

Gene Symb	Log2 Fold Change (IM)	p Value	FDR Adj p Value
Xist	-7.574360492	0	0
Ddx3y	4.253124008	1.62E-259	1.04E-255
Eif2a3y	3.815458268	2.29E-200	9.75E-197
Uty	3.429534169	6.68E-156	2.14E-152
Kdm5d	3.338083453	3.84E-146	9.83E-143
Trpm2	-0.995415743	1.56E-16	3.32E-13
Alox15	-1.049752065	4.00E-15	7.45E-12
Chil33	0.762948796	8.02E-12	1.28E-08
Kdm6a	-0.558141649	4.89E-12	1.35E-08
Akr1c18	0.736354035	3.44E-08	4.39E-05
Tubb1	0.730914144	3.92E-08	4.56E-05
Xdh	0.698973833	4.47E-08	4.76E-05
Bassf4	-0.532312246	6.27E-08	6.16E-05
Ctss	-0.597846663	1.65E-07	0.0001504
Nlrc4	0.690676849	1.79E-07	0.0001521
Axl	-0.621200372	3.57E-07	0.0002851
Alox12	0.664188637	5.77E-07	0.0004337
Kdm5c	-0.340427039	8.15E-07	0.0005784
Eif2s3k	-0.59501691	1.21E-06	0.0008117
Ct3	0.467265176	1.89E-06	0.0012026
Srgn	0.499409272	2.78E-06	0.0016901
H60b	0.552393767	3.23E-06	0.0018774
My10	-0.5844118	3.93E-06	0.002186
Rapgef5	-0.612948685	4.53E-06	0.0024122
Hist1h2bg	0.486113135	6.19E-06	0.0031591
Csf1r	-0.473266008	6.43E-06	0.0031591
Vim	-0.328985846	6.73E-06	0.0031832
Gbp3	-0.534231033	7.52E-06	0.0034329
Naip5	-0.533875158	1.26E-05	0.0055647
Pisd-ps1	-0.339066905	1.85E-05	0.0078638
Sh3pdx2b	-0.534460591	2.06E-05	0.0083791
Mrv1	0.524920294	2.12E-05	0.0083791
Slc17a8	-0.443587237	2.17E-05	0.0083791
Fos	-0.464111213	2.23E-05	0.0083791
Mdga1	0.53680435	2.40E-05	0.0087584
Tgm2	0.344756525	2.92E-05	0.0103622
S100a6	-0.516549962	3.63E-05	0.0125496
Apbb1	-0.55018075	3.86E-05	0.0129813
Cln3	-0.455530728	4.48E-05	0.0146785
Cops2	0.357214716	5.57E-05	0.0177871
Gpnmb	-0.51140194	5.82E-05	0.0181497
Sox6	-0.531926399	6.91E-05	0.0210163
Hist1h2ac	0.455577474	7.55E-05	0.0224365
Irf2	-0.400225762	9.72E-05	0.0281399
Cpa3	0.519672654	0.0001012	0.0281399
1600029D2	-0.509127513	0.0001013	0.0281399
Cd300lf	-0.514044514	0.0001046	0.0284372
Rasgrp4	-0.48799087	0.0001205	0.0320755
Klhl24	0.383193146	0.0001266	0.0330176
Sla	0.335142817	0.0001435	0.0366671
Ctsh	-0.493092662	0.0001517	0.0374083
Tbcl1d9	-0.491513314	0.0001548	0.0374083
Fmn1	-0.316990502	0.0001552	0.0374083
Hist1h1d	0.289137359	0.0001585	0.0375116
Diras2	0.497998829	0.0001673	0.0388656
Akna	-0.308374248	0.0002098	0.0478729
Trp53bp2	-0.445140672	0.0002191	0.0491116
Zfp36	-0.361833966	0.0002335	0.0514468
Gng12	0.289702162	0.0002419	0.0519635
Emr1	-0.456919654	0.000244	0.0519635
Evc2	-0.436062952	0.0002521	0.0528047
Camk1d	-0.479699426	0.0002753	0.0559588
Tmed3	0.426390018	0.0002759	0.0559588
Serpinb2	-0.479656421	0.0002821	0.0563136
Cd226	0.4847460752	0.0002874	0.0565066
Slc6a4	0.474458181	0.0003016	0.0578489
S100a4	-0.414217067	0.0003033	0.0578489
Hprt	0.29462786	0.0003081	0.0578989
Rpl39	0.281249274	0.0003154	0.0584125
Qrx1	1.695215767	0.0003468	0.0299844
Emilin2	-0.256144966	0.0003868	0.0706051
Ankrd33b	-0.462778467	0.0004364	0.075382
Prkcc	-0.407502059	0.0004465	0.0788898
Mid1	-0.439836152	0.0004507	0.0788898
Ifi30	-0.37896218	0.0004754	0.0815126
Nedd4	0.228612019	0.0004824	0.0815126
Xlrlac	0.316650956	0.000486	0.0815126
Cst17	0.455905769	0.0004912	0.0815126
Calr	0.258933426	0.0005001	0.0819342
