  
Uqcrc2  
Tmem65  
C2cd2l  
Tmx4  
Acaa1a  
Uqcrfs1  
Asphd2  
Itp1  
Psmc2  
Atp2b1  
Ppib  
Gabarapl2  
Naxe  
Pitpnm1  
Pik3c3  
Dynll1  
Hal  
Rad23a  
Mdh2  
Adecy9  
Ntng1  
Rtn4  
Cep170  
Fhl1  
Afg3l1  
Abcb9  
Mccc1  
Capza2  
Hars2  
Blvra  
Sacm1l  
Gfm1  
Rcn2  
Pls1  
Erp29  
Prdx2  
Lysmd1  
Cops6  
Ube2k

Slc7a2  
Atp9a  
Marcks  
Hsd1l  
Pmpcb  
Rnpep  
Gpr88  
Epn1  
Scn3b  
Atp1b3  
Ncs1  
Mapk8ip3  
Psmc1  
Tenm4  
Sdhd  
Crkl  
Map1b  
H3c1; H3c10; H3c11; H3c8  
Prmt1  
Por  
Kcna2  
Aqp4  
Sars1  
Septin6  
Cnr1  
Ndufa7  
Opa3  
Aspa  
Lamtor1  
Rasl2-9  
Scp2  
Nol3  
Rpsa  
Bsn  
Mapk3  
Vgf  
Lrtm2  
Dync1i2  
Rab9a  
Hsp90b1  
Tcbp  
Oplah  
Ap2a2

Cbr4  
Dnaje5  
Cap1  
Hk2  
Stub1  
Ptd3  
Plcb1  
Srgap3  
Cspg5  
Gk  
Rab5c  
Ppp3r1  
Rab6a  
Ogdh  
Reps1  
Lgi1  
Igsf8  
Arf4  
Rplp0  
Pcyox1  
Diras2  
Ivd  
Rabgef1  
Gstk1  
Atp5po  
Itgav  
Tsfm  
Pik3r4  
Agap3  
Dhrs4  
Araf  
Ncdn  
Vim  
Colla2  
Prodh  
Rabep1  
Tamm41  
Pdcd6ip  
Aloxe3  
Slc38a3  
Pck2  
Flot2  
Tuba4a



Gnai3  
Slc4a3  
Emc2  
Psmb1  
Synpr  
Tmx3  
Efr3b  
Prkar1b  
Rhot1  
Agap1  
Hyou1  
Nsf  
Acot11  
Cpm  
Psmb5  
Daam1  
Dtnb  
Tm9sf2  
Atg16l1  
Wdr77  
Rab10  
Aars1  
Twf2  
Slc25a13  
Dnajb2  
Idh3a  
Prkar1a  
Gch1  
Neto2  
Ryr3  
Arhgef7  
Kiaa1549  
Prxl2b  
Ftl1  
Synj1  
Hpcal4  
Eif4b  
Aco1  
Fam126b  
Snca  
Taldo1  
Aco2  
Maoa

Hspa4  
Map1lc3a  
Asic1  
Nrbp2  
Cct4  
Vps51  
Gstm5  
Slc22a23  
Glr5  
Timmec1  
Sv2a  
Rab23  
Ado  
Pten  
Glud1  
Abhd12  
Ndufv1  
Cs  
Psmc7  
Ephx2  
Slpr1  
Chrb2  
Ap1g2  
Slc25a23  
Cad  
Actb  
Pam  
Rab7a  
Eno1  
Actr2  
Prmt1  
Aldoa  
Lin7c  
Ap3b1  
Acot7  
Klc2  
Mtch1  
Phyhip1  
Pip5k1b  
Acy6  
Heatr5b  
Slc4a8  
Rac1

Tom1  
Actr10  
Mpi  
Pgl3  
Adam10  
Wdr1  
Exog  
Spg7  
Thy1  
Akap7  
Nptxr  
Myo18a  
Cntnap2  
Ndufa13  
Vat11  
Bdh1  
Entpd2  
Npepps  
Arl2  
Wdr37  
Agpat5  
Ccdc136  
Tpd5211  
Myadm  
Ndufa4  
Hibadh  
Osbp110  
Psmb4  
Cpne9  
Eef1b  
Aplg1  
Hccs  
Memo1  
Arhgef6  
Tfrc  
Ank2  
Fxyd6  
Ptpn2  
Alcam  
Ap3m2  
Anxa4  
Plcg1  
Cacna1a

Snx1  
Lamp2  
Ap1m1  
L1cam  
Usp15  
Eci3  
Eml5  
Sorbs2  
Tars1  
Kiaa0513  
Rapgef2  
Ube2v2  
Klc1  
Mpst  
Spcs2  
Gmpr  
Cops2  
Sec22b  
Arhgap32  
Csnk2a1  
Gatd3a  
Psm1  
Ube2o  
Dlg4  
Hip1  
Pfn1  
Plcd1  
Ube3a  
Stx1b  
Stip1  
Elmo2  
App  
Gnaz  
Ndufa11  
Dennd11  
Ldha  
Atp6v1a  
Celsr2  
Cul1  
Gabbr2  
Psm12  
Cnp  
Ppm1f

Prkcsh  
Hexb  
Tmem126a  
Eif4a1  
Napa  
Ppp1r9b  
Dynlrb1  
Plxnd1  
Atp5mf  
H2ac20  
Cct5  
Atp2b4  
Cul3  
Exoc3  
Gstm1  
Ywhag  
Fah  
Ndufb5  
Vps52  
Basp1  
Hip1r  
Rufy3  
Nefl  
Cap2  
Hsd17b12  
Lsamp  
Nif311  
Dad1  
Glg1  
Snx6  
Phyhip  
Syt7  
Gnb4  
Mtnd5  
Gdap1  
Avl9  
Cltb  
Elmod2  
Ppp2r5e  
Aldh6a1  
Fundc2  
Src  
Fkbp4

Tmem163  
Slc25a46  
Oxsr1  
Cadm3  
Tbcd  
Vwa8  
Eif5  
Arpc5  
Trappc9  
Endod1  
Rdh14  
Prdx6  
Me1  
Gaa  
Pc  
Gabbr3  
Gsn  
Neo1  
Crk  
Atp6v0d1  
Xpnpep1  
Mras  
Mt-Cyb  
Nans  
Tdrkh  
Wdr13  
Csnk1a1  
Sgip1  
Becn1  
Ehd1  
Mapk10  
Exoc4  
Cpt1c  
Necab1  
Hdhd2  
Plec  
Eif3e  
Sirt5  
M6pr  
Kcnab2  
Ndufs5  
Tsc2  
Ugp2

Plch2  
Dynl12  
Stmn1  
Sigmar1  
Prkaca  
Nudt3  
Tomm70  
Sptb  
Olfm1  
Slc44a2  
Exoc7  
Septin3  
P4hb  
Hspa8  
Plcl2  
Pgrmc1  
Reep5  
Dusp3  
Gpc4  
Pfkf  
Pitpnb  
Tmem11  
Zfyve1  
Nfasc  
Itsn1  
Agpat1  
Kpna3  
Tnpo3  
Fam162a  
Kifap3  
Pcyox11  
Atg7  
Kif1a  
Mbp  
Ckmt1  
Abl2  
Stk11  
Uchl1  
Adgrb3  
Gripap1  
Ak4  
Exoc6b  
Sdha

Epb4112  
Slc25a51  
Lgals3  
Psmc3  
Eif5a2  
Cycs  
Kcna6  
Nap114  
Nadk2  
Cyb5b  
Mtco2  
Tnik  
Hspe1  
Actr3  
Itpa  
Lasp1  
Acsbg1  
Nme3  
Ciapin1  
Gucy1b1  
Wdfy3  
Cmpk2  
Vti1b  
Htra2  
Czib  
Stx1a  
Pasma6  
Tppp  
Tfam  
Pcsk2  
Serpib5  
Nlgn3  
Dpysl3  
Cxadr  
Ppp1r7  
Acp1  
Bckdk  
Mtch2  
Dars1  
Mtnd1  
Grk2  
Rgs7  
Erc1



Fh  
Ipo7  
Gdpd5  
Rab1b  
Evl  
Apoe  
Cntfr  
Deer1  
Cdc42bpa  
Eps15  
Pdxk  
Pgap1  
Strn  
Agfg1  
Ppp6r2  
Pgp  
Ddhd2  
Fmnl2  
Hspa1a  
Plexd3  
Dnm11  
Acsl5  
Lrrc8b  
Nipsnap1  
Myh10  
Tubb2a  
Dbt  
Armc10  
Vps16  
Ptpre  
NARS1  
Acly  
Ckap5  
Cpne4  
Ppt1  
Ptprij  
Gltp  
Prkce  
Rab35  
Cdk17  
Arhgap44  
Sfxn3  
Samm50

Hgs  
Ica1  
Map2k4  
Lnpk  
Lpgat1  
Atpaf1  
Slc25a44  
Nlgn1  
Upf1  
H2ac12  
Bles03  
Gnai1  
Naxd  
Lrrc4c  
Apmmap  
Gng2  
Hadhb  
Ranbp9  
Creld1  
Pafah1b2  
Cask  
Daam2  
Man2c1  
Syn3  
Atp5me  
Ndufb9  
Etfdh  
Gnpda1  
Acox1  
Osbp18  
Slc7a8  
Gnb2  
Ap3s2  
Grik2  
Fam131b  
Zadh2  
Bpnt1  
Capza1  
Csmd3  
Nectin1  
Map1s  
Rragd  
Ptpa

Alad  
Ppp2r2a  
Rnf14  
Slc23a2  
Atp1b2  
Hmgcl  
S100a11  
Anxa6  
Scrn1  
Srr  
Pemt1  
Ric8a  
Cpnc1  
Rps3  
Sdk2  
Kif5b  
Reps2  
Etf1  
Add2  
S100a14  
Sfn  
G6pd2  
Eif3i  
Atp6v1c1  
Pclo  
Pip4k2a  
Sdhc  
Nudt16  
Vps36  
Tspan7  
Tmx2  
Prdx1  
Tcp1l1l  
Sparc1  
Rab11fip2  
Ppp2r1b  
Rab5b  
Trappc1l  
Ptprr  
Hsph1  
Rock1  
Dhrs1  
Cldnd1

Selenbp2  
Slc25a24  
Acsf2  
Tagln3  
Abcd3  
Lrrtm4  
Ndufaf1  
Anxa1  
Acadl  
Itfg1  
Ttyh1  
Itgb1  
Kctd8  
Rhoc  
Atg9a  
Plpbb  
Pycr2  
Arfgef2  
Clta  
Prpsap1  
Rph3a  
Ccde127  
Myo5b  
Adck1  
Dnaja4  
Clpp  
Nit2  
Anxa1  
Kif17  
Fscn1  
Arf3  
St13  
Flot1  
Slc25a14  
Cse1l  
Fn3k  
Hspa4l  
Cpne6  
Guk1  
Cab39  
Bnip3  
Gatd1  
Ppp1r12a

