

S5 Table. The differentially expressed genes between PO_alb and PO_con ($p \leq 0.05$).

Gene_id	readcount PO_alb	readcount PO_con	log2FC	pval	padj	gene description
GS_001665	0	7.951319	Inf	0.00023	0.02402	DLGP2_MOUSE Disks large-associated protein 2 Dlgap2
GS_005670	0	9.378123	Inf	4.83E-05	0.0062	EZRI_HUMAN Ezrin EZR
GS_014569	0	9.507661	Inf	4.57E-05	0.00591	HMOX2_RAT Heme oxygenase 2 Hmox2
GS_001664	0	9.712871	Inf	3.47E-05	0.00462	CYTSA_CHICK Cytospin-A SPECC1L
GS_019678	0	11.42221	Inf	6.67E-06	0.00105	NHRF3_RAT Na(+)/H(+) exchange regulatory cofactor NHE-RF3 Pdzk1
GS_010503	0	11.20372	Inf	6.06E-06	0.00098	
GS_003950	0	36.61633	Inf	3.09E-06	0.00054	S13A5_HUMAN Solute carrier family 13 member 5 SLC13A5
GS_019288	0	25.51627	Inf	1.04E-11	4.09E-09	S23A1_MOUSE Solute carrier family 23 member 1 Slc23a1
GS_011397	0	27.60594	Inf	1.39E-12	6.14E-10	MC5R_PANTR Melanocortin receptor 5 MC5R
GS_005903	0	284.3595	Inf	2.06E-18	1.65E-15	GCH1_HUMAN GTP cyclohydrolase 1 GCH1
GS_000806	0	101.0247	Inf	3.59E-21	3.25E-18	
GS_000805	0	55.58731	Inf	5.38E-22	5.60E-19	
GS_000807	0.432359	521.7506	-10.237	1.14E-77	2.37E-73	
GS_011014	0.759496	834.1087	-10.101	1.63E-11	6.28E-09	
GS_013312	1.058333	500.5233	-8.8855	2.01E-13	9.51E-11	DFP_MANSE Putative defense protein Hdd11-like
GS_011013	2.722316	1179.75	-8.7594	4.27E-16	2.69E-13	HEBP2_HUMAN Heme-binding protein 2 HEBP2
GS_020687	0.96726	381.9457	-8.6252	1.95E-16	1.31E-13	TM130_HUMAN Transmembrane protein 130 TMEM130
GS_008748	2.159115	803.6782	-8.54	7.31E-23	8.45E-20	GCH1_HUMAN GTP cyclohydrolase 1 GCH1
GS_005902	3.114906	1056.709	-8.4062	1.71E-17	1.18E-14	GCH1_RAT GTP cyclohydrolase 1 Gch1
Novel00024	15.73442	3120.104	-7.6315	5.00E-12	2.04E-09	
GS_020150	0.640124	122.8345	-7.5841	1.37E-22	1.50E-19	KINH_RAT Kinesin-1 heavy chain Kif5b
Novel00023	1.308547	240.4501	-7.5216	4.63E-50	4.82E-46	
GS_013228	1.072483	187.5607	-7.4503	1.08E-15	6.61E-13	GCH1_HUMAN GTP cyclohydrolase 1 GCH1
GS_007330	0.745346	111.0871	-7.2196	6.15E-33	1.07E-29	NCKX3_HUMAN Sodium/potassium/calcium exchanger 3 SLC24A3
Novel00307	3.126376	373.3751	-6.9	1.71E-13	8.27E-11	
GS_006908	1.920371	219.4224	-6.8362	3.14E-13	1.45E-10	PLPL2_HUMAN Patatin-like phospholipase domain-containing protein 2 PNPLA2
GS_008590	5.388033	562.8665	-6.7069	4.05E-09	1.16E-06	FICA_AGKHB Salmorin subunit A
GS_002043	0.327137	33.44125	-6.6756	5.47E-09	1.54E-06	MITF_MOUSE Microphthalmia-associated transcription factor Mitf
GS_003739	4.588768	456.8645	-6.6375	3.12E-12	1.35E-09	BDH_MOUSE D-beta-hydroxybutyrate dehydrogenase, mitochondrial Bdh1
GS_001154	2.799239	252.6781	-6.4961	1.06E-36	3.14E-33	KINH_HUMAN Kinesin-1 heavy chain KIF5B
GS_002818	0.654274	58.31492	-6.4778	7.91E-09	2.14E-06	S6A11_RAT Sodium- and chloride-dependent GABA transporter 3 Slc6a11