Pgr	-0.453477466	0.0005117	0.082769
Cpne8	-0.43755863	0.0005185	0.0828154
My19	0.278182554	0.0005331	0.0841028
Coro2a	-0.298314471	0.0005448	0.0848954
Zdhhc20	0.354422033	0.0005585	0.0858487
Mpeg1	-0.443901381	0.0005756	0.0863593
Sh3pdx2a	-0.446210464	0.0005784	0.0863593
Slc7a2	-0.345530491	0.0005812	0.0863593
Kmp	-0.445973577	0.0005952	0.0874108
Mmo8	-0.453847101	0.0006063	0.0880101
Rxra	-0.458034701	0.000613	0.0880101
Capra2	0.263669775	0.0006674	0.0937302
Hs3st3b1	-0.452579625	0.0006675	0.0937302
Inpp5b	-0.421247987	0.0007122	0.0989121
4930506M6	-0.451853824	0.0007241	0.0993086
Dmahc8	-0.355542874	0.0007368	0.0993086
Pgf	-0.424829582	0.0007383	0.0993086
Ifngr1	0.36247461	0.0007632	0.1015867
Pdia6	0.255853525	0.0008007	0.1040328
Clec4d	-0.444802083	0.0008095	0.1040328
Cnn2	0.356831422	0.0008171	0.1040328
Psap	-0.252774233	0.0008196	0.1040328
Tkt	0.226814952	0.0008223	0.1040328
Plac8	0.352086881	0.0008585	0.1075534
Il1r1	0.407306752	0.0008694	0.1078502

Gene Symb	Log2 Fold C	p Value	FDR Adj p Value
Aldoa	0.2210334	0.0009032	0.1105962
Lma	-0.372539	0.0009231	0.1123312
Egr1	-0.309635	0.0009236	0.112418
Sfn1	-0.323772	0.0009623	0.1149145
Pla2g7	-0.324891	0.0009965	0.1179026
H2-Dmb2	-0.423371	0.0010061	0.1179395
Atf3	-0.436377	0.0010197	0.1184475
Sdcbp	0.2867076	0.0010973	0.1262319
Tspan9	0.4339859	0.0011115	0.1268084
Clec1b	0.4259164	0.0011273	0.1274769
3110003A1	0.356728	0.0011405	0.1278079
Itm2b	0.2671691	0.0011503	0.1278079
Gmfb	0.2798972	0.0012126	0.1335769
Hist1h1e	0.204565	0.0012308	0.1344194
Tnfrap8	0.2777588	0.0012914	0.1398466
Frmf7	0.4282575	0.0013053	0.1401586
Ppp1cb	0.2846758	0.0013208	0.1404392
H2-Dmb1	-0.390997	0.0013347	0.1404392
Ppbb	0.4285295	0.0013409	0.1404392
Ahr	-0.428149	0.0013632	0.1416136
Rod1	0.2708509	0.001415	0.1455067
Klf6	-0.300022	0.0014234	0.1455067
Dock4	-0.391619	0.0014765	0.1497338
Fdps	0.35731	0.0014639	0.1654008
Lamp2	0.2862566	0.0016796	0.1666426
Vldlr	-0.402892	0.0016893	0.1666426
Plmb2	-0.336789	0.0016954	0.1666426
Atgfv0a1	-0.29061	0.0017302	0.1681923
Gprc5c	-0.415297	0.0017375	0.1681923
Web	0.4049426	0.0017523	0.1683484
Creb5	-0.397663	0.0017826	0.169988
Tmtc1	-0.276803	0.0018712	0.1762566
6720401G1	-0.374034	0.001876	0.1762566
Cpne3	0.3289383	0.0019057	0.176875
Dusp1	-0.408592	0.0019161	0.176875
Chdh	0.3904562	0.0019241	0.176875
Tram1	0.2398215	0.0019948	0.1820687
Myo1g	-0.291097	0.0020248	0.1825919
Ext1	-0.356294	0.0020291	0.1825919
Med21	0.4118162	0.0020675	0.1847451
Gyg	0.3590078	0.0020905	0.1852563
Lgm	-0.411175	0.0021022	0.1852563
Car12	-0.390831	0.0021388	0.1871876
Selp	-0.371345	0.0021542	0.1872584
Gpr128	-0.361916	0.0022642	0.1954604
Kdm6b	-0.316602	0.0022792	0.1954604
Sfn	0.2390273	0.0023652	0.2014829
Irf5	-0.378889	0.0023843	0.2017682
Yme1l1	0.2258405	0.002456	0.2064635
Lair1	0.3877626	0.0025234	0.2105645
Abcc1	0.1975837	0.0025377	0.2105645
Rnf2	-0.515313	0.0026017	0.2144831
Scd2	0.2792165	0.0026316	0.2155583
Fos2	-0.357404	0.0027083	0.2204228
Fam55b	-0.391379	0.0027782	0.2235951
Lars2	0.2053575	0.0028028	0.2235951