Adrm1  
Comtd1  
Ftl2  
Ppp2r5a  
Gria4  
Pdk1  
Vwa5a  
Gpi  
Rras2  
Tmod2  
Chl1  
H3c13; H3c14; H3c15; H3c2; H3c3; H3c4; H3c6;  
H3c7  
Sec14l2  
Pcca  
Atp6v0a2  
Cyrib  
Slc17a7  
Dstn  
Lonp1  
Mark3  
Vdac3  
Ppm1b  
Vars1  
Brsk2  
Sdr39u1  
Ddx3y  
Susd2  
Ppp1r21  
Ssr4  
Hspa2  
Ywhaz  
Cdc42ep4  
Cacnb1  
H2az2  
Dgkz  
Dip2a  
Tmed9  
Sncb  
Prune2  
Ddost  
Ddah1  
Atad1  
Mtx2

Vamp3  
Hadha  
Emc3  
Grhpr  
Pacsin1  
Extl2  
Neto1  
Myl9  
Ergic1  
Gclc  
Dgkq  
Dmtn  
Ctnnd1  
Auh  
Trio  
Cntnap4  
Rpl27a  
Mecr  
Ptp4a1  
Tubb5  
Ap3d1  
Pnpla8  
Mal2  
Ralb  
Fam114a2  
Dock4  
Mog  
Ampd2  
Dtna  
Gsk3b  
Rpl15  
Lypla2  
Slc25a12  
Rdh11  
Lamp5  
Vta1  
Rbbp9  
Gna13  
Nucb1  
Mrpl39  
Twf1  
Denr  
Igsf21

Hibch  
Kend2  
Nomo1  
Cdip1  
Vbp1  
Ndufs8  
Gstz1  
Plxna4  
Snx16  
Dnajib11  
Lin7b  
Skp1  
Pkp1  
Fam210a  
Vcam1  
Prdx5  
Vti1a  
Smap2  
Spryd7  
Trim9  
Add1  
Atg3  
Babam2  
Rab4b  
Eno2  
Clasp2  
Hcn1  
Gsdma  
Arhgap26  
Abcb10  
Park7  
Wasf1  
Bcan  
Efhd2  
Nipa1  
Itm2b  
Slc5a7  
Arhgap1  
Dctn4  
Gad2  
Hbb-b2  
Plgrkt  
Map1a

Prkcb  
Pgd  
Cul5  
Hebp1  
Slc4a10  
Ndufa8  
Rragc  
Iba57  
Ubt2  
Phf24  
Acsl1  
Dync1i1  
Slc8a1  
Flad1  
Nwd2  
Gdap11  
Epb411  
Slc9a3r1  
Aldh4a1  
Ppp2cb  
Sars2  
Ppp3cb  
Clvs1  
Syng3  
Rap1b  
Camkk1  
Fbx14  
Eif3j2  
Akr1b1  
Atp8a1  
Gstm3  
Syt1  
Acaa2  
Tsc1  
Phb  
Sirt2  
Agap2  
Psm8  
Psm1  
Itp3  
Jagn1  
Ppp1cc  
Enpp6



Tbrg4  
Nae1  
Slc4a4  
Coasy  
Ubfd1  
Mob4  
Oat  
Huwe1  
Sbf1  
Ddb1  
Pgk1  
Apbb1  
Akr1a1  
Ncam1  
Ccdc6  
Ctnbp2  
Oxr1  
Prkacb  
Hmox2  
Hspbp1  
Ndufs3  
Pex14  
Trim2  
Slc7a14  
Gpx1  
Ola1  
Gpd11  
Mblac2  
Ap2b1  
Gda  
Dmx12  
Etfb  
Clu  
Eif4h  
Ddi2  
H2bc9  
Ufc1  
Stx12  
Ndufb6  
Lhfp14  
Eif4a2  
Prxl2a  
Ttc9

Oscp1  
Faah  
Rhog  
Exoc2  
Prkca  
Mgl1  
Efr3a  
Canx  
Pcd6  
Myh14  
Gfod1  
Coq5  
Slc35f1  
Lrrc47  
Abraxas2  
Ndufa10  
Timm44  
Rmdn3  
Got2  
Kif5c  
Chp1  
Vps45  
Esd  
Tpm1  
Emb  
Dlgap1  
Acap2  
Pdp1  
Eppk1  
Shank1  
Abhd16a  
Rab14  
Bckdha  
Gabbr1  
Eprs1  
Unc5a  
Idh1  
Dlst  
Ly6h  
Uqcr1  
Me2  
Hapln1  
Mtatp8

Gart  
Scn1b  
Snx5  
Ehd4  
Ncam2  
Itm2c  
Cox5b  
Gabra4  
Snap25  
Gfap  
Ptpn  
Cadm2  
Rpl3  
Hsd17b11  
Cntnap1  
Dglucy  
Gmds  
Rps9  
Insrr  
Acot2  
Arpc4  
Pfn2  
Sh3gl3  
Scn2a  
Pgm1  
Csnk2a2  
Fis1  
Prss2  
Fnbp1  
Arf6  
Nrxn1  
Vipas39  
Sptbn1  
Bsg  
Dlg3  
Nptn  
Psmb3  
Efhd1  
Ernm  
Eml2  
Slc1a4  
Camk2g  
Ptpnf

Armc1  
Mif  
Phgdh  
Mrtfb  
Fry  
Nqo2  
Pdia6  
Glx  
Stk39  
Ank3  
Armc6  
Magi2  
Prpf2  
Ralgapa1  
Slc6a7  
Trappc12  
Slc25a1  
Arl3  
Itp2  
Nceh1  
Tmem35a  
Rab2a  
Arhgef9  
Plxna3  
Ndufa3  
Bcs1l  
Chchd3  
Atcay  
Gnao1  
Zmpste24  
H2aw  
Nampt  
Slc2a1  
Inpp1  
Ptpa  
Ccz1  
Gpc1  
Ap3m1  
Faim2  
Aldh9a1  
Ptp4a2  
Atp5f1a  
Stx3

Cep170b  
Atp6v1b2  
Ndufa12  
Eci2  
H2ac7  
Scyl2  
Stx7  
Ctnn  
Stxbp1  
Spart  
Serinc1  
Zc2hc1a  
Lxn  
Oxct1  
Anxa5  
Pygm  
Mtarc2  
Ube2v1  
Sorbs1  
Gapvd1  
Gria3  
Phb2  
Rab1A  
Usp24  
Adsl  
Wdr44  
F3  
Ndufv2  
Ap3b2  
Taok3  
Psm5  
Rab31  
Ipo9  
Psm4  
Bsd1  
Iars2  
Enoph1  
Ndufaf5  
Ranbp1  
Dpysl2  
Cntn2  
Letm1  
Echs1

Mocs3  
Erc2  
Tpp2  
Slc27a4  
Ppp6r3  
Fnbp11  
Coro1c  
Pkp4  
Ggps1  
Gstp1  
Cdc42bpb  
Septin7  
Sccpdh  
Pef1  
Cyb5a  
Frrs11  
Clybl  
Gars1  
Lrrc8a  
Get3  
Bag6  
Kcna1  
Ppme1  
Tubgcp2  
F8a1  
Rab8a  
Shisa9  
Them6  
Pin1  
Fmnl3  
Dock9  
Mcts1  
Slc25a22  
Brec3  
Hspa1b  
Dnajb6  
Nt5c3a  
Tubb2b  
Hk1  
Ptprd  
Lrrtm3  
Psd3  
Kazn

Psmc9  
Scamp3  
Gnai2  
Gspt1  
Numbl  
Nfl  
Ubal1  
Adgr1  
Wwox  
Slc16a1  
Ruvbl1  
Dnajc6  
H4c1; H4c11; H4c12; H4c14; H4c2; H4c3; H4c4;  
H4c6; H4c8; H4c9; H4f16; Hist1h4m  
Usp14  
Prmt5  
Rab21  
Cdh13  
Ipcef1  
Lactb  
Cars1  
Qdpr  
Vcl  
Tufm  
Scrn3  
Fsd11  
Syp  
Enah  
Pdxp  
Rida  
Tmem43  
Prkag1  
Rpl11  
Adgrl3  
Ywhaq  
Atf2  
Sphk2  
Pcdhga4  
Pafah1b1  
Coq9  
Bag5  
Ap3s1  
Rpl12  
Syt12

H2ac15  
 Sco2  
 Usp5  
 Lmtk3  
 Ncald  
 Slc25a40  
 Lamp1  
 Uhrf1bp11  
 Cbr1  
 Aldh2  
 Ywhah  
 Nckipsd  
 Camsap3  
 Actr1b  
 Psmc1  
 Ntm  
 Dnaja1  
 Ganab  
 Slc29a1  
 Cotl1  
 Hist1h2bp  
 Abcb7  
 Ctsb  
 Fdps  
 Tln2  
 Plppr3  
 Rp2  
 Rheb  
 Actr3b  
 Ak3  
 Ahcy12  
 Uchl4  
 Tph2  
 Ckmt2  
 Ap1b1  
 Mpp1  
 Snph  
 Fgf14

Primary Cultured Cell

Common	Mouse Proteome Residual	DA-FASS Proteome Residual
Ndufa5	Sorbs3	Rab4a
Lingo1	Dcun1d2	Abi2
Nt5dc3	Usp20	Dmxl1



Gstm2	Bbs9	Clvs2
Stxbp51	Mon1b	Ube2l3
Tbc1d24	Ptgr1	Ruvbl2
Snap91	Spock2	Tmod1
Astn1	Nav3	Shroom2
Sarm1	Dysf	H2bc3
Smpd3	Lpxn	Arpc1a
Ntrk2	Apobr	Glde
Slc17a6	Strbp	Mcu
Gad1	Dnahc9	Gphn
Pmm1	Ppfibp1	C2cd4c
Necab2	Fcrls	Psma4
Nos1	Nsg1	Ppm1e
Adam23	Irf5	Mrps22
Camk4	Myo1b	Tmed10
Calb2	Ca13	Capzb
Gabra1	Gbp7	Cyb5r3
Rac3	C1qtnf4	Septin9
Vamp2	Tmed8	Otub1
Hepacam	Pcdh8	Syt2
Napb	Rtkn	Ppia
Mpp2	Slc1a4	Blvrb
Plp1	Tmem88b	Rap1a
Vcan	Cdk6	Hsd17b8
Syn1	Tlr2	Sar1b
Doc2a	Vangl2	Ak2
Dock3	Ptprk	Dctn3
Unc13a	Kit	Plppr1
Rab3a	Ccp110	Olfm3
Magi1	Akr1c14	Ret
Dpp6	Tap2	Faf2
Fahd1	Chd3	Hsd17b4
Ptprs	Ganc	Actn4
Rasgrp2	Nudt8	Ppp5c
Cry1l	Nt5dc1	Dcc
Gpsm1	Hbegf	Rhob
Ppfia3	Nmi	Psm11
Arfgef3	Il6st	Ermp1
Gria1	Nid2	Psph
Mdga2	Tor3a	Glo1
Plxna1	Baz1a	Tigar
Ttc7b	FRRS1	Dhrs7b
Stxbp5	Dab2	Slc38a1