GS_018011	4.565765	402.1071	-6.4606	1.97E-28	2.74E-25	GTR11_HUMAN Solute carrier family 2, facilitated glucose transporter member 11 SLC2A11

GS_007124	3.035303	266.3156	-6.4552	7.74E-22	7.67E-19	SPRE_XENLA	Sepiapterin reductase spr
GS_007057	0.327137	28.5148	-6.4457	3.32E-10	1.11E-07	S41A2_CHICK	Solute carrier family 41 member 2 SLC41A2
GS_020470	9.043201	750.6705	-6.3752	8.34E-18	5.99E-15	TT39B_XENTR	Tetratricopeptide repeat protein 39B ttc39b
GS_005953	0.432359	33.98929	-6.2967	1.02E-13	5.03E-11	PHOS_MOUSE	Phosducin Pdc
Novel00653	0.864718	59.51106	-6.1048	3.38E-14	1.76E-11		
GS_007052	16.76795	988.6148	-5.8816	7.78E-14	3.95E-11	DYR_SHV21	Viral dihydrofolate reductase DHFR
GS_003590	3.976944	210.2207	-5.7241	1.28E-06	0.00025	PMEL_CHICK	Melanocyte protein PMEL PMEL
GS_015726	4.542825	236.5917	-5.7027	3.39E-43	2.35E-39	RFT2_SALSA	Riboflavin transporter 2 r rft2
GS_001157	0.640124	29.92103	-5.5467	2.88E-11	1.05E-08	ABP1_RAT	Amiloride-sensitive amine oxidase [copper-containing] Abp1
GS_005047	4.204218	193.1395	-5.5217	4.05E-15	2.28E-12	PLIN2_BOVIN	Perilipin-2 PLIN2
GS_014478	0.327137	12.77179	-5.2869	9.75E-06	0.00152	TBX19_CANFA	T-box transcription factor TBX19 TBX19
GS_001546	3.976944	137.5623	-5.1123	0.00022	0.02347	OSTCN_SPAAU	Osteocalcin bglap
GS_020975	1.610064	50.89513	-4.9823	1.31E-15	7.81E-13	TYRO_ORYLA	Tyrosinase tyr
GS_009038	9.327824	289.2796	-4.9548	2.79E-40	1.16E-36	TYRP1_HUMAN	5,6-dihydroxyindole-2-carboxylic acid oxidase TYRP1
GS_010733	4.813363	145.2044	-4.9149	1.45E-30	2.15E-27	RDH11_MOUSE	Retinol dehydrogenase 11 Rdh11
GS_007143	7.979508	240.0816	-4.9111	1.38E-37	4.80E-34	ADA2B_DANRE	Alpha-2B adrenergic receptor adra2b
GS_016824	0.312987	9.342832	-4.8997	0.00029	0.02924	KACB_RAT	Ig kappa chain C region, B allele
GS_012029	9.905239	292.5663	-4.8844	3.55E-33	6.72E-30	TYRP1_BOVIN	5,6-dihydroxyindole-2-carboxylic acid oxidase TYRP1
GS_000169	3.766499	106.9919	-4.8281	6.44E-13	2.91E-10	RGS8_DANRE	Regulator of G-protein signaling 8 rgs8
GS_004712	12.51965	345.3098	-4.7856	1.18E-41	6.12E-38	F123A_HUMAN	Protein FAM123A FAM123A
GS_017984	0.312987	8.626111	-4.7845	0.00055	0.04891	LIX1_CHICK	Protein limb expression 1 LIX1
GS_000623	3.083926	78.97306	-4.6785	4.28E-07	9.10E-05	HVCM_HETFR	Ig heavy chain C region, membrane-bound form
GS_012545	5.823886	144.1497	-4.6294	2.74E-26	3.57E-23	K1C18_PROAT	Keratin, type I cytoskeletal 18 krt18
GS_003949	7.12283	163.5666	-4.5213	7.24E-09	2.01E-06	S47A1_DANRE	Multidrug and toxin extrusion protein 1 slc47a1
GS_017127	8.138649	176.0336	-4.4349	2.22E-14	1.19E-11	CCD18_HUMAN	Coiled-coil domain-containing protein 18 CCDC18
GS_014384	4.306761	92.26403	-4.4211	3.81E-16	2.48E-13	RETST_DANRE	Putative all-trans-retinol 13,14-reductase retsat
GS_019504	1.817829	38.3572	-4.3992	3.53E-12	1.50E-09	TRPC2_RAT	Short transient receptor potential channel 2 Trpc2
GS_007375	4.213008	79.84825	-4.2443	8.11E-19	7.04E-16	S22A7_BOVIN	Solute carrier family 22 member 7 SLC22A7