Tspan2	0.3970698	0.0028163	0.2235951
Itrp3	-0.284087	0.0028617	0.2235951
9430076C1	-0.366312	0.0028608	0.225652
Skp1a	0.2464775	0.0029691	0.231829
Ogfr1	0.2881351	0.0029754	0.231829
Msr1	-0.362202	0.0031786	0.2461548
Atp2b4	-0.24483	0.0032441	0.2497202
Phkhd1l	-0.366804	0.0033224	0.2542111
Mob3b	-0.391648	0.003382	0.2572305
Nav2	0.3802544	0.0034248	0.2589481
Dab2	-0.375962	0.0034709	0.2594727
Irf8	-0.378114	0.003492	0.2594727
Capn11	-0.35212	0.0035	0.2594727
Spm2b	0.2171936	0.003513	0.2594727
Tmed7	0.2929666	0.0035373	0.2597706
Bttn10	-0.338488	0.0036277	0.2648867
Vat1l	-0.26756	0.0036498	0.2649816
Offm1	-0.323555	0.0036904	0.2664173
Cd81	0.3060449	0.0037356	0.2681667
Rab11fip4	-0.371835	0.0037828	0.2700357
Slc7a11	-0.364393	0.0038763	0.2751747
Fth1	-0.256175	0.003947	0.2763433
Slc38a9	-0.307885	0.0039493	0.2763433
Fhl1	0.3577924	0.0039884	0.2763433
Timp3	-0.278574	0.0039992	0.2763433
Ahnak	-0.298723	0.0040009	0.2763433
Atp5f1	0.2327187	0.0040522	0.2783807
Rps3a	0.2369647	0.0040777	0.2786372
Idh1	0.3011384	0.004113	0.2795515
Ccni	0.2684712	0.0043467	0.2924342
B4galnt3	-0.273817	0.0043483	0.2924342
Naa	-0.360787	0.0043999	0.2926136
Pdia4	0.2411396	0.0044145	0.2926136
Pld2	-0.372593	0.004425	0.2926136
Ctsc	-0.258319	0.0044426	0.2926136
Rnf123	-0.245398	0.0044981	0.2947507
Rab31l1	-0.342837	0.0045343	0.2956101
Cyp4f16	-0.351355	0.0045639	0.2960248
1700024P1	-0.33324	0.0046579	0.3005974
Srs3	0.2611946	0.0047264	0.3005974
Apob	-0.370651	0.0047456	0.3029023
Plxna4	0.3773597	0.0047647	0.3029023
Mfhfasi	-0.372632	0.0048371	0.3059824
Myom1	-0.374475	0.0048675	0.3063897
Lrp1	-0.341482	0.0049326	0.3079728
Prkcd	-0.285629	0.0049541	0.3079728
Ola1	0.2508364	0.0049752	0.3079728
Il2rb	0.3593636	0.0049891	0.3079728

Gene Symb	Log2 Fold C	p Value	FDR Adj p Value
Ctsb4x	0.2364829	0.0111132	0.4511571
Tms10	-0.326089	0.0111209	0.4511571
Nfkbi	-0.306888	0.0111594	0.4511571
Mmp14	-0.338435	0.0111958	0.4511571
Myo1c	-0.238127	0.0112165	0.4511571
Cma1	0.1983146	0.0112277	0.4511571
Tcp1	0.165393	0.0113489	0.4528778
Axin2	-0.30609	0.0113557	0.4528778
Enc1	-0.329446	0.0114005	0.4528778
Impad1	0.2472444	0.01143	0.4528778
Slc9a7	-0.334987	0.0114478	0.4528778
Trem2	0.2208378	0.0114863	0.4530001
7-Sep	0.233138	0.0115862	0.4552954
Hist1h2bn	0.246434	0.0116158	0.4552954
Plaf	0.249484	0.0117132	0.457102
Epb4.2	-0.313754	0.0117706	0.4579989
Sarb1	0.3077447	0.0118061	0.4579989
Dusp2.2	-0.313404	0.0118281	0.4579989
S331439G0	-0.287312	0.0119146	0.459554
Syn3	-0.320004	0.0120151	0.4600137
Bz1	0.1687131	0.0120559	0.4601137
Eys1	-0.18491	0.0120893	0.4601137
Csf2ra	-0.289317	0.0120918	0.4601137
Arf6ip1	0.2351613	0.0120961	0.4601137
Gng11	0.319319	0.0122556	0.4646946
Tepl	0.223562	0.0123276	0.4651715
Gcgbp1	0.1779959	0.0123485	0.4651715
Gpd1	0.2311714	0.0123774	0.4651715
Nfkbia	-0.296739	0.012431	0.4658145
Ube2d3	0.2265257	0.0124823	0.4663691
Pnri	-0.322413	0.0126058	0.4696121
Tnng3	-0.323303	0.0126492	0.4698595
Gen	-0.295519	0.0127387	0.4707243
MoB4	0.2972268	0.0127535	0.4707243
Dnab11	0.2141649	0.0127908	0.4707243
Ramp1	0.21832496	0.0128199	0.4707243