Hbb-b1	Scpep1	Gpr3711
Nrxn3	Arap3	Trappc3
Efnb3	Ptpn6	Tom112
Prickle2	Tsga10	Arih1
Zer1	Bcas1	Omg
Atp1b1	Serpib8	Yars1
Cacna1b	Aif1	Gss
Fam171a		
2	Plce1	Impdh2
Kctd16	Spnb3	Atp1a1
Dpp10	Rtn4rl2	Etfa
Grin2b	Gpam	Immt
Cd38	Trim30a	Pank4
Gpd1	Pla2g7	Tmem33
Cacnb3	Serpini1	Tprg11
Mgst3	Tusc3	Cend1
Crip2	Tns3	Arf2
Stmn3	Rgs12	Pithd1
Nrxn2	Trim67	Dnajc11
Tanc2	Pdlim2	Stk24
Cd81	Pcgf2	Vps4b
Ttc9b	Mrps33	Rab9b
Trim3	Pf4	Slc30a1
Dcun1d3	Pir	Prkag2
Wdr47	Jakmip1	Stt3a
Crmp1	Elavl3	Nrcam
Capn5	Man2b1	Vps53
Slc8a2	Csf2rb	Krt16
Akap5	Gm5483	Lypla1
Cacna2d3	Fbn1	Txndc5
Tomm22	Mt1	H2az1
Grin1	Hmgcr	Ttc39c
Phactr1	Dhrs11	Camk1d
Tmem13		
2a	Fyb	Psmf1
Dpysl5	Sardh	Letmd1
Itgb2	Sfrp1	Cdk5
Gstm7	Megf8	Sod2
Abhd6	Mocos	Cct2
Nedd41	Adcy7	Dlgap3
Shank2	Pak6	Idh3g
Cyfp2	Dcx	Pick1
Kcnj10	Atp2b3	Strn4
Robo2	Parp3	Tnpo1

Syn2	Zbp1	Krt23
Dlg2	Tab3	Cox4i1
Cadps	9030617003Rik	Atp6v1e1
Cacna2d1	Mrps17	Chchd6
Scamp5	Ctss	Cds2
Syt5	Odz4	Spata21
Acot1	Afap112	Spag9
Ppfa2	Trpc4ap	Drd1
Tubb3	Scamp2	Asap1
Gpm6a	Pvr11	Txnrd2
Kcnma1	Pla2g4a	Arpc51
Gnb5	Atat1	Grid1
Tgm1	Reln	Kcnc1
Dock10	Zfp185;Znf185	Eef1g
Rab15	Ehbp111	Arl8b
Wnk2	Gjc1	Cdh11
Lcp1	Nfkbie	Rab12
Slc6a9	Gm5431	Mindy2
Scn2b	B2m	Pfkl
Ndrg4	Sox10	Pacsin2
Arg1	Tmem106a	Idi1
Ryr2	Atp8a2	Sec13
Rims1	Adamts4	Ndufs4
Calb1	Smpd13a	Ldhb
Chn1	41888	Clint1
Pgm211	Lonrf2	Tst
Sh3gl2	Slc15a2	Hnrnpk
Mapt	Ctsa	Paip1
Palm	Gpc2	Nln
At11	6430704M03Rik	Stx8
Tubb4a	Dopey1	Mdp1
Slc1a3	Vamp8	Cystm1
Dclk1	Myo1f	Sv2c
Sv2b	Sox8	Dcaf7
Ephx1	Myt11	Pdia3
Mpp3	Casp1	Capns1
Ptpn5	Tep1	Scn4b
Fmn11	Atrnl1	Cadm4
Plxna2	Txndc15	Pi4k2a
Adam22	Card9	Aimp1
Scai	Elavl2	Gnaq
Rab6b	Sipa1	Pip4k2b
Tmem63		
b	Kcna4	Cacng4

Pde1a	Igfbp3	Ywhae
Nbea	Edil3	Atp6v0a4
Sult4a1	Crygs	Gbe1
Nebi	Sp4	Aida
Mark1	Arhgap9	Sord
Slc32a1	Nfatc2	Macf1
Gprin1	Cd300lh;OTTMUSG00000003606	Ctbp2
Pgbd5	Cyth4	Lyst
Svop	Hmha1	Ap1s1
Grin2a	Avil	Bcl2l1
Camk2a	Fbxo45	Rab3gap1
Mag	Gucy1b3	Myo5a
Cacng8	Hn1	Gprc5b
Uqcr10	Spock3	Arc
Atp2b2	Fcgrt	Lta4h
Csmd1	Lama5	Zdhhc5
Gsta4	Arhgef17	Rab11b
Sgsm1	Lamc1	Psmc2
Ass1	C1qtnf5	C1qbp
Rtn1	Psmb10	Cpd
Dgke	Galnt7	Eef2
Gja1	Smarca1	Kcnip4
Lrrc7	Plcd4	H2aj
Eef1a2	Athl1	Ubqln1
Itgam	Syk	Agpat3
Ccdc51	Lacc1;9030625A04Rik	Gmfb
Rgs6	Traf7	Iqsec1
Gria2	Pon3	Eef1d
Gabra2	Fdft1	Atp6ap2
Prmt8	Themis2	Nude
Apba1	Psmb8	Ipo5
Prkcg	41886	Usp46
Dnm3	Mpg	Lrba
Tpm2	Htatip2	Ndufaf2
Cnksr2	Mllt4	Ppp2ca
Rab39b	Itga1	Ocll
Amph	Rcn3	Pi4ka
Nlgn4l	Sltm	Srp54
Nck2	Prkcdpb	Eif2s3x
Elfn2	E1l2	Rock2
Elmod1	Mrps14	Fech
Slc6a17	Cnn1	Crybb1
Il1rap1l	Fam20c	Ckb

Trpv2	Sdsl	Atp5pd
Fbxo41	Fgd2	Snx7
Slc44a1	S100a16	Tpm3
Maob	Hfe	Rabggta
Plxnc1	Pard3b	Emd
Tnr	Frmpd4	Eif2s1
Pex5l	Dhx58	Ndufb3
Negr1	Gm98;MRF	Dab2ip
Arhgap39	Zbtb7a	Plcl1
Fibp	Wdr66	Wasl
Stmn2	MacroD2	Akt3
Ca2	Cnn3	Tomm40
Tiam2	Ptbp3;Rod1	Cct6a
Atp1a3	Arhgdib	Apool
Rap1gap2	Msr1	Cpne7
Pde2a	Tmem179	Pebp1
Gpm6b	Palm2;Akap2	Uba5
Nefm	Tle1	Ube2m
Fsd1	Apbb1ip	Eef1a1
Epha4	Tnfaip8	Ctnna2
Nlgn2	Osbpl7	Tbc1d17
Smpd13b	Phf11l;D14Ert668e	Hba
Cadps2	Clec12a	Arl6ip1
Kif5a	Adcy1	Cops4
Vsnl1	Bhlhe22	Dsg1a
Dbn1	Rhof	Hnrnp1
Gap43	Phlpp2	Dst
Rapgef4	Was	Apeh
Cryab	Epha5	Bcat1
Sema7a	Lppr4	Tecpr1
Padi2	Hira	Mboat7
Brsk1	Tmem179b	Ndel1
Sgtb	Epb4.9;Epb49	Scamp1
Map2k6	Mapk8ip1	Ppm1h
Tppp3	Sp1	Ran
Grm3	Ift27	Psmc4
Slc12a2	Parp4	Cadm1
Sfxn5	Pyhin1	Vapb
Kalrn	Trip10	Trnt1
Madd	Arhgap28	Grm7
Cldn11	Ltbp1	Asl
Cacna2d2	Fat3	Rundc3a
Hspa12a	Tgfb1	Acbd6

Cd200	Hbb-b1;Beta-s	Tars2
Camkv	Tap1	Coro2b
Ngef	Col8a1	Aldh18a1
Prkar2b	Amt	Grik3
Atp2a3	Gmip	Ddx3x
Pde10a	C1qb	Slc3a2
Rab3c	Chga	H2bc1
Fbxo2	Loh12cr1	Crtac1
Camk2b	Fut9	Uqcrb
Inpp4a	Pacsin3	Ppm1a
Islr2	Ube2d1	Hprt1
Ina	Ftsj1	Gcdh
Synpo	Hba-a2;Hba-a1;Hba	Ddah2
Grm2	Lipa	Calr
Srcin1	Noa1	Mark2
Arl1	S100a6	Wasf3
Sipa111	Cald1	Mlycd
Scn3b	Srxn1	Flii
Ncs1	H6pd	Snap29
Aqp4	Pgm5	Pls3
Cnr1	Sh3bp1	Csnk2b
Bsn	Cybrd1	Atic
Actn2	Tmem50a	Lrfn4
Oplah	C4b	Cdk16
Plcb1	Csad	Ppid
Diras2	Mocs2	Abhd3
Col1a2	Nol4	Slc12a5
Prkar1b	Atp13a2	Begain
Acot11	Kcnq2	Suclg1
Rps6ka2	Cd109	Ykt6
Neto2	Lrrc25	Dlgap4
Hpcal4	Tmem123	Map2
Snca	Slc38a2	Xkr4
Nrbp2	Igsf11	Scn1a
Glrx5	Pcdh9	Acot10
Sv2a	Amz2	H2bc14
Pten	Gtf2h2	Vps18
Pgls	Rpusd2	Sh3glb1
Exog	Mrfap1	Vps11
Cntnap2	Ptgs1	Actc1
Bdh1	Mgat1	Vcp
Ccdc136	Odz2	Mthfd11
Arhgef6	Rabif	Idh2