GS_000869	14.69292	277.1858	-4.2377	6.07E-34	1.26E-30	MAR1_HUMAN	Melanoma antigen recognized by T-cells 1 MLANA
GS_011724	17.27374	314.8135	-4.1878	1.19E-34	2.76E-31	KAP1_HUMAN	cAMP-dependent protein kinase type I-beta regulatory subunit PRKAR1B
GS_013459	2.932761	51.79571	-4.1425	2.95E-05	0.00401	SIX3_CHICK	Homeobox protein SIX3 SIX3
GS_014376	1.803679	31.72671	-4.1367	8.52E-08	2.06E-05	S6A13_MOUSE	Sodium- and chloride-dependent GABA transporter 2 Slc6a13
GS_013990	1.058333	17.52303	-4.0494	2.63E-06	0.00047	FSTL5_HUMAN	Follistatin-related protein 5 FSTL5
GS_012501	1.058333	16.47145	-3.9601	5.86E-06	0.00095	BMP1_HUMAN	Bone morphogenetic protein 1 BMP1
GS_017193	1.39962	21.25818	-3.9249	1.69E-06	0.00031	P_PIG	P protein Oca2
GS_000839	30.67226	448.7595	-3.8709	9.72E-35	2.53E-31	VIME_ONCMY	Vimentin vim
GS_008733	5.271341	68.7828	-3.7058	3.55E-15	2.05E-12		

GS_014490	7.166093	91.58415	-3.6758	5.59E-18	4.31E-15	XDH_HUMAN Xanthine dehydrogenase/oxidase XDH
GS_020483	44.4031	537.9631	-3.5988	2.19E-32	3.50E-29	LX15B_RAT Arachidonate 15-lipoxygenase B Alox15b
GS_010033	1.504842	17.47724	-3.5378	1.10E-05	0.00169	ARL4C_MOUSE ADP-ribosylation factor-like protein 4C Arl4c
GS_020215	4.184709	44.96788	-3.4257	2.79E-06	0.00049	PO2F3_RAT POU domain, class 2, transcription factor 3 Pou2f3
GS_006323	11.31982	120.5895	-3.4132	1.49E-18	1.24E-15	DLRB2_BOVIN Dynein light chain roadblock-type 2 DYNLRB2
GS_006432	22.31251	234.4571	-3.3934	8.17E-18	5.99E-15	ADCY5_HUMAN Adenylate cyclase type 5 ADCY5
GS_019698	2.770939	28.61049	-3.3681	1.14E-07	2.71E-05	MAP6_CHICK Microtubule-associated protein 6 homolog MAP6
GS_018288	2.35273	23.23004	-3.3036	1.58E-06	0.0003	MCHR2_MACFA Melanin-concentrating hormone receptor 2 MCHR2
GS_019585	2.665717	25.8945	-3.28	7.92E-05	0.00942	ENDD1_HUMAN Endonuclease domain-containing 1 protein ENDOD1
GS_020808	7.997151	76.89337	-3.2653	2.76E-05	0.00384	DCE1_HUMAN Glutamate decarboxylase 1 GAD1
GS_002681	1.951351	18.31033	-3.2301	1.22E-05	0.00185	DRD5L_TAKRU D(5)-like dopamine receptor dl
Novel00277	6.876046	62.79535	-3.191	5.63E-05	0.00706	
GS_020430	1.831979	16.65331	-3.1843	3.54E-05	0.00467	Y8948_DICDI Putative methyltransferase DDB_G0268948 DDB_G0268948
GS_014685	5.777943	52.01708	-3.1704	1.10E-10	3.82E-08	GTR9_HUMAN Solute carrier family 2, facilitated glucose transporter member 9 SLC2A9
GS_015091	3.098076	26.82902	-3.1143	5.87E-05	0.00727	PI3R6_MOUSE Phosphoinositide 3-kinase regulatory subunit 6 Pik3r6
GS_002625	10.80973	92.73437	-3.1008	0.00035	0.03402	IL1B_ONCMY Interleukin-1 beta il1b
GS_014684	4.121936	32.90253	-2.9968	1.53E-07	3.49E-05	GTR9_PONAB Solute carrier family 2, facilitated glucose transporter member 9 SLC2A9
Novel00559	14.39757	108.2886	-2.911	2.23E-14	1.19E-11	
GS_012394	16.78746	124.5129	-2.8908	6.45E-08	1.58E-05	TRY3_CHICK Trypsin II-P29