06100070L0	0.2401631	0.0130201	0.4752663
Kynu	-0.304597	0.0130545	0.4752663
Mnt	-0.265016	0.0130551	0.4752663
Amz1	-0.330483	0.0131395	0.4758852
Col2a7a	-0.222112	0.0131466	0.4758852
Ahr	-0.319661	0.0131915	0.476106
Angpt1	0.2702578	0.0134171	0.4818054
11100001A1d	0.3061906	0.0134233	0.4818054
Sash1	-0.3276	0.0135063	0.4821634
Pdp1	0.3298248	0.0135087	0.4821634
Tjp1	0.3250972	0.013578	0.4828384
Mcf2d	0.2556694	0.0136032	0.4828384
Arhgef1	-0.190179	0.0136508	0.4831851
Sipal1b	-0.23236	0.0139273	0.4897961
Cox7b	0.279776	0.0139344	0.4897961
Nfe2	0.2621666	0.0139526	0.4897961
Cxcr4	0.2702791	0.0141159	0.4941742
Mvd	0.304553	0.0141794	0.49504
0010018G0	0.2789702	0.0142775	0.4971055
Lilrb3	-0.326207	0.014668	0.5081516
Aco2	0.1736377	0.0146994	0.5081516
Nr4a3	-0.296748	0.0147284	0.5081516
Ankrd11	-0.159476	0.014774	0.5081516
Smad6d	-0.323317	0.0147936	0.5081516
Psm2a	0.2127204	0.0148946	0.5102501
5530601H0	-0.242329	0.0149361	0.5103049
Casokin2	-0.318996	0.0150093	0.5105546
Sik1	-0.293134	0.0150234	0.5105546
Hist1hd4	0.3188682	0.0150772	0.5110236
Rtp4d	0.2271819	0.0151328	0.5115444
Tab54	0.190508	0.0153167	0.516004
0102406E13	-0.213521	0.0154403	0.520178
Col1a2	-0.179103	0.0155101	0.520178
Sema7a	-0.29266	0.0155909	0.5215884
Hist1h2be	0.2631176	0.0156636	0.5225824
Cif1b	0.2866683	0.01568	0.5236986
Cttnf6	-0.321789	0.016086	0.5338896
9530068E0	0.219461	0.0162472	0.5350187
Tuba8	0.3082088	0.0162592	0.5350187
Celf2	0.2015842	0.0162641	0.5350187
Trem30a	0.2324237	0.0163143	0.5350187
Niacr1	0.3015556	0.0163305	0.5350187
Dnaja4	-0.320673	0.0163713	0.5350187
Gsta2	0.25547	0.0165735	0.5396833
Hist1h2bc	0.2928815	0.0165985	0.5396833
Polr2d	0.2876514	0.0167345	0.5427256
Cln4-2	-0.260697	0.0169543	0.5484609
Sfcm1	0.1849268	0.0171474	0.5535056
Lman2	0.1843527	0.0173151	0.5545665
Nr2a23	-0.298045	0.0173895	0.5545665
B4gal3t3	-0.273817	0.0173979	0.5545665
Lp8	-0.236296	0.017403	0.5545665
Ct3h12a	-0.29464	0.0174034	0.5545665
2510009E0	0.2173937	0.0176987	0.5606429
Gatm	-0.240736	0.017704	0.5606429
1700008J0	-0.316791	0.0177971	0.5606429
Aldh2	0.2277047	0.0178127	0.5606429
Ifsc	0.2294164	0.017878	0.5606429
Tlec	0.2361584	0.0179659	0.5606429
Vps35	0.1863878	0.0180019	0.5606429
Mbn1b	0.2533518	0.0180214	0.5606429
Tipin	0.2217972	0.018052	0.5606429
Sypl	0.2378928	0.0180905	0.5606429
H3f3b	0.1548281	0.0181418	0.5606429
H1f0	0.2462311	0.0182442	0.5606429
C2dap	-0.285757	0.018247	0.5606429
Rgs12	-0.265227	0.0182952	0.5606429
Lrrc16a	-0.271501	0.0183022	0.5606429

Hist1h2bb	-0.220550425	-0.0050149	-0.3080626
Ptpn7	-0.26171477	-0.005387	-0.3080626
Cmtm7	-0.263768119	-0.0050985	-0.3102329
Nfkfielb	-0.37192946	-0.005192	-0.3130242
Risd-ps2	-0.340521416	-0.0051934	-0.3130242
Rac2	-0.277604693	-0.0052371	-0.3141772
Sic20a1	-0.207973584	-0.0053223	-0.3177961
Svip	-0.362191679	-0.0054856	-0.3260206
Cyp27a1	-0.236184518	-0.0056242	-0.3327102
Wdr81	-0.247787247	-0.0057191	-0.3363082
Top2b	-0.190536393	-0.0057376	-0.3363082
Ucp2	-0.224030179	-0.0058132	-0.3388175
Ppp6r2	-0.294318092	-0.0058619	-0.3388175