Fxyd6	P2rx4	Anxa7
Ptprn2	Lyz1	Katnal1
Cacna1a	Illrap	Selenoi
Lamp2	Igf2bp1	Purb
L1cam	Mapk14	Vps13c
Sorbs2	Nell2	Htt
Dlg4	Ptpn13	Got1
Stx1b	Plekho2	Rpn1
Gnaz	Cln3	Tbcel
Cnp	Arg2	Atp2a1
Plxnd1	Plek	Fasn
Atp2b4	Cacna1c	Gprin3
Gstm1	Ctbs	Gak
Nefl	Gsdmdc1	Psmc6
Phyhip	Podxl2	Wfs1
Gdap1	Ifit1	Dhodh
Src	Hspb8	Pgm2
Tmem163	Pstpip1	Ndufs7
Cadm3	Acox3	Coq6
Prdx6	Gmfg	Sorcs2
Gabbr3	Afap1	Acadsb
Mras	Rbp1	Hacd3
Sgip1	Mapksp1;Lamtor3	Gk2
Necab1	Ifitm3	Grm8
Cpt1c	Fbxo21	Ndufa9
Sirt5	Ccdc102a	Pgs1
Kcnab2	Tbxas1	Ppp1cb
Tsc2	Bckdhb	Stam
Plch2	Sema4g	Pag1
Nfasc	Cxcl14	Uchl3
Mbp	Nagpa	Osbp11a
Ckmt1	Arap2	Mrps27
Rin1	Hk3	Cacng2
Stx1a	Iqce	Lpcat4
Tppp	Mrc1	Slc7a5
Pcsk2	Cd180	Sort1
Cxadr	Spock1	Aprt
Rgs7	Cd72	Sh2d5
Cntfr	Pbxip1	Eif3j1
Plcx3	Lrfr1	Cyc1
Dnm11	Rnf157	Septin8
Cpne4	Cxx1b	Adrbk2
Gltf	Alyref2;Refbp2	Scarb2

Prkce	Lcorl	Mtmr9
Ical	Pla2g6	Shmt2
Lpgat1	Csf1r	Mfsd4a
Nlgn1	C530008M17Rik;Kiaa1211	Dync1li2
Slc25a44	Fam49a	Syt17
Gnai1	Dhrs3	Pip5k1a
Cask	Hck	Prkab2
Daam2	Hspb1	Lrpprc
Syn3	Tgm2	Cpt1a
Fam131b	Mast1	Atp5f1b
Cacna1e	Calml4	Nudt5
Add2	Lrmp	Elmo1
Pclo	Anpep	Arl6ip5
Sdhc	Tor4a	H2ax
Acsf2	Cspg4	Gga3
Rhoc	Ephb2	Pld3
Gls	Bai3	Plppr4
Rph3a	Aass	Snta1
Cpne6	AW551984	Iqsec2
Syngap1	Sema3c	Atp5f1c
Ch11	Erbp4	Gdi1
Brsk2	Evi2b	Tsr2
Hspa2	Clk4	Atp2a2
Sncb	Oas1a	Lrrc15
Prune2	Sybu	Ptpn23
Grm5	Syt6	Mmut
Pacsin1	Mea1	Srprb
Trio	Itgal	Dctn2
Mog	Kiaa1045;N28178	Atp1a2
Kcnd2	Rel	Acad9
Plxna4	Mt3	Mapre3
Arhgap26	H2-K1	Hist2h2aa1; Hist2h2aa2
Adcy5	Arhgap30	Ptpn11
Wasf1	Thsd7a	Ahcy
Gad2	Trim5	Ndufs2
Dync1i1	Sp110	Fahd2
Slc8a1	Creg1	Dsp
Gdap111	C5ar1	Mtap
Epb4111	Xdh	Eloc
Ppp3cb	Vav1	Fcsk
Clvs1	Hmox1	Adgrl2
Syng3	Mrps16	Gna11
Camkk1	Dock2	Krt75



Syt1	Pcp41l	Hist2h2bb
Sirt2	Dnajc1	Cnrip1
Ppp1r1b	Dos	Cacybp
Agap2	Ablim1	Sirpa
Itpr3	Myl6b	H3-5
Enpp6	Gusb	Ndufb11
Slc4a4	Ifi47	Gsk3a
Mob4	Lman2l	Gabra5
Ncam1	Dera	Sgta
Ctnbp2	Satb2	Rab8b
Trim2	Pld4	Uggt1
Mblac2	Alox12l;Alox15	Ppp3ca
Gda	Gpr84	Gpx4
Dmxl2	Gadd45gip1	Rptor
Clu	Acad10	Pof1b
Ttc9	Reep1	Snap47
Myh14	AI607873	Atp6v1g2
Kif5c	Mettl7a1;AB099516;Mettl7a2;Ubie;Me ttl7a2-Higd1c	Syne1
Tpm1	Arhgap33	Usp9x
Dlgap1	Lyn	Timm9
Shank1	Osbpl6	Ubr4
Gabbr1	Mmp12	Cox15
Ly6h	Pawr	Coro1b
Hapln1	Irg1	Uba1
Gfap	Phyhd1	Atp6ap1
Snap25	Lcp2	Calcoco1
Hsd17b1 1	Fam151b	Aldoc
Acot2	Cygb	Psm8
Ddc	Btk	Maip1
Nrxn1	Timm8a1	Lingo2
Dlg3	Stard10	Ankrd63
Itpr2	Slc37a2	Dgkb
Plxna3	Fam169a	Ubxn6
Atcay	Ptpn18	Katnb1
Gnao1	Ifi204	Cdh2
Slc2a1	Slfn1	Vdac2
Stxbp1	Wdfy4	Smap1
Zc2hc1a	Pycard	Anxa2
Sorbs1	Rbm47	Vps33a
Gria3	Wdr24	Map6
F3	Parvb	Pde4d
Erc2	Rin3	Pptc7

Clybl	Alox5	Cc2d1a
Fmnl3	2310035C23Rik	Aak1
Slc25a22	D430041D05Rik	Slc25a25
Ptprd	Pcp4;Igsf5	Dhrs7
Psd3	Pvrl3	Chmp4b
Slc16a1	Tcirg1	Vac14
Dnajc6	Hnrpd1	Rars2
Fsd11	Asap2	Gmppb
Syp	Tbr1	Copg2
Pdxp	Cd59a	Eif6
Lmtk3	Pdlim4	Vamp1
Camsap3	Slc6a15	Galk1
Ntm	Bgn	Ehd3
Actr3b	Il16	Aplp2
Snph	Phkg2	Rabgap1
	Ifih1	Nsdhl
	Rims2	Mthfd1
	Lyz2	Slc10a4
	Efha2	Ddt
	Pitpnm2	Cacnb4
	Zfp644	Prrt3
	Siglec1	Krt77
	Arpp21	Bphl
	Dhx57	Psmd5
	Naip2	Relch
	Cd84	Dpp3
	Med10	Pak3
	Hecw1	Krt1
	Ccdc39	Rab22a
	Slc2a6	Rtn3
	Mcam	Ggt7
	Kirrel	Pgam5
	Samd9l	Camk2d
	Mns1	Icam5
	Rab11fip1	Abi1
	Nmnat1	Pygb
	Tyrobp	Cpne2
	Kiaa1841	Chrm4
	Rnf213	Hspa12b
	Sugp2	Tenm2
	Casp8	Nfs1
	Gucy1a2	Pdlim5
	Actl6b	Dnaja3

Tmeff1	Ndufa2
Kif21b	Pycr3
Qki;Qk	Mri1
Lrp2	Snx30
Samsn1	Ankrd34b
Slfn5	Tuba3a; Tuba3b
Tapbp	Shisa4
Ighmbp2	Cdh10
Cd48	Aldh112
Spa17	Csde1
Col11a1	Arhgap21
Alb	Acsf3
Scg5	Acacb
Jam2	Pak1
Gm4902	Acad8
Sdc4	Pdk2
Tlr13	Naca
Rsph4a	Pgrmc2
Epha7	Poldip2
Tmem151b	Tln1
Nid1	Epdr1
Gulp1	Ubqln2
Ankrd40	Asrgl1
Plod2	Tsg101
Plcg2	Cct7
Anks1	Slc7a10
Map9	Copb1
Ccdc120	Fyn
Glce	Cmtm4
Ctsh	Kirrel3
Gbp4	Ca4
Psd	Slc9a7
Hspg2	Cops5
Hook1	Dmwd
Map3k5	Vat1
Pltp	Aifm1
Fam38a;Piezo1	Acta2
Rnasel	Tmem121b
Slc16a3	Apoo
Rasgrf2	Numb
Celf5	P2ry12
Sash3	Necap1
Tmem35	Lman2

Dvl1	Adora2a
Mcl1	Ncstn
Rsph1	Dtymk
Wdr19	Rmnd5a
Irgm2	Grm1
Apc2	Pik3r1
Mndal	Pccb
Ksr2	Fabp5
Plin2	Pfklp
Tceal5	Dtd1
Cd63	Clptm1
Ldlr	Nisch
Myo9b	Mpp6
Robo1	Rcan1
Zfyve9	Pmpca
Fbl11	Nt5c
Rilpl2	Eci1
Flnb	Galc
Hpgds	Asah1
Kif6	Vps50
Plaur	Stx6
Atp5s	Afdn
Ncf2	Eif31
Plxdc1	Calm2
Emr1	Me3
Rttm	Snx4
Lilrb4;Gp49a	Pcyt2
Pde7a	Ajm1
Man2a1	Slc2a13
Pcdhga8	Palm2
Dok1	Ampd3
Xpr1	Unc13b
Plau	Actbl2
Mgat5b	Rab30
Fbxo11	Nck1
Fat4	Plxnb1
Psip1	Txn11
F13a1	Nipsnap3b
Skap2	Arfgap1
Snx33	Snx27
Sulf2	Atp5md
Rab3il1	Map2k1
Gna14	Tubg2

Bcl11b	Gsdma3
Znf512b	Pacs2
Pcyt1b	Ncan
Ripk1	Arpc3
Itga4	Lrrtm2
Chst10	Cntn4
Sts	Kctd12
Kiaa1239	Atp6v1f
Odz1	Gabrb1
C1qc	Surf1
Uaca	Slc25a5
P2rx7	Micu3
Slc9a9	Actn1
Dok2	Kbtbd11
S100a10	Wdr7
Itih5	Sdr9c7
Itgb4	Clcn4
Ptbp2	Adprs
Trim25	Rhoa
Marco	Rtcb
Cybb	Appl2
Prr3	Hace1
Rasa4	Mink1
Ifit3	Serpina1a
Scd2;Scd3	Acaa1b
BC006779	Ndrp2
Met	Dnajb1
Xiap	Cand1
H2-D1	Hspa5
Fars2	Atg5
Spin1	Abat
Ccrn4l	Skt
Pdlim1	Dlgap2
Gvin1	Strn3
Arhgef4	Rpl13
Cplx1	Tuba1a
Epha3	Slc25a10
Thg11	Mlst8
Serpina10	Gps1
Hvcn1	Psmc3
Ly9	Gng3
Ncf4	Ogt
Dock8	Rabggb