GS_000962	5.436657	38.26595	-2.8153	1.36E-07	3.19E-05	SPIR1_DANRE Protein spire homolog 1 spire1
GS_013701	3.485306	24.51692	-2.8144	1.56E-05	0.00228	RASFA_HUMAN Ras association domain-containing protein 10 RASSF10
GS_007378	3.988414	27.31687	-2.7759	2.22E-05	0.00317	MSHR_CHICK Melanocyte-stimulating hormone receptor MC1R
GS_000153	4.392473	27.54853	-2.6489	1.03E-05	0.00159	NCAM2_HUMAN Neural cell adhesion molecule 2 NCAM2
GS_016413	3.411063	21.09315	-2.6285	6.74E-05	0.0082	CA106_HUMAN Uncharacterized protein C1orf106 C1orf106
GS_012916	5.837222	35.13345	-2.5895	4.89E-07	0.0001	S45A2_MOUSE Membrane-associated transporter protein Slc45a2
GS_000622	18.59026	108.0145	-2.5386	5.74E-12	2.30E-09	MUCM ICTPU Ig mu chain C region membrane-bound form
GS_000397	6.853106	39.47936	-2.5263	2.70E-07	5.99E-05	CNTN4_MOUSE Contactin-4 Cntn4
GS_002614	12.57445	72.26562	-2.5228	5.32E-10	1.73E-07	GPR21_HUMAN Probable G-protein coupled receptor 21 GPR21
GS_014714	22.41773	128.6525	-2.5208	3.47E-06	0.00059	XYLT1_PANTR Xylosyltransferase 1 XYLT1
GS_016285	239.1776	1363.875	-2.5116	1.54E-21	1.46E-18	S10I ICTPU Ictacalcin
GS_021169	2.890312	16.36028	-2.5009	0.00046	0.0425	NSG2_HUMAN Neuron-specific protein family member 2 NSG2
GS_016151	3.259898	18.28687	-2.4879	0.00024	0.02501	
Novel00658	4.71961	26.05644	-2.4649	3.87E-05	0.00503	
GS_005871	4.170559	22.57227	-2.4362	7.26E-05	0.00868	REP15_HUMAN Rab15 effector protein REP15
GS_018934	3.368614	18.11021	-2.4266	0.00046	0.0429	RGR_HUMAN RPE-retinal G protein-coupled receptor RGR
GS_017738	7.845986	40.82365	-2.3794	1.04E-06	0.0002	NPDC1_HUMAN Neural proliferation differentiation and control protein 1 NPDC1
Novel00253	4.941525	25.54493	-2.37	8.03E-05	0.0095	

GS_006767	25.88451	128.3609	-2.31	2.86E-11	1.05E-08	ALK_MOUSE	ALK tyrosine kinase receptor	Alk
GS_007760	20.2313	96.4254	-2.2528	0.00027	0.02735	CP26C_HUMAN	Cytochrome P450 26C1	CYP26C1
GS_013111	6.878725	32.47642	-2.2392	2.80E-05	0.00385	NSMA2_MOUSE	Sphingomyelin phosphodiesterase 3	Smpd3
Novel00376	81.16629	382.6342	-2.237	2.11E-09	6.28E-07			
GS_008611	21.08001	98.59651	-2.2257	1.12E-09	3.49E-07	ADRB1_XENLA	Beta-1 adrenergic receptor	adrb1
GS_016109	20.27195	93.37405	-2.2035	6.09E-07	0.00012	SCG3_MOUSE	Secretogranin-3	Scg3
GS_004597	33.53328	154.3529	-2.2026	2.66E-11	1.01E-08	MREG_DANRE	Melanoregulin	mreg
GS_005905	41.65073	191.2326	-2.1989	5.80E-06	0.00095	GILT_BOVIN	Gamma-interferon-inducible lysosomal thiol reductase	IFI30
GS_006243	46.06882	209.6656	-2.1862	1.52E-05	0.00226	S6A13_MACFA	Sodium- and chloride-dependent GABA transporter 2	SLC6A13
GS_021002	8.633781	39.2703	-2.1854	8.05E-06	0.00126	PNPH_HUMAN	Purine nucleoside phosphorylase	PNP
GS_021141	37.53072	169.4484	-2.1747	4.76E-12	1.98E-09	CXA5_CHICK	Gap junction alpha-5 protein	GJA5