Zfp361i	-0.329412117	-0.0059163	-0.3388175
Gapt	-0.363807202	-0.0059449	-0.3388175
Uqcqr	-0.356845035	-0.0059567	-0.3388175
At662270	-0.232061623	-0.0059684	-0.3388175
Hist1h2ad	-0.365871901	-0.0059768	-0.3388175
Tmx3	-0.262359107	-0.0060171	-0.3388175
Tspan33	-0.359289687	-0.0060228	-0.3388175
Zfp516	-0.314748342	-0.0060456	-0.3388175
Hist1h2bh	-0.296786382	-0.0061202	-0.3410798
Uqcrc1	-0.27895435	-0.0061393	-0.3410798
B3gnt2	-0.277011651	-0.0062944	-0.3474694
Gnai3	-0.253211266	-0.0063087	-0.3474694
Car8	-0.346890645	-0.0063372	-0.3475386
Clec4b2	-0.351163494	-0.0064154	-0.3480103
1300017J02	-0.274641337	-0.0064261	-0.3480103
Ilgab6	-0.281623929	-0.0064275	-0.3480103
Tug1	-0.226089998	-0.006482	-0.34948
Angptl2	-0.360990951	-0.0065162	-0.3498492
Prrg1	-0.345240683	-0.0066821	-0.3572554
F2r13	-0.337361208	-0.0067613	-0.3599821
Ilgae	-0.356522836	-0.0070188	-0.3680533
Jun	-0.284724234	-0.0070456	-0.3680533
Tuba4a	-0.2369202	-0.0070485	-0.3680533
Ldhal6b	-0.321035163	-0.0070492	-0.3680533
Iltf3	-0.346757077	-0.0070621	-0.3680533
4930412C13	-0.218865626	-0.0070857	-0.3680533
Rusc2	-0.358168671	-0.0071749	-0.3684387
VIII	-0.336165482	-0.0071768	-0.3684387
Abcd3	-0.293995509	-0.0071796	-0.3684387
Uchi5	-0.232014734	-0.0073181	-0.3727643
Rab1	-0.224681799	-0.0073223	-0.3727643
Mdh1	-0.250095762	-0.0075036	-0.3804786
Hspa5	-0.200824984	-0.0077543	-0.3913634
H2-Q4	-0.286714558	-0.007891	-0.3942142
6330416G1	-0.3495821	-0.0078968	-0.3942142
Fads3	-0.33640465	-0.0079316	-0.3942142
Kit	-0.222141549	-0.0079452	-0.3942142
Alias2	-0.354625384	-0.0079596	-0.3942142
Klc1	-0.261003109	-0.0080921	-0.399157
Plekha5	-0.350408697	-0.0081218	-0.399157
Atg9a	-0.206369912	-0.0082092	-0.401905
Adam19	-0.351691679	-0.0082772	-0.4029037
Gm14420	-0.350064049	-0.0082927	-0.4029037
Btlnr9	-0.256284307	-0.0083979	-0.4060261
Tph1	-0.271830441	-0.0084341	-0.4060261
Nlrp3	-0.351907502	-0.0084644	-0.4060261
Kcna3	-0.311461253	-0.008484	-0.4060261
Tm9sf3	-0.182535467	-0.0085825	-0.4073039
Samd9l	-0.246996392	-0.0085894	-0.4073039
Pdk1	-0.247056575	-0.0086389	-0.4073039
Elovl5	-0.289721667	-0.0087214	-0.4073039
Npm1	-0.214086868	-0.0087234	-0.4073039
Ier5	-0.290639698	-0.0087469	-0.4073039
Abca3	-0.258372581	-0.0087556	-0.4073039
Dapk1	-0.309746624	-0.0087657	-0.4073039
Fyco1	-0.254466074	-0.008818	-0.4082494
Hbpg111	-0.193247536	-0.0088668	-0.4090261
Pgd	-0.28704104	-0.0089632	-0.4119862
Vcl	-0.217142403	-0.0091436	-0.4187716
Lima1	-0.343941384	-0.0092321	-0.4213124
Il10ra	-0.320046923	-0.0093381	-0.4237798
Rab3d	-0.336654302	-0.0093525	-0.4237798
Scarna2	-0.304646199	-0.0095204	-0.4297662
Igfbf8	-0.276959435	-0.0095566	-0.4297662
Pnp	-0.293002046	-0.0096004	-0.4297662
Tpbro	-0.307225426	-0.0096489	-0.4297662
Calu	-0.205870448	-0.0096798	-0.4297662
Trp53inp1	-0.269613618	-0.009712	-0.4297662
Nov	-0.251513826	-0.00972	-0.4297662
F830002L21	-0.150504492	-0.0097952	NaN
Sbno2	-0.235467224	-0.0098537	-0.4307457
Cyp4f18	-0.333413569	-0.0098651	-0.4307457
Verf1	-0.261633296	-0.0098685	-0.4307457
Ltpb1	-0.33172899	-0.009877	-0.4307457
