SIGNIFICANTLY UPREGULATED IN DI (VS LS)
MORE THAN 1.4 FOLD

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Il24	83.14945	Pkib	7.027955	LOC498339	4.789891	Rnd1	4.043912	Gtse1	3.655875
Dsg3	36.05833	Mmp16	6.967778	Gabrp	4.763777	Mcm5	4.028621	Olr1590	3.629642
A2m	27.14565	Trim71	6.848962	Lst1	4.754392	Cd44	4.027044	Tmem90b	3.629502
Trem2	23.37725	Nuf2	6.838342	Slc9a5	4.741088	Nrm	4.024511	Lamc2	3.6291
RGD1310376	22.29959	Cass4	6.831418	Mybl2	4.719162	RGD1563235	4.019607	Prtfdc1	3.612188
Arntl2	17.62253	Kng2	6.680863	Adamts1	4.710999	Gnaz	3.995657	Kif22	3.590494
Msc	16.28994	Mcpt8	6.663902	Traf4af1	4.663871	Dlgap5	3.982949	Fam111a	3.589491
Kcnf1	15.27064	Tmem200a	6.619557	Mycn	4.661567	Lhfpl1	3.982936	Zc3h12d	3.547618
Nkain3	13.85747	Scara5	6.589612	Cd40lg	4.65575	Birc3	3.960273	Nacad	3.545775
RGD1564114	13.50593	Lingo1	6.588448	Nfkbiz	4.629151	Cd14	3.959804	Lox	3.522663
Cd300a	12.85527	Prr16	6.562767	Casc5	4.604122	Col3a1	3.944986	Lgals3	3.516545
Aurkb	12.65648	LOC685099	6.53631	S100a3	4.600602	Rad51	3.927977	Atp12a	3.514722
Cthrc1	11.9681	Reg3b	6.522058	Csdc2	4.570322	Ndc80	3.926611	Tead2	3.506752
Mcpt2	11.69798	Epha5	6.493807	Timp1	4.560302	Apobec3f	3.914629	Timd2	3.479005
Cyp1b1	11.63396	Nxph3	6.40434	Vstm2b	4.545628	Kcna7	3.910285	Hist1h2ail	3.477969
Gpr37l1	11.22352	Xcr1	6.219271	Hist1h1b	4.524605	St8sia4	3.898062	Pik3r5	3.473951
Cfi	10.51823	Car3	6.211296	Rgs16	4.51996	Tifa	3.88701	Tlr2	3.455087
RT1-M4	10.24645	Jakmip1	6.178388	Col1a1	4.505226	LOC497796	3.88502	RGD1560556	3.453047
Nmb	10.07894	Grik2	6.142132	Gas7	4.491125	Ubash3a	3.876217	Cd72	3.447683
Cxcl1	9.731611	Batf	6.010912	Ptprz1	4.45962	Cd300le	3.869025	Nr5a2	3.446144
Cenpt	9.393529	Fam101a	6.002297	Cd53	4.449535	LOC498350	3.857432	Lyc2	3.443319
Muc15	9.386086	Mrc1	5.985292	Dcaf12l1	4.43319	Kcnd1	3.856076	F13a1	3.441804
Rhbdl2	9.355104	Tcp11	5.975308	Osm	4.420041	Cd38	3.83461	Mcm3	3.440897
Htr1b	8.992653	Espl1	5.953222	Tlr10	4.419256	Itgb4	3.829808	Rprm	3.430259
Rgs14	8.949049	RGD1306230	5.890007	LOC691141	4.378333	C1qtnf6	3.817396	Kif23	3.428658
C6	8.810932	Rasgrf1	5.802495	Ccl19	4.348757	Cp	3.814873	LOC302022	3.419734
Mycl1	8.774514	Dynlrb2	5.761285	Ptger2	4.304178	Ddit4l	3.812099	Selplg	3.416684
Mir503	8.622275	Itgam	5.427869	Ptger2	4.304178	Gapt	3.807392	Clec9a	3.415466
Gpnmb	8.566379	Tmem40	5.375028	Grap2	4.294642	Cd300a	3.775115	Gli1	3.403262
Atg9b	8.425609	Crmp1	5.316727	Mmp20	4.266329	Ptpn7	3.753008	Snx20	3.399041
Fcgr2b	8.299367	Cdca7	5.310774	Top2a	4.264561	Ccr2	3.73731	Cdk1	3.394881
Nsun7	8.246306	Glipr1	5.242757	Msr1	4.257606	RGD1308226	3.731131	Plcb2	3.392952
Inhba	8.19408	Cdkn2b	5.239243	Cdca3	4.248119	Cenpa	3.725468	Ccna2	3.379073
Dbil5	8.184506	Cd80	5.223817	Clec7a	4.24104	RGD1565734pred	3.708975	P2ry12	3.378278
Ubd	8.106756	Ska3	5.21186	Fam131b	4.226903	Trip13	3.702088	March1	3.372241
Ypel4	7.958699	C3	5.183885	Oaz3	4.209274	Cd276	3.702042	Ly49i9	3.361655
Fcrls	7.863372	Egr2	5.158575	Cdkn1a	4.185427	Galnt5	3.700876	C2	3.358216
Fam12b	7.852227	MGC105649	5.066684	Slc10a2	4.176852	Cep55	3.690381	Kcnab2	3.355932
Clec10a	7.754061	Kif2c	5.055531	Tlr11	4.160335	Tmc1	3.685596	Arl11	3.346755
Socs3	7.539157	Pgbd5	5.044136	Syt12	4.159787	St8sia4	3.680089	Epdr1	3.339639
Odz4	7.496564	Ttc39a	5.037946	Lamb3	4.147567	Chac1	3.676915	Rac2	3.327604
Sele	7.390792	Ccl6	5.013377	Colq	4.131629	Lyz2	3.675224	Cdh17	3.313946
Rab7b	7.26392	Lrat	4.937597	Nipal4	4.125721	Rtn2	3.670116	Il17re	3.289094
Sstr3	7.257415	Tubb6	4.894841	Dsn1	4.121464	Rap2b	3.668333	Kntc1	3.283739
Siglec1	7.115536	Chodl	4.890495	Slpil2	4.106886	Lyc2	3.666942	Creb3l3	3.279202
Ccr1	7.071291	Spag5	4.807541	Dpep2	4.096994	Grem2	3.661954	Coro1a	3.276276
Siglec5	7.054926	Ms4a6b	4.79805	Baalc	4.088244	Lmo1	3.659093	Car13	3.274818

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Fn1	3.274043	Spdya	3.083523	Il7r	2.881195	Egr1	2.724829	Fbn1	2.638258
Tmem176a	3.271433	LOC690079	3.08342	Lilrb4	2.880717	Lilrb3l	2.717795	Mir1949	2.63449
Bcl2a1d	3.264202	LOC303566	3.080501	Mmp2	2.880477	Bves	2.717612	Lsp1	2.633631
A3galt2	3.262878	Marcksl1	3.075747	Il27ra	2.873812	Tacc3	2.716655	Trpv2	2.62954
Csf1r	3.260541	Kcnj5	3.073457	Tacr3	2.871447	Tnfsf13b	2.716085	Sla	2.627839
Kcna3	3.256654	Abcb1b	3.072556	Cenpi	2.870885	RGD1562552	2.714801	Ptprv	2.625477
LOC685157	3.255375	Fcgr2a	3.072499	Mgp	2.864	Trim66	2.71442	Slc25a27	2.624556
Gria2	3.252732	Tyrobp	3.065796	Pla2g7	2.861313	Rhoh	2.713085	LOC679825	2.622696
Alox12	3.249347	Tifab	3.06525	Ncf2	2.85761	Clec4a1	2.712872	Tlr5	2.622451
Mdga1	3.22192	LOC361016	3.056029	Camkv	2.856901	Cd37	2.707946	Psmb10	2.619873
LOC498276	3.216542	Fam129a	3.051859	Syn1	2.856223	Ifi204	2.706747	Mir423	2.619304
Igfbp1	3.214916	Wbscr17	3.050428	Alox5ap	2.855864	Fhl3	2.706002	Pstpip1	2.613107
Inhbb	3.21279	Clecsf6	3.034768	Pld4	2.851035	Casp4	2.705415	Ube2c	2.61128
Fcn1	3.212638	Fblim1	3.033301	Il21r	2.841557	Casp12	2.703809	Tlr7	2.606686
Polq	3.209762	Eif4ebp1	3.030983	Tmsb10	2.840278	Clspn	2.703114	Cd69	2.606287
Bcl11b	3.201863	C4-2	3.028873	Uhrf1	2.839003	Cd5	2.701138	Ppl	2.588805
Il7	3.19026	Dclk1	3.025324	Iqgap3	2.826355	Tgif1	2.699788	Galntl1	2.587842
Clec4a3	3.187252	Ramp1	3.019541	Hck	2.822532	Dok6	2.699321	Rad54l	2.586026
LOC685157	3.178621	Tmem119	3.01668	Cenpq	2.819346	C4b	2.699299	Laptm5	2.584166
Evi2a	3.176233	Runx1	3.00557	Ebi3	2.818137	Macc1	2.696192	Adamts12	2.580386
Cenpf	3.174909	Parvg	2.994097	Lrrc33	2.809166	Olr1584	2.693589	Adamts7	2.578247
Mpeg1	3.174288	Il12a	2.985854	Ns5atp9	2.808421	C4-2	2.691066	Pdpn	2.578013
Btn1a1	3.173238	Mcpt8l2	2.984019	Flnc	2.80772	Rin1	2.684308	Timeless	2.576017
Mir214	3.172485	RGD1562091	2.971747	Cnp	2.806361	C1qb	2.683432	Numbl	2.572991
Gstm1	3.172348	Mr1	2.967422	Asf1b	2.804459	RT1-Da	2.683309	Lrrc36	2.570506
Mastl	3.170606	Itk	2.963239	Gja1	2.801304	Vav1	2.683216	Fam70b	2.565191
Osmr	3.164204	Cd226	2.957754	Il18r1	2.788863	Mmp14	2.680553	Irf8	2.564216
Ccne1	3.15506	Ly49si2	2.953682	PVR	2.788173	Klra2	2.680499	Lcp1	2.563421
Diras2	3.138511	Ly49si3	2.953682	Tgm3	2.776652	Sh2b2	2.67545	LOC308990	2.56292
Prr11	3.136304	Ly49si3	2.950342	Capn13	2.774658	Tmem176b	2.669964	Mir125b-2	2.559104
RT1-Bb	3.133264	Cybb	2.947583	Clec12a	2.774275	Irf1	2.669102	Ccr5	2.559048
Fos	3.127587	Art2	2.942808	Relt	2.771902	Hcrtr1	2.666934	Card9	2.557288
LOC100158225	3.124291	Adcy7	2.94011	Cks2	2.770315	Col16a1	2.657866	Phlda3	2.546385
Cxcr4	3.123494	Mir19a	2.933452	Arid5a	2.769252	Gpr153	2.657411	C1s	2.544394
Arhgap30	3.120523	Slc25a24	2.927001	Olr1	2.759056	Rgs18	2.656015	Fgr	2.541973
Ccdc69	3.115614	S100a11	2.924279	Myo1g	2.758864	Myo1f	2.654638	Hcls1	2.536796
Ucp2	3.105489	Hk3	2.923421	E2f1	2.758838	Fbln1	2.654018	Gbp2	2.534841
Adcy2	3.102819	Mthfd2	2.914135	Tbxas1	2.757984	Shc2	2.65363	Ncf4	2.5348
Vim	3.099264	Arhgap9	2.911404	Hfe2	2.752063	P2ry13	2.651333	Cmtm3	2.532736
RT1-Ba	3.098304	Myo16	2.90671	Ndn	2.750556	Cd4	2.644993	Icam1	2.529106
Fkbp10	3.095636	Gpr68	2.900555	Gpr85	2.750162	Foxs1	2.644808	Cxcl10	2.527015
Uchl1	3.091676	Dpysl3	2.897587	Gpr34	2.749109	Cdc25c	2.641473	Cx3cr1	2.527008
Dcdc2	3.089789	Mcm6	2.897535	Tmem136	2.737739	Adam19	2.64005	Cdca2	2.525384

