

Table S2

Gene name	FDR	Standard PRT mean	Control mean	Real Fold change
Acan	0.000314715	2481.181852	987.3104786	2.513071527
Ankrd13b	0.01072063	210.2378261	125.6467183	1.67324566
Antxr1	1.82521E-12	2031.369607	1051.561209	1.931765445
Ar	0	635.5931252	386.0156253	1.646547661
Arhgap28	6.32128E-12	140.467443	76.90589326	1.826484773
Arpin	0.007928823	118.4938633	65.2839379	1.815053858
Bag3	0.000214972	660.9661755	349.9252349	1.888878279
Baiap2	1.25806E-05	239.2073929	158.1308417	1.512718141
Bmp4	2.34076E-05	246.7275883	114.1272263	2.161864407
Camsap3	0.017567176	78.6834555	46.53452322	1.690861968
Castor1	8.04043E-08	77.64657706	32.8454483	2.36399809
Castor2	1.53507E-05	346.6566388	203.3902374	1.704391731
Cav1	0.000875849	1248.96044	639.6663236	1.952518671
Ccn2	0	2094.196053	860.6626503	2.433236823
Cd81	0.018403936	3570.904713	2250.203976	1.586924897
Cdh5	0.001311312	1889.292406	958.998642	1.970067864
Cdo1	1.87083E-08	536.2867181	314.0471038	1.707663315
Cgnl1	0.004917426	428.9957145	275.264088	1.558487769
Chadl	5.25415E-06	161.9477952	56.69958782	2.856242901
Clip3	8.34E-13	190.8976889	85.21506422	2.240187116
Cobl	0.016072487	85.62361517	56.75601181	1.508626354
Col12a1	0.000528149	8112.580064	4223.676992	1.92073875
Col18a1	0	344.7926801	145.5449608	2.368977106
Col1a1	1.43219E-14	368236.8701	198360.2196	1.856404832
Col1a2	1.31281E-08	146372.9382	82860.52021	1.766497939
Col2a1	0.000256677	13159.86646	5797.525777	2.269910814
Col4a1	0	3973.287959	1518.5139	2.616563443
Col4a2	1.44329E-15	2436.897632	973.8537536	2.502324013
Col5a1	2.54422E-05	4832.982913	3000.930872	1.610494583
Col5a2	0.000163713	8761.93459	5546.506703	1.579721266
Col5a2	0.000163713	8761.93459	5546.506703	1.579721266
Col6a1	3.99791E-13	3482.075192	1952.153001	1.783710186
Col6a1	3.99791E-13	3482.075192	1952.153001	1.783710186
Col8a1	4.45491E-10	3878.648307	748.1178011	5.184542195
Comp	0.00237703	2502.46979	1336.365725	1.872593515
Coro2b	0.012057552	168.4243778	106.4434898	1.582289138
Cpeb1	0.013082164	136.4565114	81.19942976	1.680510711
Cryab	0.024411807	772.6107744	339.619054	2.274933533
Cxcl10	1.85468E-11	164.4371719	32.3348908	5.085440769
Dact1	9.2585E-08	141.6451336	76.32994266	1.855695532
Dcstamp	2.30761E-06	217.9600611	103.3185328	2.109593072
Dlc1	2.19064E-07	1716.448325	973.3364438	1.763468671
Dpysl3	0	2698.771816	1267.841357	2.128635259

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Ecm1	1.69531E-13	969.7174554	497.935229	1.947477099
Edn1	2.31276E-07	21.82290757	5.331992399	4.092824209
Eomes	5.68169E-06	105.9511498	41.50209253	2.552911031
Epha2	0.001987782	419.8578731	273.4640491	1.53533115
Ext1	2.80127E-06	1176.910311	746.9024413	1.575721602
Fam107a	3.52614E-06	24.68411923	7.893125466	3.127293407
Fap	0.007290291	2379.219769	1400.737864	1.69854748
Fgf13	5.22249E-13	111.3565596	54.27944	2.05154216
Foxc1	7.82707E-14	665.4926585	409.1267025	1.626617511
Foxp3	0.000286935	68.5051881	29.87889357	2.292761877
Fstl4	0.000726896	33.08170863	9.483108533	3.488487822
Gdf3	2.52289E-09	128.3153556	68.93630576	1.861361066
Gli2	2.94209E-14	198.7215648	106.8253129	1.860247907
Hspa1a	0.006325736	50.84282096	27.89028145	1.822958332
Hyal1	2.03282E-13	453.9562555	272.2110521	1.667662838
Icam1	0	549.5501773	234.4602472	2.343894899
Id3	0	540.1586435	307.75535	1.755155982
Igf1	5.10703E-15	2464.339704	1335.012146	1.845930549
Inpp1	0.004787935	783.6349024	467.630709	1.675755863
Itgav	1.68867E-05	3481.835811	2160.228651	1.611790404
Itm2c	0.000977084	1502.4837	891.9888611	1.684419801
Jam3	0.029948535	115.3749522	74.76579894	1.543151465
Kank1	0.00778289	546.0541296	339.3811677	1.608970036
Kank1	0.00778289	546.0541296	339.3811677	1.608970036
Kremen1	0.001685465	502.9742017	334.7430253	1.50256813
Lamb1	5.63968E-11	739.9893738	351.8607182	2.103074699
Lif	0.002023187	69.42083983	30.49896456	2.276170383
Lmod2	0.005953171	202.6530089	79.94154142	2.535015028
Lpar1	0.000408565	528.0560443	295.6011596	1.786380151
Lrp1	4.17444E-14	16513.42178	8510.542186	1.940348971
Lrp11	2.70914E-06	58.71978003	29.64046463	1.981068137
Map1b	1.4766E-14	865.7997817	518.3427391	1.670322966
Mapt	0.012387221	71.39517775	43.9347726	1.625026682
Matn1	0.012059148	18.59775527	7.378075958	2.520678206
Milt6	5.95328E-07	1512.018581	928.950685	1.627662916
Mmp14	3.15376E-07	2875.887895	1687.325001	1.704406615
Mmp15	7.41192E-07	107.9800124	44.91094308	2.404314071
Mmp2	0	5791.280708	1828.657839	3.16695698
Mthfr	1.98773E-07	555.5345843	340.4808238	1.631617834
Nab2	0.002119158	216.0093727	136.9797805	1.576943487
Nrp1	3.03091E-14	1540.693307	820.307951	1.878188923
Nupr1	1.22607E-07	241.4359313	141.8788531	1.701704842
Ocstamp	1.35321E-10	261.4845432	96.24820342	2.716773237