GS_001783	12.06517	54.21062	-2.1677	7.03E-07	0.00014	KNG_ANAMI	Kininogen (Fragments)	
GS_009046	17.25429	76.74461	-2.1531	1.44E-08	3.79E-06	KIT_TAKRU	Mast/stem cell growth factor receptor	kit
GS_008564	36.46248	160.9072	-2.1417	5.05E-11	1.81E-08	PRLR_CEREL	Prolactin receptor	PRLR
GS_015155	18.90942	82.57596	-2.1266	1.60E-08	4.16E-06	PCDH9_HUMAN	Protocadherin-9	PCDH9
GS_007401	18.48673	79.84006	-2.1106	4.29E-08	1.06E-05	SPON1_HUMAN	Spondin-1	SPON1
GS_013586	34.09485	146.0954	-2.0993	0.00043	0.04078	RASEF_HUMAN	Ras and EF-hand domain-containing protein	RASEF
GS_011506	30.12589	128.0548	-2.0877	3.47E-10	1.15E-07	ARG33_HUMAN	Rho guanine nucleotide exchange factor 33	ARHGEF33
GS_006925	65.93585	275.9091	-2.0651	1.66E-06	0.00031	PGS1_CANFA	Biglycan	BGN
GS_005244	7.792067	32.53383	-2.0619	5.05E-05	0.00641			
GS_010316	7.47908	31.22339	-2.0617	5.45E-05	0.00688	GPR61_MOUSE	Probable G-protein coupled receptor 61	Gpr61
GS_003202	9.871579	40.69411	-2.0435	3.85E-05	0.00503	CRFR1_CHICK	Corticotropin-releasing factor receptor 1	CRHR1
GS_008220	20.1216	79.23461	-1.9774	1.15E-07	2.71E-05	AHNAK_HUMAN	Neuroblast differentiation-associated protein	AHNAK AHNAK
GS_018838	30.16915	117.719	-1.9642	7.49E-09	2.05E-06	K1C13_ONCMY	Keratin, type I cytoskeletal 13	krt13
GS_020582	57.56468	222.0361	-1.9475	1.08E-10	3.80E-08	TRPM1_RAT	Transient receptor potential cation channel subfamily M member 1	Trpm1
Novel00096	242.7738	935.453	-1.9461	8.12E-05	0.00955			
GS_009135	26.91729	100.2918	-1.8976	3.85E-08	9.78E-06	PDE8B_HUMAN	High affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8B	
GS_015133	20.55664	76.22935	-1.8907	3.37E-07	7.23E-05	PRDC1_XENLA	Phosphoribosyltransferase domain-containing protein 1	prtdc1
GS_009601	12.49217	45.93848	-1.8787	3.30E-05	0.00444	PLD3A_DANRE	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-3-A	plcd3a
GS_018722	37.75956	138.3946	-1.8739	3.27E-07	7.09E-05			
GS_014594	23.51234	85.99608	-1.8709	2.94E-07	6.44E-05	FCAMR_MOUSE	High affinity immunoglobulin alpha and immunoglobulin mu Fc receptor	Fcamr
GS_015735	47.70114	172.5983	-1.8553	1.71E-09	5.15E-07	LMNA_XENLA	Lamin-A	lmna
GS_016610	78.78176	282.223	-1.8409	1.78E-10	6.09E-08	PDE10_HUMAN	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A	PDE10A
GS_008205	39.50128	140.617	-1.8318	6.48E-06	0.00103	FXI1C_XENLA	Forkhead box protein I1c	foxi1c
GS_021037	16.10221	57.24474	-1.8299	0.00036	0.03427	I17EL_HUMAN	Putative interleukin-17 receptor E-like	IL17REL
GS_011079	9.667309	34.01151	-1.8148	0.00054	0.0485	SDK2_MOUSE	Protein sidekick-2	Sdk2
GS_005575	9.313738	32.65683	-1.81	0.00013	0.01496	NCF1_BOVIN	Neutrophil cytosol factor 1	NCF1

GS_005605	43.67028	151.0734	-1.7905	2.17E-06	0.00039	COEA1_MOUSE	Collagen alpha-1(XIV) chain Col14a1
Novel00152	26.7023	91.01107	-1.7691	5.02E-05	0.00641		
GS_017609	100.2169	332.3031	-1.7294	5.80E-06	0.00095	ENTP5_CHICK	Ectonucleoside triphosphate diphosphohydrolase 5 ENTPD5