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Hmga1	2.523639	P2ry6	2.407448	Lrfn4	2.319494	Tshz3	2.226323	Plekho1	2.129231
Il16	2.519373	Arpp21	2.406915	Bmp1	2.319185	Hebp2	2.224999	Grem1	2.127634
Steap1	2.518845	Tmem146	2.405096	RGD1309522	2.316527	Slc7a5	2.224402	Hmgb2	2.126086
Tnfaip8l2	2.518195	Col14a1	2.400731	Rhbdf2	2.314225	Adcyap1r1	2.223928	RGD1563888	2.124105
Prc1	2.513073	Psd	2.400566	LOC688090	2.312889	Ccdc80	2.214134	Arhgap15	2.11614
Gngt2	2.512104	Plk4	2.399701	Tgfb1	2.309503	Gstm6	2.213455	Epsti1	2.114467
Nckap1l	2.51197	RT1-M1-2	2.399374	Cldn4	2.306132	Cmtm7	2.213183	Ptprs	2.111623
Sdk2	2.507793	Serpina10	2.398387	Cd40	2.296852	Ppp2r2c	2.212603	Ly96	2.107981
Btla	2.507301	Slamf8	2.395391	Rgs1	2.293579	Col4a1	2.208381	Pdgfrl	2.105844
Col5a2	2.504995	Btk	2.39452	Mrgprx3	2.292795	Prim1	2.207483	Ccdc8	2.103602
Il1rl1	2.50405	Caps2	2.393685	Pik3cd	2.292173	RT1-DMa	2.202889	Psmb9	2.103244
Ptprc	2.503629	Fcer1g	2.392902	Vangl2	2.289573	Cyp21a1	2.20197	Mfap4	2.102174
Cd68	2.501709	Chtf18	2.391077	Adamts15	2.288645	Arrdc4	2.196996	Ebf4	2.099931
Cpz	2.501476	Asam	2.39071	Limd2	2.286196	RGD1561145	2.194178	Lcp2	2.099394
Ncf1	2.500186	RGD1562284	2.390135	Syt5	2.284993	Pvrl2	2.194136	Rbm3	2.098717
Nlrp3	2.499373	Zfhx4	2.388303	Slfn8	2.283228	Snph	2.193527	Tubb5	2.0982
Ccdc102a	2.496517	C3ar1	2.380362	Abca1	2.281754	Alx1	2.189242	Septin1	2.094832
Capg	2.495702	Ap1s2	2.379223	Mir223	2.281613	Il17rb	2.18843	Col5a1	2.090978
Fcgr1a	2.494968	Cspg4	2.378904	Vom2r16	2.281225	Gch1	2.187047	Hmha1	2.090768
C1qtnf1	2.494095	Raet1l	2.378593	Klf5	2.280083	Mobkl2a	2.18668	Ikbke	2.087878
Hpgd	2.489346	P2rx5	2.376642	Lgals1	2.278197	Rftn1	2.185836	Gfpt2	2.087313
Kif26b	2.486067	Apol3	2.37473	Paqr8	2.276063	Cadm4	2.181602	Reln	2.085154
RT1-Db1	2.484114	Axl	2.374148	Lgals3bp	2.275282	Nid67	2.178102	Map1b	2.08345
Tpbg	2.482489	Ankrd13d	2.373839	Aplnr	2.266146	Olfm4	2.177481	RGD1565672	2.080267
RGD1564927	2.480491	Clip3	2.372023	Ydjc	2.264779	Gnb4	2.173733	Sparc	2.078626
Adamts2	2.479604	Hist1h1a	2.371691	Arhgap11a	2.264162	Map1a	2.173707	Fxyd5	2.078566
Ltbp2	2.47884	Naaa	2.370782	Col6a2	2.26406	Klhl6	2.172182	C1qc	2.078427
Tmem196	2.478799	Spi1	2.370352	Was	2.26278	Ptgis	2.167678	Sirpa	2.077188
Tnfrsf1b	2.477196	Tppp3	2.370064	Dscr6	2.262329	Dkk2	2.161716	Fes	2.074618
Clec5a	2.471618	Slc6a9	2.36898	Siva1	2.259881	Art4	2.160712	Pcdha1	2.074589
Syt3	2.467468	E2f7	2.367421	Rasgrp1	2.258675	Gli3	2.159826	Tmsb4x	2.073502
Loxl2	2.466458	Deadc1	2.354641	Prcp	2.258172	Cerk	2.155791	Arpc1b	2.068151
Apbb1ip	2.465762	Thsd1	2.35412	Hist1h2bn	2.256198	Tsga14	2.152551	Fam105a	2.067968
Pltp	2.461758	Emr1	2.350577	Antxr1	2.254709	Efemp2	2.147305	Syn3	2.067736
Sctr	2.460516	Fas	2.349963	MGC116202	2.251644	Cd36	2.146226	Plekhn1	2.065974
Robo3	2.459649	Ciita	2.348307	C1qa	2.251514	LOC361346	2.145464	Anxa3	2.064448
Tpx2	2.454971	Plek	2.346341	Scn9a	2.249997	Ccnb1	2.14417	Runx2	2.059206
Gna15	2.448788	Snai1	2.34633	Dkk3	2.249379	Lbp	2.143402	Nipsnap3b	2.055474
Tgfb2	2.448029	Opn3	2.343616	Bco2	2.248701	Cd8a	2.143147	Flna	2.053936
Lrrn4cl	2.446224	Anxa1	2.342488	Rasl10a	2.246923	Fam83b	2.141922	Racgap1	2.053222
Cd93	2.445756	Ezh2	2.34007	Smtnl2	2.243339	LOC500413	2.141861	Nrp2	2.052529
Mctp2	2.445365	Cenpk	2.337686	Hist1h2bl	2.242861	Rad54b	2.1394	Cadm3	2.050779
Baat	2.443958	Il28ra	2.336554	Brca2	2.238324	LOC689296	2.139109	Rab27a	2.050176
Abhd15	2.440679	Fabp4	2.334795	S100a10	2.23807	Tsc22d1	2.138053	Pcdha9	2.050135
Mcoln3	2.435112	Chaf1b	2.332398	Unc93b1	2.236169	Pole2	2.135995	Ednra	2.04199
Bub1	2.431109	Cd84	2.329705	Anxa2	2.23588	Steap4	2.135524	Il6r	2.04181
Pi16	2.429173	Col1a2	2.329091	Rad18	2.235156	Cpne8	2.134721	Pcdha8	2.040705
MGC112715	2.42542	Tes	2.32709	Mir24-2	2.23382	P2ry10	2.134419	Rnasel	2.04022
Septin6	2.423054	Dnm1	2.322567	Dapp1	2.232152	Arhgap25	2.132426	Pcdha11	2.039584
Pkmyt1	2.420803	Ncam1	2.321969	Cxcl11	2.226633	Cacnb3	2.131068	F2rl1	2.033012
RGD1560691	2.420455	Syk	2.321966	Aldh1a2	2.226398	Mmp28	2.130046	Irf5	2.032791

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Arnt2	2.031385	Prdm1	1.952348	Meis3	1.873271	Mrc2	1.81982	Sema4c	1.771386
Gm2a	2.030558	Pcdha7	1.952307	Cd83	1.872744	Gypc	1.819477	Limk1	1.76976
Ttc9	2.028265	Abr	1.951332	Mbnl3	1.871999	RGD1304693	1.819044	Rab31	1.76967
Rgs19	2.02715	Tiam1	1.951044	Tor3a	1.87144	Hist2h3c2	1.817013	Tmem88	1.768226
Sass6	2.023492	Galns	1.947442	Fgl2	1.870485	Il18bp	1.816149	RGD1308019	1.767099
Ly86	2.020739	RGD1566107	1.947365	Dlg4	1.869631	Ctla2a	1.81546	Pola2	1.766788
Chsy1	2.017165	Cdc7	1.946672	Ccl28	1.869518	Dctd	1.815243	Rab3d	1.765949
Gpr183	2.015907	RGD1565785	1.943485	Plp2	1.868411	Gls	1.81437	Cd300lf	1.765482
Dse	2.014863	Wdr62	1.942628	Stat4	1.865848	Arhgdib	1.814266	Pdlim7	1.765365
Xk	2.014798	Prex1	1.940838	Dtx4	1.863958	Lipe	1.814018	Ifitm3	1.765122
Ankrd6	2.013858	Agap2	1.938982	Dapl1	1.862938	Kif3c	1.813672	Mical1	1.764089
Col8a1	2.013624	Tpm1	1.93845	Cntrob	1.862887	B3galnt1	1.812959	Pld2	1.763821
Pcdhb5	2.009253	Elk3	1.936443	Sertad4	1.862698	Gpr39	1.812857	S1pr2	1.762437
Tnfrsf1a	2.007192	Ctss	1.936093	Ugcg	1.86211	Fam113b	1.812783	Fgd2	1.761495
Nradd	2.006014	Znf483	1.933695	Gpr155	1.862024	Elf3	1.811093	Vwa5a	1.760899
Dynlt1	2.005472	Prkcb	1.933683	Egfl8	1.85918	RT1-M3-1	1.808957	Slc27a3	1.757719
Abcb4	2.001491	Slc7a2	1.932235	Caskin1	1.8584	Hfe	1.808515	Hsd3b7	1.756572
Ier5	2.001186	Ankrd39	1.928909	Fyb	1.85584	Elmo1	1.807589	Galnt4	1.755024
Adora1	2.000668	Tlr1	1.926649	Pcdha4	1.855571	Ier3	1.807365	Cdh11	1.754304
Cnrip1	2.00029	Pappa	1.925762	Lrsam1	1.853872	Cacna2d1	1.80531	Kcnk6	1.754122
LOC363326	2.000043	Rab19	1.925447	Fkbp7	1.853733	Cyth4	1.805271	Scarf2	1.750346
Lhfpl2	1.99955	Map4k1	1.923786	Heph	1.852779	B4galt5	1.803335	Lmo2	1.749166
Aph1b	1.99611	Crispld1	1.922329	Tcea2	1.852646	Sema3f	1.802404	Entpd1	1.748027
Galnt13	1.994389	RGD1562342	1.921135	Cst3	1.852002	Gucy1a3	1.800804	Emp3	1.747859
Tekt1	1.992146	Rgs10	1.920746	Tmem26	1.850885	Pafah1b3	1.800679	Ifi47	1.747122
MGC105567	1.991831	RGD1560010	1.918927	LOC499136	1.850308	Krt8	1.799435	Rgma	1.746973
Pcdha10	1.988488	Lzts1	1.91855	RGD1305939	1.849902	Mcm2	1.7991	Olfml3	1.746595
Rab38	1.987168	RGD1565355	1.91567	Abcg1	1.849386	Asns	1.798578	Ksr1	1.745101
RGD1308165	1.986741	Lpxn	1.913799	Cald1	1.848576	Car15	1.798477	Ets1	1.743779
Pcdhac1	1.98659	Tnfrsf9	1.913798	Prkcdbp	1.847316	Casp1	1.797649	Sfxn3	1.743212
Pcdha5	1.985361	Dyrk3	1.913703	Sec14l2	1.846596	Psmb8	1.796577	Tap2	1.742387
Loxl1	1.982659	Ifngr2	1.910972	MGC108823	1.84647	Lmnb1	1.794221	Prrx1	1.741359
Fanca	1.981746	Actn1	1.909878	Ccdc23	1.844251	Apaf1	1.794133	Slc15a3	1.740948
Rcn1	1.980434	Tnfrsf26	1.90978	Pcdha12	1.844241	Bzw2	1.792353	Cwh43	1.738197
Adora2b	1.979314	Dbn1	1.906304	Pid1	1.842997	Cd74	1.790308	RT1-DMb	1.734815
Gpr18	1.977655	Spef2	1.905799	Prrg1	1.842089	Slc39a14	1.789344	Ddah2	1.734344
Arrb2	1.977082	Tap1	1.904671	Ctsk	1.841658	Tspan8	1.788619	Map3k1	1.729597
Klf6	1.975118	Stard6	1.904102	Kif21b	1.839513	Psd4	1.787315	Vasp	1.728887
Junb	1.971126	Tmem229b	1.900583	Bcmo1	1.839192	F2r	1.786037	Tc2n	1.728634
Pcdha3	1.968496	Cbx2	1.899236	Des	1.837448	Cldn1	1.78576	Zbtb25	1.72845
Apobec1	1.968199	Itga5	1.896595	Tcirg1	1.834628	Irak3	1.784296	Casp3	1.728433
RGD1311952	1.96534	Dock11	1.890272	RGD1311946	1.831894	Anxa5	1.782131	Gja4	1.727844
Pcdha6	1.963931	Pycard	1.887116	Bak1	1.825685	Lpar6	1.779522	Nlrp1a	1.726687
Aif1	1.962325	Col5a3	1.885736	Bhlhe22	1.825071	Irf4	1.778448	Adam23	1.725998
Pcdha2	1.961908	Bace2	1.885628	Cfh	1.823905	Ikzf1	1.776279	Sgtb	1.725378
Serpini1	1.959383	Kirrel	1.885116	Ralgds	1.822869	Pcdhb20	1.775658	Plod2	1.72132
Fermt3	1.958377	Donson	1.884323	Olfml2b	1.822654	Pqlc3	1.775356	Map4k4	1.721041
Gmnn	1.956311	Smpdl3b	1.884105	Tmem20	1.822009	Rarres2	1.774715	RGD1309543	1.719257
Lat2	1.956194	Pik3r6	1.882293	Myof	1.821605	Fut4	1.774579	Kcnd3	1.718492
Ptk7	1.952787	Wdhd1	1.879711	Impdh1	1.821493	RGD1566001	1.774074	Tmem194b	1.717446
RGD1560455	1.952676	Notch3	1.875692	Nfkbie	1.820561	Fut9	1.77232	Tcf3	1.717161
Pcdhac2	1.952394	Upp1	1.874689	Hoxc9	1.82036	Unc13d	1.771581	Pla2r1	1.716391