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Osr1	0.007235615	45.0456988	25.54191972	1.763598794
Pdgfc	4.88498E-15	482.9133814	255.0480052	1.893421519
Phldb2	0	632.7264925	264.7064625	2.390294844
Pkd2	0.000539791	778.1619409	487.9540783	1.594744209
Plekhh2	0	626.1450269	287.7464345	2.176030532
Plk2	1.13442E-08	190.0657019	105.7904313	1.7966247
Pmepa1	7.60567E-07	747.9187773	420.1664334	1.780053612
Pmp22	0	545.2532632	294.9674848	1.848519892
Prag1	5.9508E-14	331.3326004	154.757433	2.140980203
Prkd1	0.017928935	55.96858606	33.44243687	1.673579778
Ptprg	2.1622E-06	820.9164751	517.3660025	1.586722883
Rapgef3	0.000237289	251.6346797	150.9960072	1.666498898
Rgma	0.000166605	196.6059961	92.83489383	2.117802778
Rtn4rl1	1.27969E-07	418.3354481	188.7662709	2.216155705
S1pr1	0.031993149	1222.889901	811.8446703	1.506310192
Scamp5	0.004677358	319.2623531	200.2099203	1.594638031
Schip1	0.02326013	274.8937086	181.3071201	1.516177128
Scin	0.000472144	138.0230094	64.08993527	2.153583223
Sema3b	4.13146E-08	174.5903557	88.50356538	1.972692908
Sema3f	0.010716743	164.409966	96.88922031	1.696886046
Sema7a	0.016571068	1148.933796	662.416769	1.734457595
Serpinh1	5.88152E-06	6154.03173	3759.344109	1.636996123
Sesn2	3.17435E-11	504.0652839	304.5833435	1.654933845
Sfrp2	5.32173E-10	672.8783522	80.47886192	8.360932749
Sh3bp4	0.004311567	285.1624164	173.8603082	1.640181243
Sh3pxd2a	1.44329E-15	3711.006675	2257.788296	1.643646874
Shank3	0.000354406	939.4009397	610.9590492	1.537584133
Shox2	1.12777E-06	458.6127163	300.6316413	1.525497164
Six1	0.001843386	289.2971822	187.4164638	1.543606022
Ski	0	1991.920482	1325.501449	1.502767488
Slc2a10	0.012287999	112.083273	72.504571	1.545878715
Smad6	0.023452724	440.0226399	290.6890789	1.51372264
Sox9	0	225.091792	86.65110704	2.597679357
Spg20	0	591.3729946	367.5453285	1.60897976
Stc1	0.01388323	49.21534908	28.84597849	1.706142473
Stxbp1	2.22082E-08	349.6041417	231.5146366	1.510073604
Sulf2	6.66134E-16	1851.047577	603.9169902	3.06506955
Syt11	9.3794E-06	142.6130879	76.9130435	1.854211996
Tbc1d30	0.025436087	52.54916987	33.39288283	1.57366377
Tgfbr2	0.000119674	3471.362167	2059.616553	1.685440992
Thy1	0.000140422	356.3723816	154.4107599	2.307950443
Tjp1	0	1357.897962	747.1170037	1.817517143
Tnfrsf11a	0	743.0024051	308.82498	2.405901249

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Gene name	FDR	Standard PRT mean	Control mean	Real Fold change
Trpv4	1.03251E-14	303.7763537	130.9907103	2.319067916
Twist1	0.00626411	169.3717351	101.6817339	1.665704632
Wnt11	0.037820874	30.69899852	17.20074609	1.784748078
Wnt5a	0.002098827	171.7026126	100.1494942	1.714463103
Yap1	7.02187E-09	661.3692888	399.1199173	1.657069117
Zfp365	0	141.0036098	19.10649371	7.3798789