Fbw10	-0.29963525	-0.0099213	-0.4310131
Camsap2	-0.282794505	-0.0099601	-0.4310131
Vat1	-0.21846842	-0.0099843	-0.4310131
15-Sep	-0.209295556	-0.01007	-0.4332456
Gypa	-0.334945742	-0.0101922	-0.4363778
Zdhc14	-0.339094112	-0.010261	-0.4363778
Mfap3l	-0.337061219	-0.0102908	-0.4363778
Igfbf3	-0.325591154	-0.0103346	-0.4363778
Colsa1	-0.309973244	-0.010347	-0.4363778
Tmem106a	-0.319882562	-0.0103638	-0.4363778
Cse1l	-0.247512621	-0.0104291	-0.4363778
Pttg1ip	-0.26323536	-0.010438	-0.4363778
Ba1l	-0.174832451	-0.0104406	NaN
Cfp	-0.280600473	-0.0104639	-0.4363778
Esd	-0.290469667	-0.0105012	-0.4363778
Serp1	-0.229851431	-0.0105188	-0.4363778
Trtb1	-0.339278388	-0.0105526	-0.4363778
Fgd2	-0.330990415	-0.0106134	-0.4374788

Csmp1	-0.285346	-0.0183154	-0.5606429
Sic30a10	-0.237513	-0.0183814	-0.5606429
L3mbt13	-0.276541	-0.0183839	-0.5606429
Ogn3	-0.312904	-0.0184364	-0.5609062
Leng8	-0.19836	-0.0185231	-0.5615308
Mgat5	-0.1866837	-0.0185448	-0.5615308
Cad11	-0.29692	-0.0186037	-0.5639392
Ppp2ca	-0.1887027	-0.0187126	-0.5639392
Rps27l	-0.2548976	-0.0188496	-0.5667286
Arf1	-0.1794089	-0.018947	-0.5683204
Rnf150	-0.293733	-0.0191636	-0.5685975
Mthfr	-0.251196	-0.0191721	-0.5685975
Taf1d	-0.176406	-0.0192282	-0.5685975
Camta2	-0.261829	-0.0192289	-0.5685975
Iars2	-0.1856086	-0.0192569	-0.5685975
Pik3r5	-0.300283	-0.0192684	-0.5685975
Clk3	-0.230382	-0.0193044	-0.5685975
Fundc1	-0.3045436	-0.0193122	-0.5685975
Cyrr1	-0.149833	-0.0194065	NaN
Tmem158	-0.2652241	-0.019411	-0.5701299
Fis1	-0.2392825	-0.0194875	-0.571127
Pbk	-0.2252684	-0.0196326	-0.5727723
Mgst3	-0.298215	-0.0196711	-0.5727723
Ryk	-0.280349	-0.0196781	-0.5727723
Rnf144b	-0.311423	-0.0198068	-0.5733935
Hs6t1	-0.294057	-0.0198156	-0.5733935
Mmp12	-0.182471	-0.0198474	-0.5733935
Gm614	-0.291149	-0.0199168	-0.5733935
Rpl7	-0.1921879	-0.0199238	-0.5733935
Sh2d5	-0.2727248	-0.019993	-0.57409
Lrrk1	-0.220735	-0.0200906	-0.5756002
Tmem40	-0.2913162	-0.0201459	-0.5758946
4930473A0	-0.300091	-0.0203792	-0.5807089
Lgals3	-0.236477	-0.0204052	-0.5807089
Etfb	-0.2017365	-0.0205165	-0.5825763
Clec4d	-0.303223	-0.0206241	-0.58315
Zfp238	-0.215519	-0.0206884	-0.58315
Tmem154	-0.30291	-0.020711	-0.58315
PI4	-0.2509064	-0.020746	-0.58315
Mtpn	-0.1991806	-0.0207648	-0.58315
P2rx5	-0.298289	-0.0208273	-0.5836214
Rpl35a	-0.3074826	-0.0209032	-0.5836955
Pola2	-0.204533	-0.0209339	-0.5836955
Rpl37b	-0.252207	-0.020967	-0.5836955
Inpp1	-0.307323	-0.0210653	-0.5848696
Itm2c	-0.226533	-0.0211007	-0.5848696
Cpeb1	-0.143991	-0.0211801	NaN
Api5	-0.1954909	-0.0212097	-0.5865042
6330409N0	-0.3057084	-0.0212515	-0.5865042
Rpl26	-0.228329	-0.0214824	-0.5905724
Sic4a2	-0.232018	-0.0214913	-0.5905724
D10Bwg137	-0.303418	-0.0216482	-0.5932141
Rps15	-0.2059274	-0.02176	-0.5932141
Fkbp5	-0.1999323	-0.0217601	-0.5932141
Psmc6	-0.2225076	-0.0217909	-0.5932141
Rps20	-0.2519178	-0.0218309	-0.5932141
Denn4d	-0.186469	-0.021866	-0.5932141
Npy	-0.2821654	-0.0220189	-0.5953184
Klf2	-0.28513	-0.0220632	-0.5953184
Napsa	-0.227295	-0.0220833	-0.5953184
Mapk8ip3	-0.193683	-0.0222554	-0.598694