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Zfp385a	1.714864	Geft	1.666809	Txnrd3	1.620886	Map1d	1.576751	Pla2g15	1.540983
Inpp5d	1.713504	Mfng	1.664207	Tlr4	1.620878	Dopey2	1.576469	Cldn7	1.540241
Grid2	1.712194	Isg20	1.663782	Avpr1a	1.620193	Mical2	1.575748	RGD1560108	1.53924
Acer2	1.71204	Gpr171	1.663541	Tacc1	1.619674	Cdh6	1.574855	Abi3	1.539131
Palb2	1.710675	Tpst1	1.663221	Pole	1.619303	Cyp4a8	1.574767	Jmjd7	1.534946
Vat1	1.709241	Serpinb9	1.658666	Klf11	1.619231	Ppp1r9b	1.574124	Prr13	1.532898
Sbno2	1.709193	Tmtc2	1.657834	Cxadr	1.618914	Trim16	1.573896	Frk	1.531736
Itga1	1.706255	Map7d1	1.657392	Abhd4	1.617156	LOC654482	1.573035	Rnd2	1.53115
Tnfaip2	1.70597	Il10ra	1.656377	Paqr4	1.616814	Rpp38	1.57226	Mir301a	1.530964
Aph1b	1.705665	Gadd45b	1.653467	Sntb1	1.61588	Odz3	1.569283	Anubl1	1.528606
RGD1308626	1.704722	Vav3	1.652677	RGD1312026	1.615474	Elf4	1.568445	Nod1	1.52691
Pik3ip1	1.704601	Slc44a1	1.652298	Sorcs2	1.61412	Ptafr	1.567549	Ccdc34	1.52652
Srd5a1	1.703558	Slc7a1	1.650258	Slc39a6	1.613333	Dusp18	1.566179	Sh2b3	1.526291
Ccnjl	1.702438	Cygb	1.650258	Abcb10	1.612798	Chml	1.565869	Dram	1.526291
Mdc1	1.701834	Tmem164	1.649977	Srd5a3	1.611727	Wfdc2	1.565826	Pycr2	1.52624
Itpr3	1.700808	Gltp	1.649945	Tbc1d9	1.611045	Vcam1	1.56521	Stat3	1.525592
Nrarp	1.700744	Rab15	1.649305	Brsk1	1.610965	Sox18	1.565063	Rgs3	1.524595
Parp9	1.69983	Slc26a2	1.648533	Pkia	1.610832	Klhl5	1.564372	Esyt1	1.522214
Cdc42ep5	1.699031	Leprel2	1.648493	Cdcp1	1.6099	Ssbp4	1.564283	Cd48	1.522141
Gpm6b	1.69792	Lyn	1.648057	Aldh18a1	1.609756	Nmi	1.564137	Hoxc8	1.521078
Plscr3	1.697819	Schip1	1.64752	Ddx59	1.609204	H3f3b	1.563711	Armcx2	1.52033
Gpr65	1.696526	LOC500392	1.646538	Fam83f	1.604026	RGD1309362	1.563337	Atad2	1.519987
Snn	1.696094	Unc119	1.644528	Epha7	1.603016	Rhog	1.562187	Ldb2	1.519577
Irgm	1.69582	Rhob	1.643625	Fstl1	1.602681	St3gal4	1.561285	Zfp40	1.519525
Fam84a	1.694997	Adamts5	1.643601	Tmem43	1.602546	Il17rc	1.560656	Homer3	1.519341
Tpm2	1.693582	Tank	1.642831	Tax1bp3	1.602306	Rbl1	1.560256	Calhm2	1.519253
Wisp1	1.690112	LOC684352	1.64207	Ecop	1.601078	Rpl31	1.56011	Tspo	1.518433
Fgf12	1.688014	Foxm1	1.641717	Npc2	1.598876	Nap1l1	1.559708	Hrh2	1.517802
C1r	1.687709	Rab8b	1.641387	Irak4	1.598688	Cbr1	1.559616	Frem1	1.517158
Bcl2l11	1.68713	Tapbpl	1.640095	Bin2	1.598398	Il1rap	1.55946	Emilin1	1.51666
Tagln2	1.685815	Efhd2	1.639487	Tp53i13	1.598162	Tspan13	1.558499	Cd6	1.516186
Prr5l	1.685461	Klf10	1.639202	C1qtnf5	1.597225	Arhgef2	1.557806	Ptgfrn	1.515526
Pmm1	1.68436	LOC100310874	1.637957	Pak6	1.595955	Rgs4	1.556962	RT1-N2	1.515172
Ikbip	1.683765	Sh3bp1	1.635505	Pcolce	1.595814	Bmf	1.556667	Clec11a	1.514948
Cacna1c	1.682437	Tmem49	1.635491	Shroom3	1.594845	Lpin2	1.556544	Dcakd	1.513894
Jak3	1.681794	Psen2	1.634254	Aacs	1.593565	Serpine2	1.555216	Mbp	1.513163
Pik3c2b	1.68136	Abcc5	1.632873	Mcm4	1.592904	Fam110b	1.555063	Card6	1.512867
Gab2	1.681168	Hells	1.632047	Fhl2	1.592824	Arhgap20	1.554975	Rnase4	1.512558
Enc1	1.680719	Tlr6	1.630326	Blnk	1.591331	RGD1306959	1.553663	LOC362419	1.511969
Pla2g4a	1.679308	Rgs2	1.63023	Pcdh18	1.591292	Map3k8	1.552795	Afap1	1.510949
Hhex	1.679245	Sh2d4a	1.629036	Mgmt	1.589832	Gpt2	1.551342	Nfkb2	1.510433
Fam102b	1.678831	Cirbp	1.628426	Col6a3	1.58798	Arhgap4	1.551261	Tcf21	1.510357
LOC500956	1.678566	LOC683626	1.626887	Akna	1.587844	Cntln	1.551193	Gnai2	1.510095
Pvrl4	1.677581	Csda	1.626773	P2ry14	1.586095	Cand2	1.550868	Mst4	1.509945
Gpr37	1.677248	Endog	1.626282	Sult1a1	1.585403	Fhod1	1.548879	Robo1	1.509856
Flot2	1.675575	Fetub	1.625728	Rpp21	1.585243	Gng10	1.547608	Parp14	1.509402
Lrrc8c	1.67498	Gusb	1.625726	Soat1	1.584431	Rfx5	1.54698	Loxl3	1.506955
Itga4	1.674392	Pcdh19	1.624527	Stk10	1.584306	Porcn	1.546818	Cybrd1	1.506444
Scarb1	1.673919	Bgn	1.62435	Plxna3	1.58367	Sh2d3c	1.544511	Flt4	1.504875
Cxcl16	1.670464	Plcd1	1.622982	Pold2	1.58232	Ssfa2	1.544444	Ubtd1	1.504346
Myadm	1.669675	Rps16	1.622949	Gulp1	1.58014	Chst14	1.543731	Pnrc1	1.504056
Cd34	1.669557	Trerf1	1.622327	Ltbp3	1.579914	Cd97	1.542909	Btg1	1.501946
Acap1	1.669426	Txnip	1.621628	Sh3bgrl3	1.579014	Sec14l1	1.542657	G7c	1.500737
Fzd6	1.668416	Gsdmd	1.621531	RGD1566265	1.578876	Zfp280b	1.54184	Arid5b	1.500392
Bicd1	1.666999	Capn5	1.621379	Pdgfrb	1.578664	Rassf5	1.541158	Dnase2a	1.500279

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Sh3bp4	1.499636	Pald	1.476295	Hcn2	1.45838	Calcrl	1.436504	Ogn	1.416878
Sv2a	1.499527	Dnmt1	1.475562	Smc2	1.457983	Ptpn9	1.436247	Rps24	1.416329
Gpx8	1.497478	Sat1	1.475158	LOC679651	1.457062	Pcdhga12	1.435402	Abcg3l4	1.415629
Igtp	1.496557	Spon1	1.474739	Fgfr2	1.456261	Csrp1	1.43501	Zfp385b	1.415517
Slc44a2	1.496121	Zcchc11	1.474332	Pdgfra	1.456149	Zfp36l1	1.434963	Rpusd2	1.414208
Lamc1	1.495703	RT1-CE5	1.474033	Ampd3	1.455929	Mnt	1.43407	Ddx41	1.413399
Fry	1.492696	Prickle2	1.472621	Usp28	1.455109	Dennd2c	1.433447	Prss23	1.412944
Zeb2	1.4917	Col18a1	1.472006	Qpctl	1.453943	Pcdhga11	1.433246	Septin9	1.412307
Ng35	1.489778	Il6st	1.471749	Lpcat1	1.453901	Rps4x	1.432495	Zbtb38	1.412289
Klhl14	1.489511	St5	1.470962	Slc39a1	1.453662	Pik3ap1	1.432325	Ssh2	1.412266
RGD1309104	1.489104	Pdgfd	1.47031	Trpm3	1.453631	Rhobtb3	1.431794	Pygb	1.410815
Pea15a	1.489052	Fam198b	1.469483	Pcdhga3	1.452173	Plscr4	1.431439	Cdca4	1.409831
Aspm	1.488724	Tmem132a	1.4694	Ranbp17	1.450908	Pcdhga2	1.431055	Zcchc24	1.409763
Pdgfb	1.48771	Pde4b	1.468374	Fam3c	1.450757	Pcdhga5	1.430527	Slc9a1	1.408362
Sh3kbp1	1.487696	Fam49a	1.468282	Pcdhga7	1.450684	Ehd4	1.43039	Ocrl	1.408087
Mdm1	1.487624	Shc1	1.468048	Il13ra1	1.450567	Tnip2	1.429611	Ppil1	1.406935
Ccdc82	1.487134	Rpl22	1.467853	Enah	1.448357	Ttpal	1.429173	Pip4k2b	1.405288
Gmpr	1.487045	Gucy1b3	1.467305	Hdgfrp3	1.448075	Cntf	1.429001	Camk2d	1.404922
Npdc1	1.486827	Sall2	1.465697	Pcdhgb8	1.445231	Abcg3l3	1.427456	Pcdhga9	1.40452
Maged2	1.486543	Rbpj	1.463545	Fmod	1.44512	RGD1561149	1.426289	Xdh	1.404429
Cep97	1.486497	Setd7	1.463215	B4galt6	1.444988	Bmp6	1.425782	Agpat2	1.40413
Timp2	1.485981	RT1-N1	1.462999	Dtx3l	1.443557	Impa2	1.425626	Tspan9	1.404082
Fam38a	1.484029	Hoxd9	1.462835	Nck2	1.442631	Slc46a1	1.425066	Tcof1	1.403316
Ano1	1.483871	Wdr6	1.462791	Znf608	1.440896	Rai14	1.424515	Ppap2a	1.403231
Pgm2l1	1.482401	Mirlet7a-1	1.462583	Csgalnact1	1.439897	Stxbp1	1.423498	Phlda1	1.402887
Sh3bgrl	1.482053	Tmem123	1.461169	Klhl29	1.438947	Scmh1	1.421823	Dgcr14	1.402534
Itgb3bp	1.481466	Lmf2	1.46102	Ilvbl	1.438777	Tmed3	1.421527	Syt11	1.402073
Mboat1	1.481184	Ppp1r14b	1.460343	Lyst	1.43817	Tmem2	1.420004	Notch2	1.402054
Gnpda2	1.480679	Tex10	1.460217	Cdh3	1.437234	Arhgef6	1.418615	Slc2a8	1.400261
Il1r1	1.479091	Slc31a2	1.458806	Gpc3	1.437006	Gimap5	1.417736	Arrdc1	1.400236