GS_009156	13.22255	43.79131	-1.7276	9.35E-05	0.01093	FOXD2_XENLA	Forkhead box protein D2 foxd2
GS_012661	81.67476	270.4512	-1.7274	1.49E-09	4.55E-07	SOX10_CHICK	Transcription factor SOX-10 SOX10
GS_021046	12.31538	40.64987	-1.7228	0.00019	0.02056	WNT7B_CHICK	Protein Wnt-7b WNT7B
GS_013840	22.75552	74.61966	-1.7133	3.13E-06	0.00054	FMN2_HUMAN	Formin-2 FMN2
GS_003635	20.40361	66.03142	-1.6943	1.82E-05	0.00264	PDIA1_BOVIN	Protein disulfide-isomerase P4HB
GS_016650	27.70322	87.15208	-1.6535	3.17E-06	0.00054	BAI3_MOUSE	Brain-specific angiogenesis inhibitor 3 Bai3
GS_013618	50.197	157.0913	-1.6459	1.39E-07	3.21E-05	PRDM1_HUMAN	PR domain zinc finger protein 1 PRDM1
GS_021359	95.20214	290.75	-1.6107	3.71E-08	9.53E-06	PANX3_MOUSE	Pannexin-3 Panx3
GS_018129	553.4878	1676.511	-1.5988	4.62E-07	9.72E-05	KCRB_HUMAN	Creatine kinase B-type CKB
GS_015243	48.87063	145.0143	-1.5692	0.00022	0.02347	VTCN1_RAT	V-set domain-containing T-cell activation inhibitor 1 Vtcn1
GS_003795	127.131	373.7051	-1.5556	3.15E-05	0.00426	PTC1_DANRE	Protein patched homolog 1 ptch1
GS_015514	496.364	1438.544	-1.5351	3.48E-05	0.00462	COBA2_HUMAN	Collagen alpha-2(XI) chain COL11A2
Novel00572	174.3427	503.6639	-1.5305	1.23E-05	0.00186		
GS_017985	12.69033	36.59046	-1.5277	0.00053	0.0476	CCD42_BOVIN	Coiled-coil domain-containing protein 42A CCDC42
GS_019376	36.75521	105.5109	-1.5214	6.17E-06	0.00099	HS3SB_HUMAN	Heparan sulfate glucosamine 3-O-sulfotransferase 3B1 HS3ST3B1
GS_006912	19.46115	55.85013	-1.521	0.00024	0.02439	NTF7_DANRE	Neurotrophin-7 ntf7
GS_010330	124.9547	356.2072	-1.5113	8.12E-09	2.17E-06	CAH6_HUMAN	Carbonic anhydrase 6 CA6
GS_014863	18.42844	52.0318	-1.4975	0.00035	0.03402	NEU1A_HUMAN	Neutralized-like protein 1A NEURL
GS_016931	40.33689	112.6337	-1.4815	0.00047	0.04324	TAC2N_HUMAN	Tandem C2 domains nuclear protein TC2N
GS_016790	166.6288	462.6071	-1.4731	4.06E-08	1.02E-05	AHI1_HUMAN	Jouberin AHI1
GS_014679	10648.78	29391	-1.4647	0.00017	0.01874	K1C13_ONCMY	Keratin, type I cytoskeletal 13 krt13
GS_007694	73.15349	200.1317	-1.452	2.70E-07	5.99E-05	ALKMO_DANRE	Alkylglycerol monooxygenase agmo
GS_001171	38.69591	105.7869	-1.4509	1.53E-05	0.00226	ST17A_RABIT	Serine/threonine-protein kinase 17A STK17A
GS_004260	1226.725	3348.968	-1.4489	0.00055	0.04891	FYN_XIPHE	Tyrosine-protein kinase Fyn fyn
GS_002722	57.28891	153.5481	-1.4224	2.01E-06	0.00036	LAMB2_MOUSE	Laminin subunit beta-2 Lamb2
GS_014502	29.04007	77.51998	-1.4165	7.01E-05	0.00849	CDK15_DANRE	Cyclin-dependent kinase 15 cdk15
GS_010852	44.20949	116.173	-1.3938	1.78E-05	0.00259	TM119_HUMAN	Transmembrane protein 119 TMEM119
GS_018226	180.2463	456.9367	-1.342	5.43E-07	0.00011	ES1_HUMAN	ES1 protein homolog, mitochondrial C21orf33
GS_012647	166.5968	418.1889	-1.3278	1.12E-06	0.00022	EDNRB_HUMAN	Endothelin B receptor EDNRB