Siglehc	-0.272683	-0.0224103	-0.5990664
Myof	-0.242423	-0.0224649	-0.5990664
Cct4	-0.1553917	-0.0225187	-0.5990664
Tgfb1	-0.260056	-0.0225748	-0.5990664
Rpl6	-0.2162287	-0.0225531	-0.5990664
Il4ra	-0.222598	-0.0225674	-0.5990664
Prrc1	-0.171107	-0.0226514	-0.5990664
Rps8	-0.1751107	-0.0227185	-0.5990664
Rspry1	-0.2244845	-0.0227228	-0.5990664
Fxyd4	-0.23612	-0.0227381	-0.5990664
Sh3tc2	-0.267716	-0.0228472	-0.6006581
Nedd9	-0.2498599	-0.0229328	-0.6006581
Etf1	-0.1558174	-0.0229648	-0.6006581
Pnp1a7	-0.2351	-0.0229865	-0.6006581
Pdcd2	-0.2747087	-0.0230409	-0.6008505
Wbp7	-0.27695435	-0.0231259	-0.6011509
St14	-0.278689	-0.0231754	-0.6011509
Per1	-0.224462	-0.0232586	-0.6011509
Usp36	-0.196901	-0.0232716	-0.6011509
Mind1	-0.2933704	-0.0233706	-0.6011509
Rapsn	-0.2311947	-0.0234143	-0.6011509
Nudcd2	-0.2035908	-0.0234362	-0.6011509
Hyo1	-0.195817	-0.023502	-0.6011509
Zfp658	-0.277765	-0.0235583	-0.6011509
Rbm34	-0.2402074	-0.023583	-0.6011509
Scpcep1	-0.288378	-0.0236414	-0.6011509
Sort1	-0.2260492	-0.0236721	-0.6011509
Psmb4	-0.1953345	-0.0237688	-0.6011509
Abcb1b	-0.270391	-0.0238271	-0.6011509
Zbtb7b	-0.258564	-0.0238465	-0.6011509
Aim1	-0.297242	-0.0238782	-0.6011509
Nek6	-0.245318	-0.0239456	-0.6011509
Ofdm4	-0.250196	-0.0239938	-0.6011509
H2-DMa	-0.284042	-0.0240365	-0.6011509
Rpl32	-0.2234129	-0.0240675	-0.6011509
H2-D1	-0.181347	-0.0240715	-0.6011509
Sh3bp5	-0.294465	-0.0240874	-0.6011509
Hspa13	-0.2554909	-0.0241957	-0.6026769
Rhou	-0.2829056	-0.0242932	-0.6039276
Agpat4	-0.296797	-0.0247211	-0.6130741
Iklbp	-0.2947568	-0.0248751	-0.6130741
Flnp2	-0.20221	-0.0248373	-0.6138763
Naa20	-0.1686559	-0.0249794	-0.6161916
Mmp25	-0.277178	-0.0250729	-0.6160006

Tax1bp1	-0.1624919	-0.0421648	-0.7396442
Ccdc102a	-0.269075	-0.0422038	-0.7396442
Eccl1	-0.209619	-0.0422807	-0.7396442
Rasgrp2	-0.2415197	-0.0423264	-0.7396442
Alox5	-0.195159	-0.0426526	-0.7408859
Hip1bp3	-0.1399999	-0.0426743	-0.7408859
Snx31	-0.211195	-0.0428504	-0.7410662
Zfp263	-0.18676	-0.0428557	-0.7410662
Sic12a7	-0.240222	-0.0428587	-0.7410662
Calcr1	-0.2353742	-0.0429437	-0.7415329
Dst	-0.235996	-0.0430878	-0.7425652
Mtap4	-0.193652	-0.0431197	-0.7425

Hist1h1c	0.177742888	0.0110071	0.4509327
Dip2c	-0.336597644	0.0110104	0.4509327
Adam9	-0.223505466	0.0254552	0.6207368
Rhag	-0.296909031	0.0255484	0.6218239

Rps25	0.2450125	0.0250925	0.6166006
Slc6a20b	-0.238755	0.0251438	0.6166735
Lman1	0.1885638	0.0252618	0.6178318
Ets1	0.2544737	0.0252877	0.6178318

Wdr61	0.2096582	0.0493627	0.756101
5430437J10	-0.10248	0.0494021	NaN
Rabep1	-0.172383	0.0494087	0.756101
Zgpat	-0.197723	0.0494705	0.7561409

Cacna1h	-0.215628	0.0499062	0.7564677
Ppm1f	0.2303257	0.0255975	0.6218333
1810011H1	0.2978965	0.0256889	0.6221637

Gene Symt	Log2 Fold	p Value	FDR Adj p Value
Capn11	1.191442	2.25E-07	0.002823
Cacnb3	1.756749	1.79E-06	0.011255
Mrc1	1.444092	7.25E-05	0.303649
Mgam	-1.29754	0.000114	0.357225
Ear1	-1.28097	0.000314	0.681309
Plac8	-1.11788	0.000325	0.681309
Rab27b	1.023083	0.000396	0.711271
Adam11	1.276823	0.000561	0.852123
Cd74	1.198533	0.000646	0.852123