SIGNIFICANTLY DOWNREGULATED IN DI (VS LS) (TO LESS THAN 0.6 FOLD)

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Gabrb1	0	RT1-EC2	0.072724	Acox2	0.139741	Akr1b8	0.197842	Ppef2	0.229972
Kcnk16	0	Snca	0.074562	Slc7a13	0.141938	Ccna1	0.198776	Cyp2d3	0.23027
Scgb1c1	0	Slc22a13	0.078	Gjd2	0.149182	Kap	0.200207	RGD1305627	0.232617
Olr47	0	Olr1326	0.078722	Gapdh-ps1	0.159225	Areg	0.201881	Ifit1	0.233909
Cym	0	Defb42	0.082545	Dhrs7	0.15955	Frmd3	0.202374	Wnt2b	0.235518
Serpinb12	0.013659	Tm4sf20	0.086188	LOC680734	0.160824	Iqch	0.202903	Chrna2	0.23722
Cyp8b1	0.019777	RGD1565166	0.087252	Ccl1	0.162501	Cyp2d5	0.204623	Akr1c12	0.23836
Slc7a12	0.025549	Foxn4	0.095457	Slc35f1	0.165305	Mogat2	0.206481	Dio2	0.238609
LOC361914	0.02696	Slc22a7	0.103644	Gc	0.167232	Mir185	0.207715	Mlc1	0.238704
Cyp2c11	0.03077	Cabp7	0.104006	Hnmt	0.175538	B3gat1	0.211829	Usp29	0.241352
Anxa13	0.033898	Tff3	0.108102	Uncx	0.176962	Ppic	0.218353	Akr1c13	0.241884
Olr1331	0.043364	Klk1b21	0.110587	Rgn	0.177961	Grpr	0.220631	Mylpf	0.246184
Rt1.aa	0.05031	Sds	0.110709	Gtpbp4	0.179649	Gucy1b2	0.223198	Ntrk2	0.246492
Slco1a1	0.051817	Cftr	0.116516	Tal2	0.18099	LOC498330	0.2233	Cyp2d1	0.24943
Aldh1b1	0.058689	RGD1304731	0.119168	Mir326	0.182101	Col9a1	0.225727	Slc16a4	0.250784
Hsd3b6	0.061384	Ly49i5	0.121002	Nhlh2	0.182366	Akr1c12l1	0.226539	Grm8	0.252987
Sptlc3	0.062514	Hormad2	0.131552	Mir3593	0.182611	Ldhd	0.227278	Cyp4a2	0.253998
Wisp3	0.063111	Cacng5	0.132744	RGD1562658	0.188583	Afm	0.227687	Ppfia4	0.255932
RGD1562492	0.065209	Ky	0.133759	Sv2b	0.189557	RGD1564865	0.228126	Cdh7	0.256397
Atp1a4	0.066835	RGD1563714	0.138113	Akr1c14	0.197534	Cryab	0.229551	Gcm1	0.257429

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Prrt1	0.257886	Hsph1	0.322612	Ccrn4l	0.384106	Stom	0.431249	Tnxa	0.467817
Kcna5	0.25795	Gpr165	0.323778	Kcnk3	0.384144	Aadat	0.431836	Slc16a14	0.468515
RGD1562673	0.260275	Cdo1	0.32423	Bst2	0.384445	Slc15a2	0.432062	Pzp	0.469001
Matn1	0.261171	Mcoln2	0.324364	UST4r	0.384613	Nxph4	0.433409	Adcy1	0.469105
Melk	0.263159	Gsta3	0.325665	Smpd3	0.385744	Acss2	0.434623	RGD1560471	0.469291
Lrtm2	0.263692	Klk1b3	0.325942	RT1-T24-3	0.38651	Iyd	0.436021	Dnaja4	0.469704
Tnmd	0.264181	Ugt2b36	0.332366	Tnfrsf11b	0.386628	Slc38a3	0.437274	Ak3l1	0.470015
LOC360919	0.264456	A2bp1	0.335212	Chrne	0.387094	Cilp	0.437922	RGD1309534	0.470328
Egf	0.264639	Anpep	0.340844	Pgr	0.387258	Pklr	0.439021	Tex15	0.470742
Mrap	0.264961	Slc22a9	0.341947	RGD1304644	0.388328	Cbs	0.439181	Pim3	0.470996
Cyp4a2	0.266555	Nefm	0.342241	Fam189b	0.388657	Cycs	0.440135	Alpl	0.472873
Cyp4a3	0.267575	Trank1	0.345351	Clec2l	0.388905	Apom	0.44091	Sult5a1	0.473418
RGD1561849	0.270924	Rdh2	0.346105	Clrn3	0.389155	Enpp3	0.441283	Pdxp	0.475382
Asrgl1	0.272912	Fmo3	0.348259	Nat8	0.390901	Hagh	0.442052	Trpc5	0.475737
Ihh	0.275958	Akr7a3	0.348363	Rfx6	0.392238	Slc39a8	0.443626	Acmsd	0.475807
Gcgr	0.276076	Rdh7	0.34918	Slc25a30	0.394758	Sts	0.44502	Ccl5	0.475993
Cpne4	0.276362	Prep	0.349271	Nalcn	0.395319	Pecr	0.445025	Mme	0.476116
Casq1	0.278086	Abca4	0.350592	Apoc2	0.395844	Tmem86a	0.445854	Aqp1	0.47706
Slco1a5	0.278353	LOC501038	0.353181	LOC494499	0.396287	Hrasls	0.445896	Slc2a5	0.477155
Exd1	0.279968	Mapk10	0.353316	Csad	0.398955	Cryz	0.446432	Basp1	0.477737
Me1	0.280492	Slc22a12	0.355296	Zfp93	0.401237	Apoh	0.446823	Ppm1k	0.47819
Coch	0.280899	Proc	0.356592	Oat	0.40145	Nefh	0.447267	Snx7	0.47837
Dio1	0.283558	Slc47a2	0.357692	Umod	0.401941	Gsta2	0.447537	Slc17a2	0.478514
Nptx1	0.284437	Mbl1	0.358407	Nox4	0.402196	Aspdh	0.44775	Lipg	0.479377
Cml2	0.286799	Ghr	0.35869	Ggh	0.403689	Hrsp12	0.44785	Hspa8	0.479399
Odc1	0.287664	Asgr1	0.35972	Tigd3	0.404585	Dmgdh	0.448695	Fam188a	0.479466
Pou3f1	0.287679	Lactb2	0.36107	Gclm	0.405358	Cyp2j3	0.449124	Fmo2	0.479694
Hsd17b1	0.289839	Sspo	0.361783	Elfn1	0.406089	Nlrp6	0.449126	Galnt14	0.480001
Trim63	0.290424	Hao2	0.363891	Slc5a9	0.407191	Lrrc10b	0.449233	Spo11	0.480219
Mx2	0.290627	Prlr	0.363899	Gjb2	0.407666	LOC367975	0.449658	Fam43a	0.480601
Osgin1	0.292738	Slc23a1	0.365586	Slc3a1	0.408081	Slc21a4	0.450698	Ovol1	0.480728
Hpse2	0.292939	LOC500124	0.365675	Fam25a	0.409643	Dnaja1	0.450781	Slc30a2	0.481019
Wfdc1	0.298137	Car7	0.366033	LOC500118	0.410107	Abcc12	0.452929	Mylk3	0.481424
Gng13	0.298455	Ces1e	0.366485	Ppp1r1b	0.411777	Gsta5	0.453848	Gramd1b	0.483214
RGD1564894	0.299079	Gdf10	0.367301	Abcb1a	0.4132	Mybl1	0.455184	Fmo4	0.484039
Usp26	0.300605	Ust5r	0.367829	Samd5	0.414308	Aadac	0.4552	Blvra	0.484172
Upp2	0.30077	Rxfp2	0.368765	Ace2	0.414368	Fhit	0.455517	Dleu7	0.484746
Cyp2d2	0.302451	Gas2	0.369514	Esr1	0.414508	Hsp90aa1	0.456362	Hhip	0.484827
Ggct	0.302515	Cml5	0.369638	Dpp6	0.414761	Col9a2	0.459542	Grhpr	0.485332
Cpxm2	0.303244	Tmod4	0.371923	Grid1	0.41623	Slc22a25	0.459913	Neto2	0.486228
Ggct	0.303377	Necab2	0.37293	Scn1b	0.41738	Entpd8	0.460173	Acad10	0.488349
Klk1l	0.305362	Irf7	0.373841	Slc6a13	0.417588	Klk1	0.46028	Mettl7b	0.488562
Tmprss8	0.307162	Prom1	0.374003	Tmem88b	0.417737	Gss	0.460693	Slc22a6	0.488636
Slc22a2	0.307412	Id4	0.374072	Sult2b1	0.41953	Akr1b10	0.46099	Hsd3b	0.488842
Aspg	0.308428	Klk1c10	0.374443	Serpinf2	0.419818	Slc1a4	0.461058	Wwp1	0.490696
Sdsl	0.309177	Mat2a	0.374584	Cml1	0.422075	Tmlhe	0.461475	Slc35d1	0.491796
Acot12	0.314729	Cyp2d4	0.377437	Cndp1	0.422421	Phf19	0.461765	Akr1c19	0.492316
Slco4c1	0.316808	Pkd2l2	0.378378	Ankrd29	0.423168	Hspb1	0.463222	Sult1c2	0.493499
Slco1a6	0.3181	Slc39a12	0.380762	LOC685046	0.423469	Acy3	0.463225	Ddo	0.493556
Ghrhr	0.318147	Nat8b	0.382362	Irx3	0.42428	Grin2b	0.463456	Slc13a3	0.49417
Gclc	0.318503	Abcc8	0.382466	RGD1310262	0.424941	Agt	0.464683	Slc6a18	0.494689
F13b	0.319365	RGD1304605	0.383296	Fbxo36	0.425079	Cdh20	0.465454	Acy1	0.495713
Piwil2	0.320467	Miox	0.383353	Alpk3	0.425319	Tmem125	0.465595	RGD1308114	0.496525
Slc25a25	0.322291	Ntrk1	0.38358	Cpvl	0.428308	Esm1	0.46659	Amacr	0.499578
RGD1305733	0.322426	Akr1c1	0.383776	Slit1	0.430538	Clk2	0.467427	Aqp11	0.499604