Minpp1	Prrt2
Notch2	Slc12a6
Pde4b	Pdk3
Slc26a11	G6pdx
Osbpl5	Cct3
Bin2	GOLGA7B
Synpo2	Cndp2
Spp1	Isoc1
Ndnf	Adh5
Unc93b1	Elob
Inpp5d	C1ql3
Plxnb3	Cryz
Mt2	Bcap29
Kiaa0284	Agpat4
Pdzrn3	Rmnd1
Arhgap4	Rars1
Lamb2	Nptx1
Alkbh8	Rad23b
Elavl4	Rab18
Fbn2	Psmb7
Fam129a	Ppa2
Hnrnpd	Txnrd1
Il1rn	Nccrp1
Dnase2a;Dnase2	Atp5pb
Leprel1	Hsd12
Ak7	Pigs
Slc7a7	Cacng3
Fabp4	Mff
Colec12	Hsp90ab1
Tmem175	Tomm20
2410002F23Rik	Pdha1
Aim2	Mtor
Raph1	Bcap31
Irs2	Arfip2
Saa3	Tcp1
Tlr7	Glul
Mtmr7	Tollip
Ano10	Gnal
Cav1	Rab3b
Msl1	Lrrc4b
Osbp2	Mtstp6
Rcsd1	Vcpip1
Afp	Slc9a1

Ctsc	Emc1
Cd36	Arhgap23
Mtif3	Atp6v1e2
Gpnmb	Arl8a
Fam108c1	Tiprl
Rem2	L2hgdh
Ano8	Epb4113
Cd99l2	Chat
Capn7	Stat1
Ldhd	Vps26b
Fam134a	Psma3
Pram1	Mydgf
Irf8	Znrd2
Mpeg1	Vps29
Sparc	Krt5
Stxbp2	Dagla
Ptprc	Vps4a
Cyth2	Prps1
Elp2	Ppp2r1a
Tax1bp3	Nedd4
Slc17a5	Mrps23
Tagln	Rps5
Dgkh	Gspt2
Psd2	Clip1
Fam107a	Nudt10
Stap1	Ndufa6
Fstl1	Diras1
Palm3	Sik3
Dctpp1	Cbr3
Tgtp	Cyria
Meig1	Rdx
Clea1;Clea2	Acot9
Cnn2	Syng1
Lphn1	Bcl2l13
Ccdc40	Sncg
Alox5ap	Rab27b
Ctnnal1	Vamp7
Flnc	Blmh
Stom	Slc24a4
Lppr3	Pgm3
Cln5	Pdcd10
Klhdc10	Syt3
Slc16a7	Gpr158

Arl4c	Carm1
Mfi2	Gsr
Snx32	Hsd17b10
Hyal2	Trappc4
Purg	Kif21a
Slc11a1	Cdipt
Mrip	Wipf3
Mef2a	Fkbp8
Cobll1	Adgrb1
Cesmst1	Acs13
Galk2	Rnf214
Dhdh	Gas7
Plekha7	Cntn1
Brf1	Itgb8
Dusp15	Abhd17a
Gan	Ndufc2
Celf4	Cct6b
Pik3ap1	Ak1
Ica11	Xpo7
Prex2	Git2
Till1	Ndufb10
Stab1	Slc25a42
Sin3b	Shank3
Arhgef10	Nefh
Xpa	Mat2b
Rab32	Aldh1b1
Pak7	Tjp1
Galns	Gstp2
Pdgfra	Cdc37
Kcnj3	Rgs9
Fmn2	Cct8
Dynlt3	Mical3
Fcho1	Mrs2
Sqrdl	Ndufb4
Map11c3b;Gm6055	Hsd17b13
Lbp	Pdhx
Man2b2	Mapk8
Fcgr2b	Aldh1a1
Dtx3l	Rpn2
Efemp2	Nt5e
Aif11	Gapdh
Bbs4	Eif5a
Parp14	Aldh1a7



Sema6a	Tgm3
Khdrbs2	Ech1
Ugt8	Nme2
Slit1	Cplx2
Magi3	Fam136a
Prkcq	Stk32c
Chd5	Gfra2
Cp	Traf3
Rbks	Cyld
Gtdc1	Abcb8
Lgals9	Akr1b7
Zfp238	Lrp1b
Slc43a2	Slc1a2
Cd14	Hcn2
Ptrf	Cox5a
Wnk3	Armc8
Kcnt2;Kent1	Gucy1a1
Sez6	Gdpd1
Gprasp2	Tmem143
Pml	RTRAF
Bcl11a	Rps2
Ranbp6	Synj2bp
Meis2;Meis1	Rogdi
Cd40	Septin11
Clmp	Glrx3
Larp6	Psemb6
Faap100	Hagh
Ralgps1	Sucla2
Adam8	Cyp46a1
Slc33a1	Mdh1
Yap1	Mapre2
Vrk2	Mapre1
Wipf1	Ttyh3
Gm1568	Gsdma2
Nsg2	Tenm1
Fermt3	Cpt2
Spnb4	Rimbp2
Abi3	Map4
B3gat3	Vps35
Clec7a	H2bc11; H2bc13; H2bc15; H2bc7
Synm	Shisa7
Gemin6	Hars1
Txndc17	Sfxn1

Clec4n;Clec6a	Commd3
Rnf219	Cox6c
Ston1	Cfl2
Dnal1;Dnalc1	Bin1
Aim1	Rap2b
Mcf21	Sh3glb2
Shroom3	Srgap2
Ablim3	Fbxl16
Colla1	Wars1
Glipr2	Kif2a
Ncf1	H2bc12
Folh1	Pip5k1c
Ttbk1	Arrb1
Wipf2	Arhgdia
Pald	Suclg2
Trex1	Slc6a11
Chgb	Ociad1
Trip6	Septin5
Med24	Myo6
Wsb2	Epn2
Ifi202	Ppp2r2c
Ccna2	Timm23
Nadk	Cpe
Cep128;4930534B04Rik	Arl15
Rgma	Pdyn
Rbfox2;Rbfox1	Hecw2
Kank1	Afg3l2
Scn2a1	Napg
Gucy1a3	Aifm3
Unc119	Gapdhs
Epha2	Ubtd1
Garnl3	Spr
Aldh1a2	Ppox
Pvalb	Actr1a
Trim62	Paics
Ptpn7	Irgm1
Cyba	Rab11a
Kndc1	Gnas
Igfbp1	Jup
Zc3hav1	Erlin2
Grb10	Myh9
Wipi2	Lysmd2
Lgals3bp	Dap3

Pdlim7	Akr1e2
Trp53i11	Gpsm2
Psmb9	Prdx3
Ncor1	Tmem256
Ifit2	Lanc11
Scube1	Gde1
Tpcn2	Fermt2
Zdhhc6	Slc30a9
Pipox	Ap2a1
Rac2	Ppp2r5c
Adamts5	Adss2
Ccdc88b	Ntng2
Ccdc92	Smyd5
Klhdc2	Ppp6c
Grn	Adprh
Ap1s2	Mfsd6
Pars2	Prkar2a
Dtx3	Slc6a6
Hp	Ndufaf3
Fbln2	Coa3
Gpsm3	My112b
Clstn3	Hnrnpa2b1
Nbeal2	Rab33b
Irak4	Gabra3
H2-Ke2;Pfdn6	Acp6
Mgst1	Rack1
Sp100	Cops3
Aes	Zzef1
Igfbp2	Lap3
Adipoq	Acyp1
Milr1	Capn1
Igsf3	Psm14
Echdc3	D1Pas1
Scg2	Chordc1
Tgfbr2	Stoml2
Naga	Rps6ka1
Cd86	Krt13
Steap4	Tomm401
Slc25a18	Cpne8
Snx11	Hpcal1
Cpq	Ap1m2
Ttc3	Arf5
Gprin2	Ndufb7

Cd68  
Serpib2  
Zfp334  
Trim46  
Sppl2a  
Stfa3  
2700081O15Rik  
Nckap11  
Ube2e3;Ube2e2  
Lpcat2  
Aagab  
Grip2  
Mphosph6  
Def6  
Folr1  
Plekhg1  
Enc1  
Enpp2  
Lilrb3  
Rltpr  
Cav2  
Morn4  
Bcor  
Tlr8  
Ecel1

Nckap1  
C2cd5  
Acat1  
Grb2  
Coa7  
Tpi1  
Hnrnp2  
Mpc2  
Krt80  
Smcr8  
Dsg1b  
Tsn  
Ap2s1  
Iglon5  
Kpnb1  
Btbd17  
Ahsa1  
Oga  
Lrrtm1  
Pip4p2  
Ntrk3  
Atp6v1h  
Rhot2  
Slc2a3  
Krt12  
Fth1  
Pkm  
Mapk1  
Cmpk1  
Cops8  
Krt6a  
Hist1h2af  
Arhgef12  
Aldh3a2  
Rgs20  
Pdia4  
Stxbp3  
Ttc1  
Nfu1  
Hspa9  
Fbxo3  
Tpd52  
Gmppa

Clic4  
Prep  
Atg2b  
Psmc6  
Ccde177  
Rab24  
Rnf141  
Ipo4  
Abr  
Cdk14  
Slc25a20  
Dnaja2  
Cnm1  
Psmc7  
Ppp6r1  
Atp6v1g1  
Sod1  
Pitrm1  
Dbnl  
Ppp1ca  
Tmem9b  
Msn  
Adam11  
Dnajb4  
Nipsnap2  
Mtco1  
Rab5a  
Gabrg2  
Picalm  
Pura  
Irgq  
Fam177a1  
Osbp12  
Dpysl4  
Vdac1  
Gpd2  
Psmc5  
Exoc5  
Dctn1  
Flna  
Mfn2  
Ptges3  
Tenm3

Mccc2  
Tmx1  
Alg2  
Pgam1  
Hspd1  
Chmp1a  
Gmps  
Ctnnd2  
Sorcs3  
Smap  
Soga3  
Wbp2  
Msra  
Isyna1  
Sri  
Ddx1  
Stim1  
Flrt3  
Tpbg  
Grik5  
Uchl5  
Pitpna  
Mlc1  
Itpka  
Fgf12  
Ak5  
Echdc1  
Setd7  
Babam1  
Akap12  
Glod4  
Rps6ka3  
Kif1b  
Dync1h1  
Stum  
Timm13  
Mtmr2  
Mtfp1  
Uqcrq  
Sec23a  
Rap2a  
Vps25  
Ezr

Plaa  
Dync1li1  
Nap111  
Lin7a  
Abhd10  
Taok1  
Tm9sf3  
Rps13  
Prnp  
Ctsd  
Tesc  
Grpel1  
Wdr48  
Cox6b1  
Actg2  
Usp7  
Eea1  
Camkk2  
Acat2  
Brinp1  
Tkt  
Uso1  
Trim32  
Gdi2  
Pdpk1  
Mrpl12  
Atp5f1d  
Scfd1  
Cd47  
Ndufs1  
Cul2  
Crat  
Vps13a  
Timm29  
Akr7a2  
Ckap4  
Clip2  
Slc18a3  
Krt4  
Epb41  
Atp5mg  
Ptpn9  
Acaca