GS_014776	31.102	76.87559	-1.3055	0.00015	0.01621	PCD10_HUMAN	Protocadherin-10 PCDH10
GS_016685	69.94283	160.3735	-1.1972	7.12E-05	0.00856	MSMB_PIG	Beta-microseminoprotein MSMB
GS_008156	108.119	247.3899	-1.1942	2.50E-05	0.00351	D2_DICDI	cAMP-regulated D2 protein D2
GS_013252	53.51169	122.1862	-1.1912	0.00017	0.01841	SATT_BOVIN	Neutral amino acid transporter A SLC1A4
GS_003179	538.0699	1224.406	-1.1862	1.58E-06	0.0003		

GS_020906	76.43969	170.2609	-1.1554	9.73E-05	0.01131	BACE2_HUMAN Beta-secretase 2 BACE2
GS_011190	138.667	308.6202	-1.1542	6.12E-05	0.00754	RPGP1_HUMAN Rap1 GTPase-activating protein 1 RAP1GAP
GS_014165	72.38483	160.5437	-1.1492	0.00013	0.01444	HHIP_HUMAN Hedgehog-interacting protein HHIP
GS_010295	387.5811	858.5141	-1.1473	0.00034	0.03285	MMP9_MOUSE Matrix metalloproteinase-9 Mmp9
GS_015779	127.813	282.9722	-1.1466	2.07E-05	0.00297	CA216_HUMAN UPF0500 protein C1orf216 C1orf216
GS_003876	40.54926	88.92702	-1.1329	0.00044	0.04117	PAX7_MOUSE Paired box protein Pax-7 Pax7
GS_015428	88.89908	190.3594	-1.0985	0.00037	0.03517	CNTFR_CHICK Ciliary neurotrophic factor receptor subunit alpha CNTFR
GS_018359	263.687	561.5324	-1.0905	2.49E-05	0.00351	EDNRB_CANFA Endothelin B receptor EDNRB
GS_008287	143.483	295.7553	-1.0435	0.00026	0.02601	PRS35_HUMAN Inactive serine protease 35 PRSS35
GS_010021	178.1393	349.724	-0.97321	0.00039	0.03748	PHOP1_DANRE Probable phosphatase phospho1 phospho1
GS_008315	291.4098	569.3749	-0.96633	0.00025	0.02507	CTGF_PIG Connective tissue growth factor CTGF
GS_001946	151.6316	296.0781	-0.96541	0.00053	0.04773	MYO5A_HUMAN Myosin-Va MYO5A
GS_005856	519.0089	988.4966	-0.92948	0.00022	0.02329	SPON1_CHICK Spondin-1 SPON1
GS_009380	2184.317	4124.294	-0.91697	0.00052	0.04692	FRPA_NEIMB Iron-regulated protein frpA serogroup B frpA
GS_015700	347.1862	177.6938	0.96632	0.00048	0.04383	DMBT1_HUMAN Deleted in malignant brain tumors 1 protein DMBT1
GS_012001	330.5612	169.006	0.96784	0.00021	0.02269	PLIN2_HUMAN Perilipin-2 PLIN2
GS_010268	359.7647	181.0233	0.99088	0.0002	0.02125	VGFAA_DANRE Vascular endothelial growth factor A-A vegfaa
GS_000538	242.3605	119.756	1.0171	0.00026	0.02601	CP2J2_HUMAN Cytochrome P450 2J2 CYP2J2
GS_020318	38280.86	18843.51	1.0226	0.00026	0.02631	DESM_CANFA Desmin DES
GS_016447	1082.05	532.0736	1.0241	0.00013	0.01478	FA8A1_HUMAN Protein FAM8A1 FAM8A1
GS_002994	452.2278	218.9195	1.0466	0.00011	0.01236	SAMP_MESAU Serum amyloid P-component APCS
GS_018185	224.4158	108.3004	1.0511	0.00033	0.0326	DSCAM_HUMAN Down syndrome cell adhesion molecule DSCAM
GS_011788	1622.507	775.9816	1.0641	0.00034	0.03285	
GS_006756	220.2531	102.7698	1.0997	0.00013	0.0149	CF162_HUMAN UPF0708 protein C6orf162 C6orf162
GS_002188	193.7795	90.27409	1.102	0.00012	0.01401	AQP7_MOUSE Aquaporin-7 Aqp7
GS_018739	878.7827	408.9483	1.1036	0.00038	0.03652	EPD_CYPKA Ependymin epd