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Hist1h2ba	0.500298	Slc35f2	0.525943	Mpdz	0.549535	Akr7a2	0.570597	Adam1a	0.5846
Sema5b	0.500462	Kynu	0.527304	Ahsa2	0.549548	Ddx25	0.570718	Espn	0.584879
Abhd14a	0.503446	Pgm3	0.52787	Khk	0.549953	Rasl10b	0.570944	Pdzd3	0.584929
Olr1668	0.505371	Slc30a1	0.528015	Ak2	0.551558	Abhd14b	0.5711	Dusp9	0.584949
Gstt1	0.505427	Igfbp4	0.528067	Snta1	0.553245	Crot	0.571854	N6amt1	0.585597
Ifit3	0.50546	Hsd3b1	0.528163	Ddx58	0.553446	Abhd1	0.572693	Scn8a	0.586191
LOC500300	0.506503	Ptprq	0.528657	Chordc1	0.553847	RT1-A3	0.57278	Usp20	0.586466
Ahcy	0.507068	Gsta4	0.528805	Zfp354a	0.554754	Tmem33	0.573239	Tpk1	0.586706
Neu2	0.507121	Upb1	0.529072	Ddx19b	0.555359	Acadm	0.573439	Mep1a	0.587119
Aspa	0.507498	Hgd	0.530035	RT1-A1	0.556427	Dhx58	0.573652	Gamt	0.587242
Pld1	0.507978	Ces4a	0.5302	Sod1	0.556864	Hspe1	0.574487	Cacybp	0.58725
P4ha1	0.509258	Gjb1	0.53044	Kifc1	0.557339	Mgat3	0.574558	Slc10a5	0.587308
Htatip2	0.509404	RGD1309228	0.531152	Ppm1j	0.557467	Msra	0.574623	Pfkfb4	0.588143
Creld2	0.509977	Dak	0.531235	B3galt5	0.557858	Gfra1	0.575259	Ush1c	0.588482
Btc	0.510037	Ptpru	0.53128	LOC306766	0.558195	Slc6a4	0.575811	Atp11a	0.588493
Hspa5	0.510677	Cth	0.532802	Bhmt2	0.559633	Acox1	0.576044	Glyat	0.588557
Mir107	0.510886	Lace1	0.533703	Oxct1	0.559799	Mcoln1	0.576904	RGD1565316	0.589162
Ehhadh	0.512875	Cyp2j4	0.533897	Acn9	0.560301	Serpinc1	0.577229	Msrb2	0.589943
LOC500947	0.513844	Stat5a	0.534077	Egfl6	0.560566	Mfsd7	0.578055	MGC95152	0.589966
Fahd1	0.513861	RGD1564171	0.534112	Tmem205	0.560899	Tfec	0.5789	Slc47a1	0.590414
Otog	0.513889	Pamr1	0.536559	Iah1	0.560955	Vegfb	0.579039	Ddi2	0.591327
Hacl1	0.514151	Amn	0.536777	Cdr2	0.560988	Capn6	0.579386	Slc25a15	0.592058
Cesl1	0.515434	Sec16b	0.536919	Tmem14a	0.561783	Aplp1	0.579544	Fah	0.592397
A1cf	0.51567	St6gal1	0.537324	Slc13a2	0.562235	Rarres1	0.579923	Sgk1	0.593414
Col4a4	0.515796	RGD1565997	0.537547	Krt10	0.564537	Zc3h15	0.58072	Pxmp2	0.595395
Hbxip	0.515868	Slc22a18	0.540348	Epb41l4b	0.564739	Hnf4g	0.580827	Slc5a11	0.595587
Ces1f	0.517095	Haao	0.540679	LOC100125368	0.565139	Ftcd	0.580985	RGD1310686	0.596082
Rimbp2	0.517116	Entpd5	0.54116	LOC500797	0.565226	Dao	0.581656	Mlycd	0.596136
Slc23a3	0.518615	Tmem174	0.541414	Senp8	0.565354	Mocs2	0.581728	Stip1	0.59638
Tmod1	0.519471	Car5b	0.541492	Nt5e	0.566193	Ncbp1	0.582478	Thrb	0.596603
Cib2	0.519725	Akap6	0.542008	LOC498662	0.566659	Xpnpep2	0.582513	Cisd1	0.597252
Agmat	0.519855	Olfml1	0.543175	Mx1	0.566721	Slc25a38	0.582896	Nudt12	0.597907
Ugt2b7	0.520774	Tmc3	0.543209	Hnf4a	0.566865	Scand1	0.583002	Oxnad1	0.598087
Ces2h	0.520809	Ddx19a	0.543284	Tinag	0.567199	Gp2	0.583043	Phyhd1	0.598287
Rnls	0.520854	Nit1	0.544963	Pank1	0.567826	Ccdc113	0.583161	Fam86a	0.59897
Tpmt	0.522171	Tecta	0.54615	Slc22a1	0.569232	Agphd1	0.58352	Macrod1	0.599353
Dpys	0.523709	Ttc36	0.547242	Etv5	0.569258	Cmbl	0.583787	Dpp4	0.59961
Mpp6	0.523954	Dnajb2	0.547685	Jag1	0.569495	Oxct1	0.584423	Fbxo9	0.599643
Eci3	0.524879	Tyw1	0.548473	Hspa8	0.569687	Sgca	0.584476	Cldn6	0.599653
LOC686288	0.525368	Eaf2	0.549268	Erc2	0.570196	Cat	0.584551	Thnsl2	0.599701

SIGNIFICANTLY UPREGULATED IN DS (VS LS) TO MORE THAN 1.4 FOLD

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Mmp8	43.93308	Il24	19.00611	Alox15	11.54505	Ccl22	9.739922	Cd300a	8.125758
S100a8	25.04238	A2m	16.11324	Pdcd1	11.49666	Rgs7bp	9.271599	Lppr5	8.111593
Kcnf1	23.17831	Trem2	14.72908	Nmb	11.16625	Nkain3	8.74272	Olah	7.812908
Chi3l1	19.09019	Sell	13.55383	Cenpt	10.50532	Mir503	8.255178	Rgs14	7.812429

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Gipc3	7.676574	Hfe2	4.187472	Ddx4	3.120009	Slc2a6	2.659347	Hk3	2.358363
Fgb	7.597658	Ypel4	4.152697	Ephb6	3.115367	Dlgap5	2.635152	Unc5a	2.355246
LOC24906	7.334892	Sh2d2a	4.151598	Ms4a6b	3.103923	Bnipl	2.63353	Plek	2.354175
Lef1	7.313626	Pthlh	4.081139	Clstn2	3.101141	Uhrf1	2.629338	Gria2	2.351948
Hist1h2ak	7.002566	Mir20a	4.068282	Actn2	3.098324	Cd72	2.622141	Sphkap	2.340265
Nrtn	6.869658	Espl1	3.981033	Kng1	3.083033	Mastl	2.621819	Dscr6	2.33773
Selp	6.805054	Socs3	3.963792	LOC287167	3.024358	Caps2	2.620671	RGD1308694	2.327125
Nxph3	6.719151	Clec10a	3.881922	Ptpn7	3.01269	LOC685157	2.62031	Kcnd1	2.326659
Hemgn	6.652276	Cthrc1	3.832343	Rab26	3.012462	Hjurp	2.619422	Kif22	2.313728
Ntsr1	6.601076	B4galnt4	3.820941	Bco2	2.994384	Pkp1	2.617233	Slc16a3	2.309212
Vom2r13	6.550116	Tcp11	3.7884	Eapa2	2.988256	Tifa	2.610553	Cdca7	2.308496
Pemt	6.469662	Csdc2	3.778104	Serpina1	2.949925	Plcb2	2.600615	Cdc6	2.307764
LOC685099	6.404196	Dynlrb2	3.763635	Slc14a1	2.941771	LOC685157	2.595878	Stra6	2.295861
Tnni2	6.092615	Myom2	3.755606	Glipr1	2.939479	Fam109b	2.593488	Alox12	2.292537
Oaz3	5.896277	Ubd	3.689323	Gpr85	2.930222	Cdkn2b	2.588571	Cd38	2.28712
Btn1a1	5.721839	Cdt1	3.677842	Ccl21	2.918611	Mcm5	2.585056	Arid5a	2.286968
Il8rb	5.717403	Grap2	3.638443	Mfi2	2.915675	Pbk	2.575077	Sdc1	2.271959
Grik2	5.699233	Ptprv	3.632387	Fam131b	2.911264	Clstn2	2.57351	LOC681325	2.269584
Sele	5.622896	Mapk15	3.60445	Baat	2.909345	Tlr10	2.572425	Arhgap30	2.268045
Sstr3	5.594951	Vstm2b	3.582525	Rasgrp4	2.90149	Rap2b	2.562509	Samsn1	2.266847
RT1-M4	5.594345	Rtn4rl2	3.581329	Ccl19	2.889413	Rnd1	2.5538	Ccdc102a	2.263929
Ckap2	5.50241	Rcor2	3.57973	Nfkbiz	2.889303	Gabrp	2.551722	Baalc	2.263575
Cacna2d2	5.363767	Fcrls	3.565434	Adora3	2.888162	RGD1308226	2.548609	Drd1a	2.260594
Cfi	5.351354	Alox5	3.565155	Vtcn1	2.887933	Dnm1	2.540308	Art3	2.252937
Olr300	5.314626	Scara5	3.562654	Nptx2	2.874695	Kif23	2.511369	Mcm3	2.252866
Mmp12	5.28525	Cxcl13	3.553129	Iqgap3	2.872704	Cxcr4	2.508893	Znf483	2.251045
Crygs	5.251649	Adra1d	3.549049	Gucy2e	2.871479	Batf	2.502266	Alas2	2.248094
Alox15b	5.251395	Cdca3	3.535106	Ndc80	2.870256	Mmp20	2.500891	Lrat	2.247984
Nuf2	5.250156	Trim50	3.484763	LOC691141	2.865801	Cks2	2.496205	Tgm3	2.24214
Havcr1	5.222698	Traf4af1	3.47302	Il12a	2.847062	Kntc1	2.493051	Pipox	2.23545
Hp	5.19563	Tnnt2	3.447887	Capn13	2.834131	Il7r	2.490853	RT1-Da	2.234107
Epha5	5.115273	Tmem40	3.390573	Cd3g	2.82981	Lrrc33	2.473685	Il18r1	2.23392
Cyp1b1	5.07027	Camkv	3.385512	Cacnb1	2.828575	Folr2	2.467879	Clec12a	2.229886
Nsg2	5.057271	Creb3l3	3.369737	RT1-Ba	2.825522	Trip13	2.453992	Cdc25c	2.224183
Kng2	4.907208	Cdkn1a	3.333154	Vash2	2.82131	Itgb4	2.436567	LOC100158225	2.221755
Cd80	4.886726	Kif2c	3.309761	Cxcl10	2.811954	Cysltr1	2.433561	Ankrd39	2.205462
Slc9a5	4.730785	Adamts4	3.308472	Syt12	2.797952	Gstm1	2.428028	Ebf4	2.194701
Trpv6	4.704221	Abca15	3.308005	Chrnb2	2.795105	Glrx1	2.42737	Fam111a	2.18701
Nepn	4.667734	LOC690352	3.29897	Syt7	2.782046	Clec5a	2.426816	Mcm6	2.185611
Fam46b	4.641355	St8sia4	3.296983	Msr1	2.779346	Lag3	2.422957	Lrrc36	2.184494
Serpina3n	4.51049	Fam101a	3.293025	Casc5	2.779177	Csf1r	2.417278	Lgals3	2.181677
Cass4	4.504281	Dpep2	3.284913	RT1-Bb	2.769831	RGD1562284	2.413622	Igfbp1	2.176853
RGD1563235	4.477809	Rhbdl2	3.276615	Cd300a	2.765351	Fkbp10	2.413152	Arhgap9	2.175871
Spp1	4.46431	Tmem195	3.252187	Top2a	2.739692	Ccdc19	2.410692	Il18bp	2.170236
Pcdh21	4.43749	Lst1	3.243737	Cd53	2.733375	Cd36	2.403465	C1qtnf1	2.168833
Fgg	4.412922	Tlr11	3.234496	Ndrg4	2.723393	Clecsf6	2.401717	Clip3	2.164536
RGD1559482	4.39915	Odz4	3.210104	Lrg1	2.702059	Tifab	2.399378	Birc3	2.16281
Dmc1	4.360309	Angptl3	3.201036	Snx20	2.698769	Tlr5	2.387306	Arl11	2.16279
Pou3f4	4.326839	Gas7	3.183419	Slc10a2	2.69508	Cd37	2.385215	Lox	2.160509
Fcer2	4.27601	Spag5	3.162525	Cps1	2.690816	LOC302022	2.380506	Ciita	2.15129
Fcnb	4.272006	Kng1l1	3.129814	Kcnab2	2.675152	Ptprcap	2.365221	Lrsam1	2.144006
Tekt4	4.214316	Clec7a	3.122328	Dsn1	2.665797	Tubb6	2.360803	Il2rg	2.136408