Psm13  
Mtmr1  
Cny  
Coq3  
Sar1a  
Cisd1  
Dctn5  
Vapa  
Agk  
Tubg1  
Pip4k2c  
Exoc8  
Thsn1  
Git1  
Cdc42  
Acl6  
Gst1  
Opa1  
Vps33b  
Sec61a1  
Slc25a3  
Ctbp1  
Prune1  
Erp44  
Hsp90aa1  
App1  
Clcn6  
Cat  
Clcn3  
Arpc2  
Get4  
Cpne3  
Ndr3  
Slc25a4  
Pnp  
Dip2b  
Ptk2  
Psm2  
Lrpap1  
Sh3gl1  
Chkb  
Fabp3  
Marchf5



Olfm2  
Dlg1  
Pgam2  
Cops7a  
Gba  
Cryz11  
Csrp1  
Septin2  
Them4  
Slc6a1  
Kcnt1  
Mat2a  
Retreg2  
Gnb1  
Aldh8a1  
Rala  
Ndufs6  
Lmna  
Clic1  
Impact  
Ptges2  
Pak2  
Myl6  
Copb2  
Tmem30a  
Hint1  
Cltc  
Tpd52l2  
Psat1  
Ywhab  
Ptrh2  
Capn2  
Timm50  
Ide  
Hdhd3  
Lmtk2  
Fkbp1a  
Srm  
Ube2n  
Nsf11c  
Cyfip1  
Mlec  
Slc12a9

Ahcy11  
Thop1  
Cit  
Sec31a  
Anxa3  
Ctnnb1  
Impa1  
Farp1  
Aldh111  
Pitpnc1  
Jam3  
Acvr1b  
Csnk1e  
Plpp3  
Eif4e  
Vkorc111  
Ddx19a  
Adk  
Acta1  
Trap1  
Pcbp1  
Sdhb  
Ncln  
Mtpn  
Sptan1  
Selenbp1  
Aldh5a1  
Sugt1  
Krt10  
Tpt1  
H2bc4; H2bc6; H2bc8  
Plxnb2  
Osbp  
Hint2  
Acadm  
Hint3  
Cyp2s1  
Pabpc1  
Igbp1  
Gnl1  
Nagk  
Vps26a  
Bcas3

Ssr1  
Gpr52  
Dlat  
Micu1  
Pacs1  
Strap  
Rab3gap2  
Inpp5a  
Srpk2  
Dgki  
Mtnd4  
Iqsec3  
H3-3a; H3-3b  
Gba2  
Arcn1  
Psm2  
Arfgef1  
Lancl2  
Ttpal  
Unc13c  
Sh3kbp1  
Mmab  
Aldh7a1  
Slk  
Wdr45  
Lgalsl  
Dnpep  
Nit1  
Bcr  
Dld  
Plscr3  
Mtx1  
Ggct  
Ndr1  
Tab1  
Eps15l1  
Cyb5r1  
Eipr1  
Slc1a6  
Lrrc57  
Krt79  
Prpsap2  
Iqcb1

Atp6v0a1  
Lrp1  
Gabrb2  
Stx16  
Bmerb1  
Serpib6  
Dsg1c  
Tagln2  
Xpo1  
Ist1  
Baiap2  
Coro1a  
Arf1  
Scol  
Rnh1  
Calm13  
Mrps31  
Hadh  
Bmpr2  
Atad3  
Epm2aip1  
Atp5fle  
Atp6v1d  
Pepd  
Pcbp2  
Pafah1b3  
Stx4  
Pdpr  
Septin4  
Ppa1  
Nme1  
Abcg2  
Slc25a11  
Ap2m1  
Pdhb  
Lmbrd2  
Rftn2  
Ndufb8  
Acadv1  
Snx2  
Uqcc1  
Add3  
Caskin1

Wdr54  
Synrg  
Mtf11  
Cf11  
Uqrc2  
Tmem65  
C2cd21  
Tmx4  
Hpca  
Acaa1a  
Uqcrfs1  
Asphd2  
Itp1  
Psmc2  
Atp2b1  
Ppib  
Gabarapl2  
Naxe  
Pitpnm1  
Pik3c3  
Hal  
Dynl1  
Rad23a  
Mdh2  
Adcy9  
Ntng1  
Rtn4  
Cep170  
Fhl1  
Abcb9  
Afg3l1  
Mccc1  
Capza2  
Hars2  
Blvra  
Sacm11  
Gfm1  
Rcn2  
Pls1  
Erp29  
Prdx2  
Lysmd1  
Cops6

Ube2k  
Slc7a2  
Atp9a  
Marcks  
Hsd1l  
Pmpcb  
Rnpep  
Gpr88  
Epn1  
Atp1b3  
Strip2  
Psmc1  
Mapk8ip3  
Tenm4  
Rap1gap  
Sdhc  
Crkl  
Map1b  
H3c1; H3c10; H3c11; H3c8  
Prmt1  
Por  
Kcna2  
Sars1  
Septin6  
Opa3  
Ndufa7  
Lamtor1  
Aspa  
Rasl2-9  
Scp2  
Nol3  
Krt8  
Rpsa  
Mapk3  
Vgf  
Lrtm2  
Pde1b  
Dync1i2  
Rab9a  
Hsp90b1  
Tbc1  
Ap2a2  
Cbr4

Dnajc5  
Cap1  
Hk2  
Stub1  
Ptc3  
Srgap3  
Rab5c  
Gk  
Cspg5  
Ppp3r1  
Rab6a  
Ogdh  
Reps1  
Lgi1  
Igsf8  
Arf4  
Rplp0  
Pcyox1  
Ivd  
Rabgef1  
Gstk1  
Anks1b  
Itgav  
Atp5po  
Tsfm  
Pik3r4  
Agap3  
Dhrs4  
Araf  
Ncdn  
Vim  
Rabep1  
Prodh  
Tamm41  
Pcd6ip  
Aloxe3  
Slc38a3  
Lzts3  
Pck2  
Flot2  
Tuba4a  
Gnai3  
Slc4a3

Emc2  
Psmb1  
Synpr  
Tmx3  
Efr3b  
Rhot1  
Nsf  
Hyou1  
Agap1  
Psmb5  
Cpm  
Daam1  
Dtnb  
Tm9sf2  
Atg16l1  
Wdr77  
Rab10  
Aars1  
Twf2  
Slc25a13  
Prkar1a  
Idh3a  
Dnajb2  
Gch1  
Ryr3  
Arhgef7  
Kiaa1549  
Prxl2b  
Ftl1  
Synj1  
Eif4b  
Aco1  
Fam126b  
Taldo1  
Aco2  
Maoa  
Map1lc3a  
Hspa4  
Asic1  
Slc30a3  
Cct4  
Vps51  
Gstm5



Slc22a23  
Timmde1  
Rab23  
Ado  
Glud1  
Ndufv1  
Abhd12  
Psmc7  
Cs  
Ephx2  
S1pr1  
Ap1g2  
Chrb2  
Slc25a23  
Cad  
Actb  
Rab7a  
Pam  
Eno1  
Prmt1  
Actr2  
Aldoa  
Krt72  
Lin7c  
Ap3b1  
Acot7  
Klc2  
Mtch1  
Pip5k1b  
Phyhl1  
Acy6  
Slc4a8  
Rac1  
Heatr5b  
Tom1  
Mpi  
Actr10  
Adam10  
Wdr1  
Spg7  
Thy1  
Akap7  
Nptxr

Myo18a  
Ndufa13  
Vat11  
Ache  
Npepps  
Entpd2  
Arl2  
Wdr37  
Agpat5  
Tpd5211  
Myadm  
Ndufa4  
Krt26  
Osbp110  
Hibadh  
Psmb4  
Cpne9  
Eef1b  
Aplg1  
Hccs  
Memo1  
Tfrc  
Ank2  
Alcam  
Plcg1  
Anxa4  
Ap3m2  
Snx1  
Ap1m1  
Usp15  
Eci3  
Eml5  
Tars1  
Kiaa0513  
Ragef2  
Ube2v2  
Mpst  
Klc1  
Spcs2  
Gmpr  
Cops2  
Kcnj4  
Sec22b

Arhgap32  
Csnk2a1  
Psm1  
Gatd3a  
Ube2o  
Prkd  
Hip1  
Plcd1  
Pfn1  
Ube3a  
Stip1  
Elmo2  
App  
Ndufa11  
Ldha  
Dennd11  
Atp6v1a  
Celsr2  
Cul1  
Gabbr2  
Psm12  
Ppm1f  
Prkesh  
Hexb  
Tmem126a  
Eif4a1  
Ppp1r9b  
Napa  
Dynlrb1  
H2ac20  
Atp5mf  
Cct5  
Cul3  
Exoc3  
Ywhag  
Ndufb5  
Fah  
Vps52  
Basp1  
Hip1r  
Rufy3  
Cap2  
Hsd17b12

Nif3l1  
Lsamp  
Dad1  
Glg1  
Snx6  
Syt7  
Mtn2  
Gnb4  
Rcn1  
Avl9  
Cltb  
Ppp2r5e  
Elmod2  
Aldh6a1  
Fundc2  
Fkbp4  
Slc25a46  
Oxsr1  
Tbcd  
Vwa8  
Eif5  
Arpc5  
Trappc9  
Endod1  
Rdh14  
Me1  
Pc  
Gaa  
Gsn  
Neo1  
Gng7  
Crk  
Atp6v0d1  
Xpnpep1  
Mt-Cyb  
Nans  
Tdrkh  
Wdr13  
Csnk1a1  
Mapk10  
Becl1  
Ehd1  
Exoc4

Plec  
Hdhd2  
Eif3e  
M6pr  
Ndufs5  
Ugp2  
Dynll2  
Stmn1  
Sigmar1  
Prkaca  
Nudt3  
Tomm70  
Sptb  
Olfm1  
Slc44a2  
Exoc7  
Septin3  
P4hb  
Hspa8  
Plcl2  
Pgrmc1  
Reep5  
Dusp3  
Pfkf  
Gpc4  
Pitpnb  
Ablim2  
Tmem11  
Zfyve1  
Itsn1  
Agpat1  
Kpna3  
Tnpo3  
Pcyox11  
Kifap3  
Fam162a  
Kif1a  
Atg7  
Abl2  
Stk11  
Uchl1  
Adgrb3  
Gripap1

Rgs14  
Ak4  
Exoc6b  
Sdha  
Epb4112  
Slc25a51  
Lgals3  
Psm3  
Eif5a2  
Nap114  
Kcna6  
Cycs  
Nadk2  
Mtco2  
Cyb5b  
Tnik  
Hspe1  
Lasp1  
Itpa  
Actr3  
Nme3  
Acsbg1  
Gucy1b1  
Ciapin1  
Wdfy3  
Cmpk2  
Vti1b  
Htra2  
Czib  
Psm6  
Tfam  
Serpib5  
Nlgn3  
Dpysl3  
Ppp1r7  
Acp1  
Bckdk  
Mtch2  
Dars1  
Mtnd1  
Grk2  
Erc1  
Fh