GS_003073	55213.96	25616.33	1.108	0.00053	0.0476	HSP7C_RAT Heat shock cognate 71 kDa protein Hspa8
Novel00681	91.3119	41.68308	1.1313	0.0005	0.04585	
GS_017957	638.6058	287.0637	1.1536	5.85E-06	0.00095	SXT2_TAKPA Saxitoxin and tetrodotoxin-binding protein 2 psbp2
GS_002995	286.9177	128.6611	1.1571	5.71E-05	0.00712	CRP_RAT C-reactive protein Crp
GS_009938	143.7901	61.7035	1.2205	0.0001	0.0117	DHB14_BOVIN 17-beta-hydroxysteroid dehydrogenase 14 HSD17B14
GS_015381	720.1119	304.6461	1.2411	2.74E-05	0.00383	MT21C_BOVIN Methyltransferase-like protein 21C METTL21C
GS_006488	104.8874	44.36897	1.2412	0.00026	0.02631	P2RY8_CHICK P2Y purinoceptor 8 P2RY8
GS_007314	1520.171	603.0046	1.334	1.62E-06	0.0003	GRN_HUMAN Granulins GRN
GS_011843	273.7297	105.1519	1.3803	8.79E-07	0.00017	GNS_MOUSE N-acetylglucosamine-6-sulfatase Gns
GS_009020	86.26458	32.67895	1.4004	0.0001	0.01196	GROA_BOVIN Growth-regulated protein homolog alpha
GS_011555	1985.88	734.3907	1.4352	3.19E-06	0.00054	LYSC_PAROL Lysozyme C

GS_010525	49.83009	18.1153	1.4598	0.00041	0.03902	FABPI_PIG Fatty acid-binding protein, intestinal FABP2
GS_006200	44.03189	15.75119	1.4831	0.00044	0.04135	GRM3_RAT Metabotropic glutamate receptor 3 Grm3
GS_009467	129.992	45.10918	1.5269	1.47E-05	0.00221	TNNT2_CHICK Troponin T, cardiac muscle isoforms TNNT2
GS_002131	772.4685	265.5339	1.5406	1.10E-09	3.45E-07	MSTN1_XENLA Musculoskeletal embryonic nuclear protein 1 mustn1
GS_007697	38.96027	12.63197	1.6249	0.00024	0.02443	SOSD1_MOUSE Sclerostin domain-containing protein 1 Sostdc1
GS_010174	5231.999	1558.213	1.7475	6.56E-05	0.00803	LYG_PAROL Lysozyme g
GS_006975	3661.067	865.7575	2.0802	2.78E-09	8.15E-07	GLRK_RANBE Probable glutamate receptor
GS_017925	177.8423	40.07039	2.15	0.00015	0.01607	CATL_SARPE Cathepsin L
GS_004023	24.26654	5.355341	2.1799	0.00022	0.02292	ARL14_HUMAN ADP-ribosylation factor-like protein 14 ARL14
GS_000465	58.65324	12.18461	2.2672	1.64E-07	3.70E-05	CO1A2_RABIT Collagen alpha-2(I) chain (Fragment) COL1A2
GS_013015	36.71626	7.076408	2.3753	1.44E-06	0.00027	PE2R3_BOVIN Prostaglandin E2 receptor EP3 subtype PTGER3
GS_014186	360.8196	59.91753	2.5902	3.53E-06	0.00059	MSLNL_HUMAN Mesothelin-like protein MSLNL
GS_008785	419.4108	59.61546	2.8146	2.81E-05	0.00385	CAH4_BOVIN Carbonic anhydrase 4 CA4
GS_000336	1969.69	276.7654	2.8312	3.55E-26	4.35E-23	VIAAT_XENTR Vesicular inhibitory amino acid transporter slc32a1
GS_007481	965.9608	88.82826	3.4429	8.49E-10	2.72E-07	KCC1G_RAT Calcium/calmodulin-dependent protein kinase type 1G Camk1g
GS_002121	32.00992	1.603362	4.3193	5.66E-07	0.00012	CIDEC_HUMAN Cell death activator CIDE-3 CIDEC
GS_019550	11.37374	0.323018	5.1379	0.00014	0.01515	CXA3_MOUSE Gap junction alpha-3 protein Gja3
GS_001591	17.81749	0	Inf	3.48E-09	1.01E-06	NKX11_HUMAN NK1 transcription factor-related protein 1 NKX1-1