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Cd44	2.135244	Il7	1.9673	Hmox1	1.835917	Cd226	1.726367	Plekhg2	1.657745
Clec4a3	2.131873	Rasgrp1	1.960304	Ptprc	1.835589	Cxcl11	1.725372	RT1-DOa	1.657146
Mpeg1	2.125235	Ceacam20	1.956036	Fn1	1.833285	Angptl4	1.724958	Trim16	1.656977
RGD1565355	2.123451	Pi16	1.954238	Steap4	1.83305	Rarres2	1.722889	Apobec1	1.656282
LOC360504	2.123048	Retnlg	1.95135	Col16a1	1.824776	Alox5ap	1.722795	Nrp2	1.65589
RGD1560691	2.122307	Myo1f	1.951186	MGC112715	1.823275	Dpysl3	1.719548	Rbm3	1.655504
RT1-Db1	2.114811	C2	1.950883	Endou	1.816576	Entpd3	1.714545	LOC689296	1.653818
Hist1h2ail	2.103091	Fcer1g	1.950674	Nfkbie	1.811271	Pvrl2	1.712927	Rftn1	1.651842
Rad51	2.103075	Irf1	1.950637	Klhl6	1.807667	Pstpip1	1.712575	Elmo1	1.650938
Tmem176a	2.101354	Tacc3	1.945174	Lgals1	1.805487	Cpt1b	1.711129	Scel	1.650549
Pdlim1	2.10053	Tmprss9	1.942297	Btk	1.803632	Dkk2	1.711045	Dapp1	1.648994
Pla2g7	2.099529	Fcgr1a	1.941157	Pole2	1.803525	Fry	1.710212	Tlr1	1.647889
C4-2	2.097423	Gpx2	1.940601	Ccdc69	1.801386	Gpr183	1.708867	Hmgb2	1.647727
C1qtnf6	2.09711	Ucp2	1.937022	Upp1	1.801375	LOC689064	1.704902	Fga	1.647608
Zmynd12	2.093949	RT1-DMa	1.933418	Pde1b	1.798443	Nrm	1.704865	Sema3f	1.647082
Tlr7	2.083125	Apcs	1.931639	Mmp14	1.795759	Aurkc	1.704	Itga5	1.646951
Hba-a2	2.07853	Irf5	1.930369	Abcg1	1.792223	Dusp4	1.703469	Arhgap15	1.646755
Gli1	2.077418	Pla1a	1.92273	Bmp15	1.791843	Prkcb	1.703453	Egln3	1.644901
Brca2	2.076226	Rrm2	1.920958	Car13	1.789183	F5	1.702009	Galnt13	1.643635
Tmem136	2.069644	Gngt2	1.917395	Tmem176b	1.788973	Hmha1	1.700297	Rab27a	1.643477
Hmga1	2.068407	Prim1	1.916778	Mrgprx3	1.785976	Cdkn1c	1.699582	RGD1566112	1.642875
Eif4ebp1	2.058122	Icam1	1.915398	Il20ra	1.785197	Prc1	1.699406	Ch25h	1.642283
Arhgap11a	2.048553	A3galt2	1.913628	Col3a1	1.783378	Cd34	1.697889	Gstm7	1.641028
Hrg	2.044261	Gdap1	1.90957	Ezh2	1.779177	Mctp2	1.697867	Gda	1.637776
Mybl2	2.037574	RGD1309522	1.908619	Slc4a7	1.778675	Phlda3	1.692086	Ncam1	1.636684
Laptm5	2.030418	Des	1.90845	Map4k1	1.773177	Sema7a	1.690478	Tbxas1	1.636151
Synpo2	2.027072	Lipe	1.906147	Trpv5	1.771284	P2ry6	1.689685	Fam113b	1.634026
RGD1562342	2.026142	Lsp1	1.903189	Klrk1	1.770679	Cadm4	1.689613	Dse	1.634014
Paqr8	2.023874	Wisp1	1.901335	Cmklr1	1.769748	Stat4	1.68801	Wdr25l	1.63384
Irf8	2.023345	Fbln1	1.899906	Marcksl1	1.767899	Foxm1	1.687663	Thbs2	1.632565
C3ar1	2.017882	Syn3	1.897936	Dclk1	1.76776	Galr2	1.686574	Smtnl2	1.630869
Nlrp3	2.013887	Cp	1.896473	Rhbdf2	1.76366	Scara3	1.686542	Pcdha9	1.629583
Lypd1	2.01164	Pik3cd	1.894367	Elk3	1.763219	Arpc1b	1.686084	Ttc9	1.629198
Clec4a1	2.011314	C4b	1.893634	Arnt2	1.762078	Adcy7	1.685535	Dkk3	1.628606
Slamf8	2.011141	Ankrd13d	1.891027	Pdpn	1.761789	Epha7	1.684551	Arhgap25	1.628564
Cd4	2.01031	Cd93	1.889594	Col1a1	1.761568	Cpne8	1.68395	Casp4	1.62588
RGD1564927	2.008119	C1s	1.888758	Ap1s2	1.760341	Pla2g4a	1.682904	Calb1	1.625453
Mir126	2.005098	Fam129a	1.888414	Arrb2	1.75729	Sec14l2	1.681699	Racgap1	1.619794
Tpx2	2.004211	Lcp1	1.882417	Hist1h1a	1.756206	Gpr19	1.681599	Sult1a1	1.617431
Gldc	2.00196	Rap2ip	1.881758	Mcoln3	1.7558	Plekhn1	1.681186	Pcdha11	1.617349
Caskin1	1.99585	Donson	1.881259	Ppl	1.755259	Slc25a24	1.680094	Abr	1.616784
Nckap1l	1.995124	Card9	1.87787	MGC105567	1.752713	Apol3	1.676809	Prex1	1.616726
Prr11	1.993787	Pask	1.876323	Gm2a	1.750521	Tmem86b	1.67643	Siva1	1.61562
Sfrp2	1.989911	C4-2	1.875274	Cdca2	1.747768	Ephb3	1.675449	Map3k8	1.614598
Pld4	1.986262	Cspg4	1.875123	Ccr9	1.746451	Plekho1	1.671701	Zfp385a	1.614571
Osmr	1.985496	Apoe	1.863691	Pik3ip1	1.74254	Pcdha1	1.67106	Ifitm1	1.610348
Cd28	1.985469	Ydjc	1.85836	Limd2	1.741804	Timeless	1.670403	Prcp	1.610265
Ctrl	1.982219	Vim	1.855717	Mt1a	1.740687	Ccnb1	1.670153	Sass6	1.610225
Sash3	1.981442	Tmem146	1.853712	Antxr1	1.739303	Rxrg	1.66971	Il1rl1	1.609161
Evi2a	1.980235	Fam105a	1.851741	Endog	1.739156	Steap1	1.669518	Pappa	1.608332
Polq	1.979706	Hist1h1b	1.848688	Txnrd3	1.737741	Pcdhac1	1.666372	Rin1	1.606986
Sla	1.978304	Wdr62	1.845476	Ednra	1.735749	Hebp2	1.664123	Slc37a2	1.606151
RGD1564776	1.974118	Olfm1	1.844057	Tiam1	1.735736	Il6r	1.66381	Aldh1a2	1.605946
Klra2	1.973578	Syk	1.842566	Nap1l5	1.732964	Ugcg	1.661306	Tmem20	1.605931
LOC688090	1.9733	Pik3r5	1.842274	Map1a	1.732548	Thsd1	1.660682	Scin	1.605343
Cenpf	1.969306	Vav1	1.841498	Cnp	1.730575	Isg20	1.659286	Fetub	1.605306
Cd276	1.967847	Slc10a1	1.839857	RGD1566001	1.72652	Dcdc2	1.658793	Dom3z	1.605291