Ipo7  
Ptk2b  
Rab1b  
Gdpd5  
Evl  
Apoe  
Decr1  
Pdxk  
Cdc42bpa  
Eps15  
Pgap1  
Strn  
Agfg1  
Ppp6r2  
Pgp  
Dhd2  
Fmnl2  
Hspa1a  
Acsl5  
Lrrc8b  
Nipsnap1  
Myh10  
Tubb2a  
Dbt  
Armc10  
Vps16  
Ptpre  
NARS1  
Acly  
Ckap5  
Ptrj  
Ppt1  
Krt17  
Rab35  
Arhgap44  
Cdk17  
Sfxn3  
Samm50  
Hgs  
Map2k4  
Lnpk  
Atpaf1  
Upf1

H2ac12  
Bles03  
Naxd  
Lrrc4c  
Apmmap  
Gng2  
Hadhb  
Ranbp9  
Creld1  
Pafah1b2  
Man2c1  
Atp5me  
Ndufb9  
Gabrd  
Etfdh  
Gnpda1  
Ospl8  
Acox1  
Slc7a8  
Gnb2  
Grik2  
Ap3s2  
Zadh2  
Bpnt1  
Capza1  
Csmc3  
Nectin1  
Map1s  
Rragd  
Ptpa  
Alad  
Ppp2r2a  
Rnf14  
Slc23a2  
Atp1b2  
Hmgcl  
S100a11  
Anxa6  
Scrn1  
Srr  
Pcmt1  
Ric8a  
Cpne1



Rps3  
Sdk2  
Kif5b  
Reps2  
Etf1  
S100a14  
Sfn  
Eif3i  
G6pd2  
Atp6v1c1  
Pip4k2a  
Nudt16  
Vps36  
Tspan7  
Tmx2  
Prdx1  
Tcp1111  
Sparc1  
Rab11fip2  
Ppp2r1b  
Rab5b  
Trappc11  
Dnm1  
Ptprr  
Hsph1  
Rock1  
Cldnd1  
Dhrs1  
Selenbp2  
Slc25a24  
Tagln3  
Lrrtm4  
Abcd3  
Ndufaf1  
Itfg1  
Acadl  
Anxa1  
Ttyh1  
Itgb1  
Kctd8  
Plpbp  
Atg9a  
Pycr2

Arfgef2  
Clta  
Prpsap1  
Myo5b  
Ccde127  
Adck1  
Dnaja4  
Clpp  
Nit2  
Kif17  
Anxa11  
Arf3  
Fscn1  
St13  
Flot1  
Slc25a14  
Cse11  
Fn3k  
Hspa41  
Guk1  
Slc6a3  
Cab39  
Ppp1r12a  
Bnip3  
Gatd1  
Adrm1  
Comtd1  
Ftl2  
Ppp2r5a  
Pdk1  
Gria4  
Vwa5a  
Gpi  
Rras2  
Tmod2  
H3c13; H3c14; H3c15; H3c2; H3c3; H3c4; H3c6;  
H3c7  
Sec14l2  
Pcca  
Atp6v0a2  
Cyrib  
Slc17a7  
Mark3  
Lonp1

Dstn  
Vdac3  
Ppm1b  
Vars1  
Sdr39u1  
Ddx3y  
Susd2  
Ppp1r21  
Ssr4  
Ywhaz  
H2az2  
Cacnb1  
Cdc42ep4  
Dgkz  
Dip2a  
Tmed9  
Ddost  
Atad1  
Ddah1  
Mtx2  
Vamp3  
Hadha  
Emc3  
Grhpr  
Neto1  
Extl2  
Myl9  
Ergic1  
Gclc  
Dgkq  
Dmtn  
Ctnnd1  
Auh  
Gsg1l  
Cntnap4  
Rpl27a  
Mecr  
Ptp4a1  
Tubb5  
Pnpla8  
Ap3d1  
Mal2  
Ralb

Dock4  
Fam114a2  
Ampd2  
Dtna  
Gsk3b  
Rpl15  
Lypla2  
Slc25a12  
Rdh11  
Lamp5  
Vta1  
Th  
Rbbp9  
Gna13  
Nucb1  
Mrpl39  
Twf1  
Igsf21  
Denr  
Hibch  
Nomo1  
Cdip1  
Vbp1  
Ndufs8  
Gstz1  
Snx16  
Dnajb11  
Lin7b  
Skp1  
Pkp1  
Fam210a  
Vcam1  
Prdx5  
Vti1a  
Smap2  
Spryd7  
Trim9  
Add1  
Atg3  
Rab4b  
Babam2  
Hcn1  
Clasp2

Eno2  
Gsdma  
Park7  
Abcb10  
Bcan  
Nipa1  
Efhd2  
Itm2b  
Slc5a7  
Arhgap1  
Dctn4  
Hbb-b2  
Plgrkt  
Prkcb  
Map1a  
Pgd  
Cul5  
Hebp1  
Slc4a10  
Ndufa8  
Rragc  
Iba57  
Ubt2  
Phf24  
Acs1  
Flad1  
Nwd2  
Slc9a3r1  
Ppp2cb  
Aldh4a1  
Sars2  
Rap1b  
Fbx14  
Akr1b1  
Eif3j2  
Gstm3  
Atp8a1  
Acaa2  
Tsc1  
Phb  
Psm8  
Psm1  
Jagn1

Ppp1cc  
Tbrg4  
Nae1  
Coasy  
Slc18a2  
Ubfd1  
Oat  
Huwe1  
Sbf1  
Pgk1  
Ddb1  
Apbb1  
Akr1a1  
Ccdc6  
Oxr1  
Prkacb  
Pex14  
Ndufs3  
Hspbp1  
Hmox2  
Slc7a14  
Gpx1  
Ola1  
Gpd1l  
Ap2b1  
Etfb  
Ddi2  
Eif4h  
H2bc9  
Ufc1  
Stx12  
Ndufb6  
Lhfp14  
Prx12a  
Eif4a2  
Oscp1  
Faah  
Rhog  
Prkca  
Exoc2  
Mgl1  
Canx  
Efr3a

Pdcd6  
Gfod1  
Coq5  
Slc35f1  
Lrrc47  
Ndufa10  
Abraxas2  
Timm44  
Rmdn3  
Got2  
Chp1  
Vps45  
Kcnip2  
Esd  
Pdp1  
Acap2  
Emb  
Eppk1  
Rab14  
Abhd16a  
Bckdha  
Rgs8  
Krt42  
Eprs1  
Unc5a  
Idh1  
Dlst  
Uqcr1  
Me2  
Mtatp8  
Gart  
Scn1b  
Snx5  
Ncam2  
Ehd4  
Itm2c  
Cox5b  
Gabra4  
Ptpn  
Cadm2  
Rpl3  
Cntnap1  
Kcnab1

Gmcs  
Dglucy  
Rps9  
Insrr  
Arpc4  
Pfn2  
Sh3gl3  
Scn2a  
Pgm1  
Csnk2a2  
Fis1  
Prss2  
Arf6  
Fnbp1  
Cpne5  
Vipas39  
Sptbn1  
Bsg  
Psmb3  
Nptn  
Efhd1  
Ernm  
Eml2  
Slc1a4  
Ptpf  
Camk2g  
Armc1  
Mif  
Phgdh  
Mrtfb  
Fry  
Pdia6  
Nqo2  
Glx  
Stk39  
Ank3  
Armc6  
Magi2  
Prpf2  
Ralgapa1  
Crym  
Slc6a7  
Trappc12



Slc25a1  
Arl3  
Nceh1  
Tmem35a  
Rab2a  
Arhgef9  
Ndufa3  
Bcs1l  
Chchd3  
Zmpste24  
H2aw  
Nampt  
Ptpa  
Inpp1  
Gpc1  
Ccz1  
Ap3m1  
Aldh9a1  
Faim2  
Ptp4a2  
Atp5f1a  
Stx3  
Cep170b  
Atp6v1b2  
Ndufa12  
H2ac7  
Eci2  
Scyl2  
Stx7  
Ctnn  
Spart  
Serinc1  
Lxn  
Oxct1  
Anxa5  
Pygm  
Mtarc2  
Krt14  
Ube2v1  
Phb2  
Gapvd1  
Rab1A  
Usp24

Adsl  
Wdr44  
Ndufv2  
Ap3b2  
Taok3  
Psm5  
Rab31  
Psm4  
Ipo9  
Rasa1  
Iars2  
Bsd1  
Ndufa5  
Enoph1  
Ranbp1  
Cntn2  
Dpysl2  
Letm1  
Mocs3  
Echs1  
Tpp2  
Slc27a4  
Ppp6r3  
Fnbp1  
Coro1c  
Pkp4  
Gstp1  
Ggps1  
Cdc42bpb  
Septin7  
Sccpdh  
Pef1  
Cyb5a  
Frrs1  
Lrrc8a  
Gars1  
Get3  
Ppme1  
Kcna1  
Bag6  
Tubgcp2  
F8a1  
Rab8a

Shisa9

Them6

Pin1

Dock9

Mcts1

Hspa1b

Brcc3

Dnajb6

Nt5c3a

Tubb2b

Hk1

Krt76

Lrrtm3

Kazn

Psmc9

Scamp3

Numbl

Gspt1

Gnai2

Nf1

Uba1y

Adgrl1

Wwox

Ruvbl1

H4c1; H4c11; H4c12; H4c14; H4c2; H4c3; H4c4;  
H4c6; H4c8; H4c9; H4f16; Hist1h4m

Usp14

Prmt5

Rab21

Cdh13

Ipcef1

Lactb

Qdpr

Cars1

Vcl

Tufm

Scrn3

Enah

Rida

Homer1

Tmem43

Prkag1

Rpl11

Adgrl3

Ywhaq  
Atf2  
Sphk2  
Pcdhga4  
Pafah1b1  
Bag5  
Coq9  
Ap3s1  
Rpl12  
Syt12  
H2ac15  
Sco2  
Usp5  
Ncald  
Slc25a40  
Lamp1  
Uhrf1bp11  
Aldh2  
Cbr1  
Ywhah  
Nckipsd  
Actr1b  
Psmc1  
Dnaja1  
Ganab  
Slc29a1  
Cotl1  
Hist1h2bp  
Abcb7  
Ctsb  
Fdps  
Tln2  
Plppr3  
Rp2  
Rheb  
Ak3  
Ahcyl2  
Uchl4  
Tph2  
Ckmt2  
Mpp1  
Ap1b1  
Fgf14