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
MGC108823	1.604596	Lpin2	1.551719	Nid67	1.502653	Ankrd6	1.463418	Sat1	1.421998
Slc6a9	1.603522	Adamts7	1.551126	C1r	1.502631	Myct1	1.462506	Olfml3	1.421394
Axl	1.600965	Cyp2e1	1.548805	Klf6	1.501726	Nlrp1a	1.46197	Tank	1.421354
Sirpa	1.599843	Pcdhb20	1.546328	Gmpr	1.50164	RGD1312026	1.459831	Tgif1	1.420541
Pcdhac2	1.596669	Pcdha7	1.546098	Slc8a1	1.501181	Ptk7	1.459791	Plscr3	1.419919
Pcdha2	1.595099	Pid1	1.545734	Sv2a	1.500699	Fblim1	1.459498	Gls	1.419112
Sh2d3c	1.593717	Bmp1	1.544271	Chsy1	1.500576	Kcnma1	1.45873	Pcdha4	1.417512
S100a11	1.593604	Ksr1	1.540606	Snn	1.500082	Odz3	1.458612	Heyl	1.416928
Mirlet7b	1.592844	Rab8b	1.537645	Map1b	1.499763	Btg1	1.457099	Ttc39b	1.415568
Nrarp	1.592619	Gabra1	1.537633	Cpz	1.49821	Nckipsd	1.456478	Hexdc	1.414615
Pcdha10	1.591173	Foxp1	1.536864	Zfp358	1.496745	Wdhd1	1.455963	Gusb	1.413588
Sema4c	1.590767	Pde4b	1.534951	Ddx59	1.496393	Homer3	1.455367	Ccl28	1.412979
Irak3	1.589304	Osbpl7	1.534472	Brpf3	1.495897	Runx2	1.454508	Slc44a2	1.412962
Galns	1.588943	Hhex	1.53407	Mcam	1.495173	Notch3	1.454257	Zfp57	1.412727
Apln	1.586827	Ttk	1.531052	Trpm3	1.493372	Pde10a	1.453908	St6galnac2	1.412471
Olfml2b	1.586398	Sparc	1.530907	Nme4	1.492514	Camk2d	1.453622	Lrrc32	1.412126
Gab2	1.585205	Csf1	1.529536	Zc3h6	1.492436	Cxcl16	1.452723	Cd1d1	1.411566
Ptp4a3	1.585193	Dock11	1.5285	Rbp1	1.490053	Mobkl2a	1.451509	Sh3kbp1	1.411277
Ifngr2	1.583456	Ssfa2	1.528284	Ticam2	1.489923	Synpo	1.450835	Hspa12b	1.410346
Septin6	1.579413	Calr3	1.528283	Slc43a3	1.489571	Geft	1.449617	Slc1a5	1.41033
Acer2	1.579323	Slc25a22	1.527626	Cyp4a8	1.489259	LOC500684	1.448662	St6galnac2	1.409998
Pcdha6	1.578676	Pddc1	1.527462	Pcdha12	1.488486	Prickle2	1.447211	Lrrc32	1.40989
Ifitm3	1.578062	Elf3	1.52709	Il17rc	1.488126	Mdm1	1.446944	Cd1d1	1.409735
Aacs	1.57711	Pik3ap1	1.525347	Lpxn	1.487598	Flot2	1.445897	Sh3kbp1	1.407299
Mpp2	1.57525	RGD1563888	1.524064	Mir761	1.487041	Ccng1	1.442654	Hspa12b	1.407147
Cmtm3	1.575054	Aph1b	1.523489	Inpp5d	1.486822	Lrch1	1.442282	Slc1a5	1.406956
Mybpc2	1.574584	Apaf1	1.521828	Mt2A	1.486261	S1pr2	1.442273	Ankrd44	1.409998
Pcdha5	1.574362	Fchsd1	1.519913	Plk2	1.486108	Foxk1	1.440712	Arhgap4	1.40989
Lbp	1.573847	Prkg1	1.519824	Vdr	1.479352	Tubb5	1.439898	Rbl1	1.409735
Mtmr7	1.573649	Nek11	1.519253	Sec14l1	1.478696	Ppap2a	1.437451	Rab31	1.407299
RGD1311946	1.572324	Ets1	1.519213	Col5a2	1.477228	Fyb	1.436601	Stxbp1	1.407147
Pcdha8	1.567258	Adamts15	1.516503	Fhl2	1.477035	Nos3	1.434777	Lmbr1l	1.406956
Kif3c	1.566336	Abcb10	1.516138	Serpini1	1.47554	Fam102b	1.434356	Cep97	1.406434
Pcdha3	1.565623	Tes	1.515564	Rbpj	1.475524	Tmem229a	1.433576	Mttp	1.405936
Tnfrsf1a	1.562655	Ly86	1.515155	Phf13	1.47506	Esyt1	1.433403	Akna	1.40401
Lgals3bp	1.562216	Cdc25b	1.514272	RT1-N1	1.474802	Adck5	1.43321	Dram	1.403577
Bicd1	1.559872	Bmp6	1.514014	P2ry14	1.474341	Kirrel	1.431929	Ssh2	1.402932
Anxa3	1.558164	Fbn1	1.513666	Heph	1.474252	Csgalnact1	1.431821	Nufip1	1.402177
Nes	1.55806	RGD1309543	1.51269	RGD1305939	1.47392	Xdh	1.431494		
Inpp4a	1.5573	Olr59	1.512146	Adcy4	1.473674	Arpc1b	1.431196		
Pla2r1	1.556973	Ctsd	1.511509	Nod1	1.472826	RGD1309829	1.430237		
Praf2	1.556366	Dynlt1	1.511262	Abi3	1.472815	Arhgef2	1.430068		
RT1-DMb	1.556361	Cyth4	1.510807	Ranbp17	1.472321	Plp2	1.427761		
Ier3	1.556242	Ctsl1	1.510716	RGD1305455	1.470449	Plce1	1.426062		
Bard1	1.555675	Neurl2	1.510091	Zbed3	1.46981	RGD1559896	1.425055		
Tgfb1	1.555474	Rhog	1.509143	Palb2	1.469114	Gcnt2	1.425018		
Jak3	1.55488	Zfp385b	1.508747	Rgma	1.468463	Pcdha13	1.424698		
Bex2	1.554049	Abhd4	1.508034	Rasgrf2	1.467461	Lmf2	1.424212		
Rem2	1.553863	RT1-N2	1.505094	Crispld1	1.466218	Tbc1d10c	1.423763		
Pmf1	1.552746	Cirbp	1.503479	Cd40	1.464801	Stk10	1.422904		
Cldn17	1.551814	Cd97	1.503264	Gatsl2	1.464038	F2r	1.422692		

SIGNIFICANTLY DOWNREGULATED IN DS (VS LS) (TO LESS THAN 0.6 FOLD)

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Kcnk16	0	Slc35f1	0.243322	Cyp4a3	0.377089	Tnfrsf11b	0.444303	RGD1309228	0.499384
Dscaml1	0	Cldn6	0.243948	Wfdc1	0.378405	Cyp2d2	0.445728	Pou3f1	0.50059
Cyp8b1	0.010404	Slit1	0.244026	Fam189b	0.379207	Ccrn4l	0.448763	Slc1a4	0.501043
Serpinb12	0.032785	Slc7a13	0.244506	Cyp2d1	0.380777	Tex15	0.44949	Trank1	0.501446
Olr1326	0.043199	Tm4sf20	0.248756	Reep1	0.385661	RGD1560271	0.452351	Gcgr	0.501451
LOC361914	0.043873	Hnmt	0.249722	Gcm1	0.387992	Cpxm2	0.452669	Pamr1	0.501574
Rt1.aa	0.056014	Cacna1h	0.25326	Aspg	0.389406	RT1-T24-3	0.452909	Hspa8	0.502128
Slc7a12	0.057054	Klrc2	0.253261	RGD1310324	0.39055	LOC500124	0.459669	Rxfp2	0.503857
Wisp3	0.057839	Ky	0.254511	Bst2	0.390827	Bai1	0.460784	Ccdc68	0.504483
RT1-EC2	0.058369	Ppfia4	0.263639	Prlr	0.392659	Lactb2	0.46087	Galnt14	0.505198
Anxa13	0.058496	Cyp2d3	0.269578	Anpep	0.392937	Cilp	0.461958	Dio1	0.506002
Cftr	0.064463	RGD1565166	0.271257	Akr1c12l1	0.393318	Enpp3	0.462017	Ppp1r1b	0.506147
Olr1331	0.082209	Mrap	0.275683	Hist1h2an	0.394406	Mir107	0.462826	Scn1b	0.507495
Hsd3b6	0.084442	Ppic	0.280371	Ugt2b37	0.394474	Ptprq	0.465102	Slc25a30	0.507904
LOC680734	0.087826	Ifit1	0.280461	Coch	0.395368	Slc3a1	0.465282	Dleu7	0.50843
Aldh1b1	0.089869	Gpr63	0.281793	RGD1564937	0.395886	RGD1304644	0.466806	Jag1	0.509667
Cyp2c11	0.097067	Kcna5	0.282584	Iqch	0.396256	LOC367975	0.467174	Odc1	0.510193
Nalcn	0.098954	Fam25a	0.286978	Ggct	0.397914	Ntrk1	0.468433	Lcn2	0.510523
Ly49i5	0.100577	Nhlh2	0.287366	Ggct	0.397968	Ces4a	0.4685	Tmprss8	0.512059
Frmd3	0.105197	Snap91	0.290012	Gucy1b2	0.398151	Fhit	0.469133	Apom	0.514332
Slco1a1	0.109584	RT1-M6-2	0.290546	RGD1564865	0.398586	Mcoln2	0.469191	Tmod4	0.514761
Atp1a4	0.116811	Tnmd	0.292486	Hsph1	0.401467	Piwil2	0.470122	Oat	0.515205
Defb42	0.122531	RGD1564894	0.301254	Rwdd2a	0.402891	Mogat2	0.470512	P4ha1	0.518204
Gapdh-ps1	0.127648	Afm	0.301703	Sox12	0.403542	Nat8b	0.471021	Ihh	0.51821
Snca	0.127808	Cyp2d5	0.30224	Cml2	0.406242	Phf19	0.472045	Clrn3	0.519422
Chrna7	0.130154	Mapk10	0.307092	Irx3	0.406604	Slc22a2	0.472593	Tmem14a	0.519749
Slc22a13	0.131375	Areg	0.30963	Basp1	0.406964	Proc	0.473054	Igfbp4	0.519811
Sptlc3	0.136495	Cacng5	0.310683	Akr1c13	0.407283	Fam43a	0.473919	Dnaja4	0.519824
Cabp7	0.156491	Sds	0.311274	Hsp90aa1	0.407683	Mirlet7d	0.474471	Mlc1	0.52235
Acox2	0.159295	Dhrs7	0.311925	Samd5	0.408239	RT1-A1	0.474926	Prom1	0.523849
RGD1563714	0.160977	Gdf10	0.31221	LOC360919	0.408629	Klk1	0.475331	Tmlhe	0.524682
Gjd2	0.163225	Asrgl1	0.316743	Me1	0.410357	Prrt1	0.475794	Slc23a1	0.525061
Slc22a7	0.166739	Kap	0.323999	Grpr	0.410611	Cyp2d4	0.478395	Gclm	0.525459
Gc	0.167269	Ldhd	0.324365	Clec2l	0.415345	Trpc5	0.479436	Pld1	0.525998
Hormad2	0.171534	Cryab	0.325902	Akr1c12	0.415525	Cdo1	0.479703	Dnaja1	0.526188
Klk1b21	0.179584	Hist1h2ba	0.328046	Klk1l	0.41657	Exd1	0.479799	UST4r	0.527894
Hrasls	0.184919	Hsd17b1	0.335184	Pecr	0.419894	Hao2	0.481522	Abcb1a	0.527909
Wnt2b	0.188246	Chrna2	0.339105	Cpvl	0.423932	Chit1	0.483497	Klk1c10	0.529346
Tal2	0.191181	Casq1	0.340394	LOC56764	0.424619	Elfn1	0.486077	Hist2h4	0.529525
LOC100359649	0.192266	Nefh	0.34143	Alpk3	0.424885	Lipg	0.487952	Rnls	0.530285
Gtpbp4	0.196668	Dio2	0.341454	Gclc	0.428948	RT1-A3	0.488751	Ghr	0.532489
RGD1562658	0.202351	Cdh7	0.350776	Gng13	0.429074	Upp2	0.488835	Ust5r	0.533726
Rgn	0.204247	Slco1a5	0.352573	Melk	0.429751	Klk1b3	0.489079	Csad	0.534318
Foxn4	0.214762	Cyp4a2	0.355897	Nefm	0.429831	Fmo3	0.491528	Umod	0.535229
Derl3	0.21785	A2bp1	0.359351	RGD1561849	0.430215	Lrrn1	0.491639	Serpinf2	0.535872
Tff3	0.222108	Cldn9	0.360418	RGD1304605	0.432254	Mat2a	0.492334	LOC494499	0.536032
Gabrb1	0.224507	RGD1562673	0.362098	Prep	0.432466	Sult2a1	0.492609	Rdh7	0.53643
Mir326	0.224507	Slc16a4	0.365359	St8sia1	0.432605	Hpse2	0.493905	Slc22a12	0.536675
RGD1304731	0.225856	Hspb1	0.366383	Slc22a9	0.436825	Trim69	0.494572	Fam86a	0.543746
Akr1b8	0.229812	Ccdc114	0.371464	Afaf	0.438146	Ace2	0.49509	N6amt1	0.543963
Prph	0.230468	Mir872	0.371559	Col17a1	0.441611	Khdrbs3	0.49621	Slc15a2	0.544272
Akr1c14	0.236659	Gpat2	0.371716	Asgr1	0.442502	Egf	0.496439	Hspa5	0.545018
Col9a1	0.236774	Reep6	0.372838	Ggh	0.443166	RT1-S2	0.497965	Apoh	0.545066
Usp29	0.243063	Cyp4a2	0.375867	Osgin1	0.444057	Slco1a6	0.498727	Hagh	0.547197

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
RT1-Db2	0.547457	LOC501038	0.559285	Id4	0.570942	Nlrp6	0.58049	Agmat	0.592284
Cyp2j3	0.547619	Mybl1	0.560403	Abca4	0.571177	Nat8	0.582208	Stom	0.593091
Stip1	0.548452	Aimp2	0.560775	Creld2	0.571239	Gss	0.584111	Fam188a	0.593389
F13b	0.548554	Slc5a9	0.563327	Slco4c1	0.572883	Mbl1	0.584844	Mpdz	0.593962
Cml1	0.548716	Pip5k1b	0.563984	LOC685046	0.575121	Acpp	0.585908	Slc39a8	0.594176
Zfp93	0.554007	Clk2	0.564566	Pklr	0.577369	Tnxa	0.586243	Fahd1	0.595348
Slc21a4	0.554478	Cyp2j4	0.565243	Car5b	0.577893	Smtn	0.58778	Cycs	0.595941
Akr7a3	0.555053	LOC690349	0.568184	LOC498662	0.5789	LOC366431	0.587976	Serpinh1	0.597286
Dpp6	0.555151	Pgm3	0.56825	Chordc1	0.579063	Fez2	0.588076	Iyd	0.59847
Efna5	0.558943	Cyp2s1	0.569327	Gsg1	0.579163	Snx7	0.590933		
Hsp90ab1	0.559111	Gstt1	0.570776	Slc23a3	0.579267	Tyw1	0.592242		

SIGNIFICANTLY UPREGULATED IN DI VS DS MORE THAN 1.4 FOLD

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Reg3b	14.00783	Pcdhb2	2.76513	Ms4a14	2.230637	Cldn4	1.94061	Ccnjl	1.77404
Muc15	9.134586	Inhba	2.722993	Dcaf12l1	2.227596	Fanca	1.916633	Tgfb2	1.76416
Gsdmc	7.173087	Rprm	2.70625	Tpbg	2.221717	RGD1308165	1.915541	RGD1563666	1.758316
Mia	5.970006	Olr1584	2.69936	LOC56764	2.220345	Flnc	1.89806	Arhgap20	1.747754
Aqp5	5.970006	Asf1b	2.692153	Duoxa1	2.214169	Syt9	1.896493	C1qtnf5	1.745433
Arntl2	5.924969	P2ry12	2.662157	Col3a1	2.212086	Hcrtr1	1.894965	Adcy7	1.744318
RGD1306230	5.404514	Clspn	2.652355	Vwa5b2	2.210533	Ccdc68	1.88856	Fbn1	1.742959
RGD1310376	5.213922	Col1a1	2.557509	Ccna2	2.207597	Olr1	1.886409	Slc25a24	1.742165
Mcpt8	4.90796	Ska3	2.547626	Fcrls	2.205446	Cd44	1.885988	Marcksl1	1.739775
Atg9b	4.897775	Serpina10	2.528346	Reep1	2.198309	Pik3r5	1.885687	Gpr63	1.73263
Msc	4.471258	Mir423	2.52658	Ubd	2.197356	Smoc2	1.88554	Sdk2	1.730718
Il24	4.374881	C4bpb	2.502385	Lrat	2.196456	Cd276	1.881265	Ccdc69	1.729565
Dok6	4.069499	Mcpt8l2	2.501401	Asam	2.193396	Gabrp	1.866887	Col8a1	1.727552
Chrna7	3.973508	RGD1565734pred	2.473425	Tmem119	2.178935	Kcnip3	1.855081	Cdk1	1.725816
Aurkb	3.948361	Gins1	2.468704	Irf4	2.162978	Gja1	1.850082	Adora2b	1.725196
RGD1564114	3.943595	Cdc42ep5	2.467112	Ctnna2	2.156079	Il17re	1.841887	Slc25a27	1.723465
Dsg3	3.813897	Shisa4	2.450483	Shc2	2.135523	Abcb1b	1.840812	C2	1.721383
RGD1561145	3.799894	Hist1h1b	2.447469	Tmsb10	2.128491	Loxl2	1.834631	Ces1a	1.720394
Mmp16	3.795097	Sult1c3	2.432194	Raet1l	2.112149	Sc65	1.832019	LOC100188933	1.719583
Cd40lg	3.683392	Epdr1	2.415408	Ubash3a	2.112093	Car13	1.830343	Dclk1	1.711389
Scgb3a2	3.682673	Scn5a	2.414483	RGD1309077	2.100547	Bub1	1.828488	Snai1	1.709349
Bcmo1	3.612729	Hrasls	2.411296	Trim36	2.05927	Nr5a2	1.823283	S100a10	1.698088
Ramp1	3.573622	Adcy2	2.407514	Tekt1	2.039246	Syn1	1.822864	Loxl1	1.697911
Tram1l1	3.461197	Batf	2.402187	Cdkn2b	2.02399	Ltbp2	1.822256	Col5a2	1.69574
Trim69	3.260195	Tppp3	2.384561	Mmp2	2.021196	C1qtnf6	1.820313	Gna15	1.690544
Hist1h2an	3.25425	Nrm	2.360603	Prtfdc1	2.013701	Col1a2	1.819516	Mex3b	1.690034
Prr16	3.194748	Ppp2r2c	2.353346	Hpgd	2.00805	Adcyap1r1	1.818935	Hist1h2bn	1.685763
Acoxl	3.170323	Odz4	2.335303	Sctr	2.003887	Rtn2	1.817025	Tbxas1	1.685654
Serinc4	3.139574	Mybl2	2.316069	Clec10a	1.99748	Serpine2	1.816244	Dpysl3	1.685086
Cthrc1	3.122919	Cacna1h	2.302301	LOC500413	1.991497	Parvg	1.815613	Opn3	1.680435
Capns2	3.118799	Cdca7	2.300534	Rtkn2	1.97763	Syt5	1.807853	Cd6	1.676271
Scn9a	3.108581	Plxdc1	2.295906	Dsc2	1.969156	Baalc	1.8061	Aldh18a1	1.671839
Tbx21	3.018548	Mfap4	2.286849	Cfi	1.965527	Pcdhb10	1.797933	Vim	1.670117
Mdga1	2.929776	Adamts2	2.273729	Mycn	1.95539	Fignl1	1.792444	Psmb8	1.665815
Rhbdl2	2.855112	Ptprz1	2.263465	Osm	1.952256	Fn1	1.785888	Anxa2	1.664904
Chac1	2.851985	Fam70b	2.237076	Olfm4	1.951222	MGC116202	1.778191	Casp4	1.66397

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Adamts7	1.662178	Selplg	1.585338	Pstpip1	1.525835	Rgs19	1.48354	Mrpl23	1.427401
Ccdc114	1.659701	Tmem40	1.585286	Tax1bp3	1.524234	Hist2h4	1.48088	Ebpl	1.423504
Anxa1	1.656805	Mical2	1.579016	Tmsb4x	1.524195	Anxa7	1.480398	Vegfc	1.421563
Casc5	1.656649	Adamts5	1.578793	E2f1	1.522694	Rpp21	1.478815	Prkar2b	1.42065
Ccdc80	1.650906	Ier5	1.576163	Slc46a1	1.521943	Ddx41	1.477254	Mrc2	1.417676
RGD1563982	1.650338	LOC679651	1.575639	Cdh11	1.521578	Emp3	1.475791	Apol3	1.41622
Cnrip1	1.649052	Lrfn4	1.573548	Igfbp6	1.520344	Ano1	1.472436	Chst14	1.415052
Trerf1	1.647657	Hsd3b7	1.572269	Grem1	1.519722	Tapbpl	1.467191	LOC683626	1.414856
RGD1560455	1.646697	Efemp2	1.569197	Cacnb3	1.51914	LOC685171	1.461207	Ng35	1.413942
Pcdh18	1.644343	Rcn1	1.56588	Ptprs	1.515544	Sorcs2	1.459804	Cald1	1.411021
Fam111a	1.641278	Tsga14	1.558706	Fat3	1.514652	Tap2	1.458679	Efna1	1.410172
Adamts12	1.63828	Rad54b	1.558701	Tnfrsf1b	1.513113	Hells	1.456797	Unc119	1.406632
Pqlc3	1.634499	Tmem176a	1.556822	Srxn1	1.513102	Lgals3bp	1.456445	Nxn	1.405513
LOC310926	1.633918	Il1rl1	1.556122	Gata6	1.512781	Pdlim7	1.454491	Cdh6	1.402727
Gli3	1.628737	Slc10a2	1.549806	Dlgap5	1.511469	Myof	1.452823	Tmtc2	1.402689
Reep6	1.625867	Anxa5	1.547702	Adamts15	1.509159	Slc7a2	1.452606	Prcp	1.402361
Gmnn	1.624924	Arl11	1.547425	Trip13	1.508598	Fam131b	1.451913	Slc9a7	1.401513
Gpr153	1.624459	Mir3542	1.544849	Cacna2d1	1.506565	Tpst1	1.45058	Clic1	1.401101
Fhl3	1.621999	Trim66	1.542378	Mobkl2a	1.506487	Nid67	1.449504	Pcgf1	1.400841
Il7	1.621644	Arpp21	1.540465	Ccr5	1.505142	RGD1311892	1.447021	Fut4	1.400541
Cnp	1.621635	Fxyd5	1.539921	Nelf	1.501989	Colec12	1.445297		
Col5a1	1.612684	Tes	1.535461	Adora1	1.50185	Arpc1b	1.445051		
Cxadr	1.611973	Nipsnap3b	1.535424	Bmp1	1.501799	Srd5a3	1.444652		
Lgals3	1.611854	Septin 6	1.534148	Cfh	1.49886	Itpr3	1.438687		
Col4a1	1.610927	Lhfpl2	1.533116	C1qc	1.496872	Pld4	1.435377		
Plekha4	1.603267	Msr1	1.531874	Paqr4	1.496768	Emd	1.435153		
Clec11a	1.601878	Mcm3	1.527342	Arrdc4	1.496605	Itga1	1.43469		
Col6a3	1.59613	LOC361346	1.526685	Adam23	1.496166	Fermt1	1.428496		
Col6a2	1.590044	Tagln2	1.52589	Gucy1a3	1.492998	Bag2	1.428415		

SIGNIFICANTLY DOWNREGULATED IN DI vs DS (TO LESS THAN 0.6 FOLD)

gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change	gene	Fold change
Stmn3	0	RGD1563263	0.342099	Akr1c1	0.492078	Agbl4	0.545162	Kcnn3	0.576536
Gpr120	0	Trim63	0.367334	Corin	0.494563	Ddc	0.545311	LOC499279	0.580142
Ntsr1	0.069454	Pla2g10	0.367581	Akr1c18	0.50909	Azgp1	0.545722	Pde1b	0.580414
Vom2r49	0.081319	Bmp15	0.385802	LOC360504	0.515948	Gcgr	0.550556	Gjb2	0.582848
RGD1562492	0.081938	Acot12	0.393951	Gsta5	0.516173	Olr63	0.550627	B3galt2	0.583321
Cpa4	0.156248	Drd1a	0.40247	Slc2a4	0.51904	Ddo	0.551026	Exd1	0.58351
Rpe65	0.166497	Cntnap4	0.408821	LOC684993	0.520745	Cct6b	0.551806	Adcy1	0.583652
Ppef2	0.181164	Gltpd2	0.414217	Prkg2	0.52469	Tmem86b	0.55282	Spink1	0.587419
Cuzd1	0.185558	Osap	0.4299	Il20ra	0.527093	Mttp	0.554073	RGD1565316	0.588653
Pex5l	0.212748	Mx2	0.431908	RGD1304731	0.527628	Sult5a1	0.554492	Mir336	0.589653
Fibcd1	0.217445	Cntn2	0.444103	Hba-a2	0.527895	Btn1a1	0.554584	Smoc1	0.589884
Ptpn5	0.222902	Rbp4	0.447974	Mir761	0.528565	Aurkc	0.5549	Sema5b	0.591719
Mir20a	0.227925	Scg2	0.4508	Zmynd12	0.529457	Dio1	0.56039	Akr1b10	0.59195
LOC690352	0.259562	Hrg	0.455497	Ugt2b36	0.530882	Cd28	0.561755	Ralyl	0.593328
Matn1	0.282244	Tmem88b	0.47185	Ihh	0.532521	Entpd8	0.561926	Slc6a4	0.594376
Rgs7bp	0.28409	Gsta3	0.473993	Egf	0.533075	Abhd14a	0.566488	Isg15	0.595985
Mylpf	0.29371	Tlr12	0.485295	Shbg	0.540888	Adra1a	0.571457		
Gnat1	0.319993	Nptx1	0.48617	Stc1	0.542808	Spp2	0.572033		
Chrne	0.327442	Dusp15	0.487032	Park2	0.544502	Abca17	0.575419		