**Supplementary Table 5: Proteomics Comparison With KEGG Neurotransmission Pathways**

Synaptic Vesicle Cycling	
Pre-synapse	
KEGG Name	Associated Genes
Transporters	Slc32a1 Slc18a1/2/3/ Slc17a6/7/8
Transporters	Slc1a1/2/3/6/7 Slc6a1/2/3/4/5/7/9/11/12/13
SYT	Syt1
VAMP	Vamp2
Rab3A	Rab3a
RIM	Rims
Munc18	Stxbp1
Munc13	Unc13a/b/c
Syntaxin	Stx1a/b/2/3
SNAP25	Snap25
Complexin	Cplx1/2/3/4
VGCC	Cacna1a/b
NSF	Nsf
alpha-SNAP	Napa
Dyna	Dmn1/2/3
AP2	Ap2a1/2/b1/m1/s1
Clathrin	Clta/b/c/c11
vATPase	Atp6v1a/b1/b2/c2/c1/d/e2/e1/f/g1/g3/g2 Atp6v0e1/2
SYN	Syn1/2/3
Glutamatergic Synapse	
Pre-synapse	
KEGG Name	Gene Name
mGluR2/3	Grm2/3
mGluR4/8	Grm4/8
GLNT	Slc38a1/2
GLS	Gls/2
GRK	Grk2/3
AC	Adcy1/2/3/4/5/6/7/8/9
Gi/o	Gnai1/2/3 Gnao1 Gnb1/2/3/4 Gng2/3/4/5/7/8/10/11/12/13 Gngt1/2
PKA	Prkaca/b/g
VGLUT	Slc17a6/7/8
mGluR7	Grm7
GIRK	Kcnj3
KA	Grik1/2/3/4/5
VGCC	Cacna1a
EAAT	Slc1a2/7
Post-synapse	

KEGG Name	Gene Name
KA	Grik1/2/3/4/5
AMPA	Gria1/2/3/4
EAAT	Slc1a1/6
VGCC	Cacna1c/d
NMDAR	Grin1/2a/2b/2c/2d/3a/3b
PLA2	Pla2g4a/b/c/d/e/f Jmjd7-Pla2g4b
PLD	Pld1/2
ERK1/2	Mapk1/3
PKC	Prkca/b/g
PKA	Prkaca/b/g
IP3R	Itpr1/2/3
PLC	Plcb1/2/3/4
Homer	Homer1/2/3
PP2B	Ppp3ca/cb/cc/r1/r2
Gi/Go	Gnai1/2/3 Gnao1
AC	Adcy1/2/3/4/5/6/7/8/9
Gs	Gnas
Gq	Gnaq
SHANK	Shank1/2/3
GKAP	Dlgap1
PSD95	Dlg4
TRPC1	Trpc1
mGluR1/5	Grm1/5
mGluR2/3	Grm2/3
mGluR4/6	Grm4/6
mGluR7/8	Grm7/8
GABAergic Synapse	
Pre-synapse	
KEGG Name	Gene Name
GLS	Gls/2
SystemA	Slc38a1/2
GAD	Gad1/2
VIAAT	Slc32a1
GABA-T	Abat
AC	Adcy1/2/3/4/5/6/7/8/9
Gi/o	Gnai1/2/3 Gnao1      Gnb1/2/3/4      Gng2/3/4/5/7/8/10/11/12/13      Gngt1/2
PKA	Prkaca/b/g
VGCC	Cacna1a/b
GAT	Slc6a1/11/12/13
GABAB	Gabbr1/2
Post-synapse	
KEGG Name	Gene Name

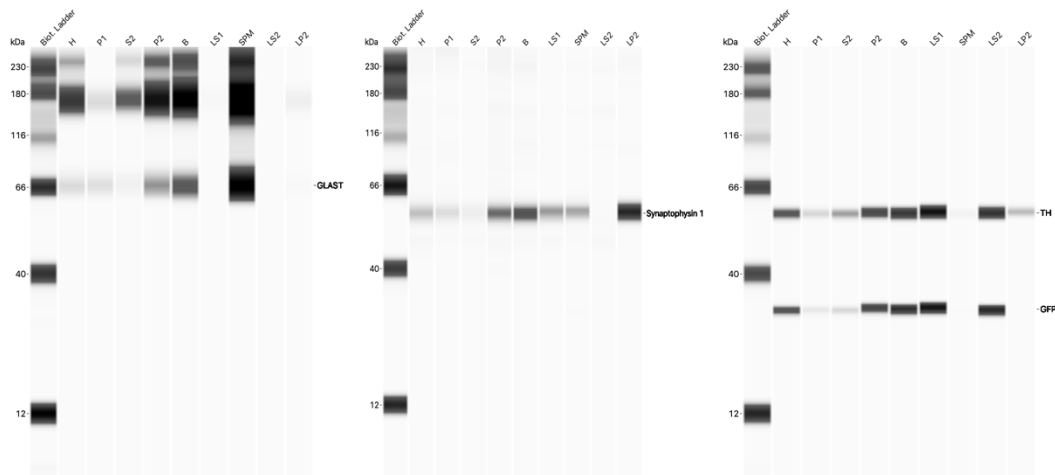
GABAA	Gabra1/2/3/4/5/6 Gabrb1/2/3 Gabrd/e Gabrg1/2/3 Gabrp/q
PKA	Prkaca/b/g
Src	Src
PKC	Prkca/b/g
HAP	Hap1
GRIF	Trak2
PRIP	Plc11
Gephyrin	Gphn
GABARAP	Gabarap/pl1/pl2
NSF	Nsf
KCC2	Slc12a5
GABAC	Gabrr1/2/3
VGCC	Cacna1a/b/c/d/f
GABAB	Gabbr1/2
GIRK2	Kcnj6
Gi/o	Gnai1/2/3 Gnao1 Gnb1/2/3/4 Gng2/3/4/5/7/8/10/11/12/13 Gngt1/2
AC	Adcy1/2/3/4/5/6/7/8/9
Cholinergic Synapse	
Pre-synapse	
KEGG Name	Gene Name
M2	Chrm2
M4	Chrm4
Gi/o	Gnai1/2/3 Gnao1
VGCC	Cacna1a/b
vAChT	Slc18a3
AChE	Ache
ChAT	Chat
CHT	Slc5a7
Post-synapse	
KEGG Name	Gene Name
M5	Chrm5
M3	Chrm3
M1	Chrm1
Gq/11	Gnaq/Gna11
PLC	Plcb1/2/3/4
IP3R	Itpr1/2/3
PKC	Prkca/b/g
Kv7/Kir2	Kcnj2/4/12/14/18 Kcnq1/2/3/4/5
Kir3	Kcnj3/6
PI3K(y)	Pik3r5/6 Pi3keg
Ras	H/K/N/ras
Mek	Map2k1
Erk	Mapk1/3

c-fos	Fos
Gi/o	Gnai1/2/3 Gnao1 Gnb1/2 3/4 Gng2/3/4/5/7/8/10/11/12/13 Gngt1/2
M2	Chrm2
M4	Chrm4
AC	Adcy1/2/3/4/5/6/7/8/9
PKA	Prkaca/b/g
CREB	Atf4/Creb1/3/5 Creb311/2/3/4
nAChR	Chrna3/4/6/7 Chrnb2 4
CaMK	Camk2a/2b/2d/2g/4
Fyn	Fyn
JAK2	Jak2
PI3K	Pi3kca/cb/r1/r2/r3
PKB/Akt	Akt1/2 3
Bcl-2	Bcl2
VGCC	Cacna1c/d/f/s
Dopaminergic Synapse	
Pre-synapse	
KEGG Name	Gene Name
D2	Drd2
TH	Th
DDC	Ddc
VMAT	Slc18a1/2
VGCC	Cacna1a/b
DAT	Slc6a3
MAO	Maoa/b
COMT	Comtd1 Comt Lrtomt
Post-synapse	
KEGG Name	Gene Name
D1	Drd1
D5	Drd5
VSCC	Scn1a
IP3R	Itpr1/2/3
Calcyon	Caly
Gq	Gnaq
PLC	Plcb1/2/3/4
Gs/olf	Gnas/l
AC5	Adcy5
PKA	Prkaca/b/g
CaM	Calm2/3
PKC	Prkca/b/g
CaMKII	Camk2a/2b/2d/2g
PP2B	Ppp3ca/cb
CREB	Creb1/3/5 Atf2/4/6b Creb311/2/3/4

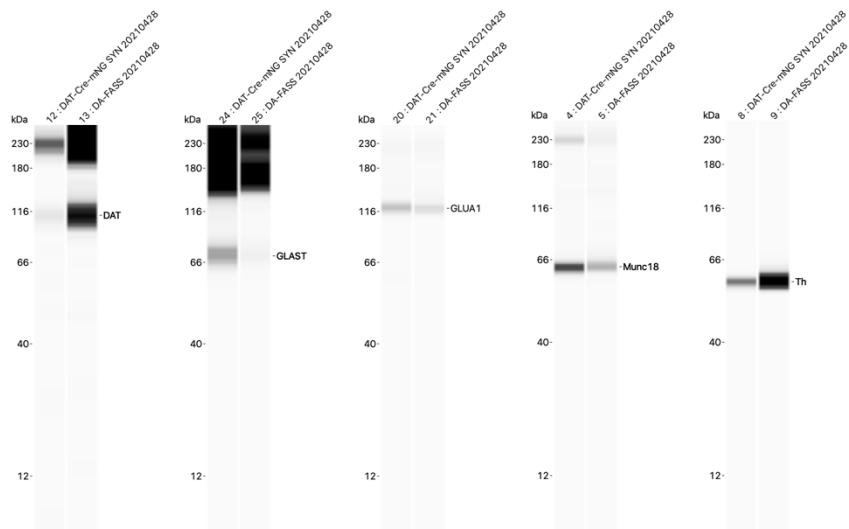


c-fos	Fos
MAPK	Mapk8/9/10 11/12/13/14
DARPP32	Ppp1r1b
PP-1	Ppp1ca/cb/cc
NMDAr	Grin1/2a/2b
AMPAr	Gria1/2/3/4
Kinesin	Kif5a/b/c
Clock	Clock
BMAL1	Arntl
D2	Drd2
PP2A	Ppp2ca/b Ppp2r1a/c Ppp2r2a/b/c/d Ppp2r3a/b/c Ppp2r5a/b/c/d/e
Gi/o	Gnai1/2/3 Gnao1 Gnb1/2/3/4 Gng2/3/4/5/7/8/10/11/12/13 Gngt1/2
Akt	Akt1/2/3
GSK-3	Gsk3a/3b
bArrII	Arrb2
Cav1.2/1.3	Cacna1c/d
GIRK	Kcnj3/5/6/9
Cav2.1/2.2	Cacna1a/b

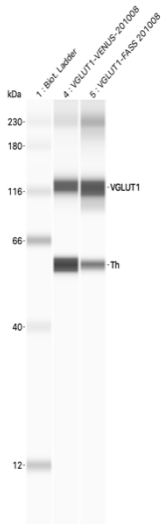
### Supplementary Data: Uncropped images from capillary immunoblot experiments



Pictures from Figure 1c



Pictures from Figure 1g



Picture from Figure 7c