Trpm2	1.112389	0.000678	0.852123
Epex	-0.98751	0.000877	0.925728
Ptgr1	-1.06979	0.000884	0.925728
Gstm1	-1.0787	0.000988	0.954613
Neb	1.043137	0.001146	0.998844
Itgb3	1.099943	0.001364	0.998844
Ppbb	1.177941	0.001373	0.998844
Nav2	-1.12772	0.001592	0.998844
Lrp1	-1.16507	0.001654	0.998844
Lbp	-1.11667	0.002138	0.998844
Anpep	1.132362	0.002193	0.998844
Mtus1	-1.02697	0.002284	0.998844
Z61050710	-1.02775	0.002293	0.998844
Clec12a	-1.08805	0.002333	0.998844
Elane	-1.04572	0.002351	0.998844
Ramp1	-0.96414	0.002392	0.998844
Itga2b	0.791518	0.002481	0.998844
Afap1	-1.09033	0.0026	0.998844
Xdh	-1.10858	0.002815	0.998844
Kynu	1.082701	0.002841	0.998844
Dock9	-0.91596	0.002989	0.998844
Prss57	-1.00864	0.003169	0.998844
Fcgrt	1.055492	0.003327	0.998844
Abca1	-1.05046	0.003339	0.998844
Sl8a1	1.084737	0.003435	0.998844
Slc28a2	-1.05364	0.004051	0.998844
Fscn1	1.041611	0.004109	0.998844
Chdh	-1.03256	0.004114	0.998844
1190002H2	-0.95087	0.004415	0.998844
Slc15a3	1.054147	0.004505	0.998844
Cd9	0.885	0.005106	0.998844
Cybb	-0.88704	0.005225	0.998844
Gmb221	0.965442	0.005267	0.998844
Ptd1lg2	1.023365	0.005458	0.998844
Myo18b	-0.99515	0.005552	0.998844
Mylk	0.866262	0.005634	0.998844
Fam40b	1.019413	0.005658	0.998844
Adcy6	0.883872	0.00584	0.998844
Mgl2	1.019072	0.005895	0.998844
Cdc135	-0.91326	0.006056	0.998844
H2-Ab1	1.014057	0.006087	0.998844
Arhgef3	-1.01104	0.006209	0.998844
Scnn1a	-0.98111	0.006267	0.998844
L1cam	0.960775	0.006275	0.998844
Slglec	1.004905	0.006387	0.998844
Rappgef3	-1.00053	0.006581	0.998844
Prg2	-0.96019	0.006749	0.998844
Atp1a3	-0.90317	0.006853	0.998844
Naip5	-0.99372	0.006858	0.998844
Tspan2	-0.9579	0.006862	0.998844
Rnu11	-0.98925	0.006955	0.998844
Pf4	0.746882	0.007042	0.998844
Klre1	-0.85614	0.007043	0.998844
Timp3	0.976832	0.007171	0.998844
Adsl1	-0.89829	0.007254	0.998844
Gpc1	-0.89338	0.007433	0.998844
Pld2	0.959016	0.007444	0.998844
Pde2a	-0.8498	0.007683	0.998844
Sema6d	0.960671	0.007796	0.998844
H2-DMb2	0.977044	0.007974	0.998844
Ear6	-0.8925	0.008063	0.998844
Itgad	-0.85781	0.008189	0.998844
Klf17	-0.97231	0.008685	0.998844
Abca4	0.955865	0.008793	0.998844
Calr	-0.70538	0.009026	0.998844
Spata13	-0.84197	0.009197	0.998844
Bzap1	-0.9465	0.009332	0.998844
Pgf	0.936751	0.009458	0.998844
Sytl2	-0.84575	0.009728	0.998844
Slc22a23	0.847397	0.00976	0.998844
Rnf150	0.943853	0.010137	0.998844
Ivd	-0.81327	0.0103	0.998844
Sphk1	0.894024	0.010561	0.998844
Pkrkb	-0.87249	0.010959	0.998844
Trp53inp1	-0.78295	0.011121	0.998844
Paln	-0.72617	0.011192	0.998844
Mycn	0.886856	0.011201	0.998844
Rilp2	-0.92796	0.011209	0.998844
P2rx5	0.933598	0.011434	0.998844
Adam8	0.902203	0.011478	0.998844
Iqgap2	-0.90651	0.011589	0.998844
Snord15b	-0.9362	0.01164	0.998844
Evp1	-0.86136	0.01184	0.998844
Msr1	0.876324	0.01203	0.998844
Nlrc4	-0.90145	0.012208	0.998844
Ypel2	-0.9242	0.012392	0.998844
Mmp25	0.922021	0.012412	0.998844
Hbegef	0.92672	0.012414	0.998844
Mgst1	-0.89747	0.01244	0.998844
Atp9a	-0.79843	0.01259	0.998844
Irf5	0.865724	0.012627	0.998844

Gene Symt	Log2 Fold	p Value	FDR Adj p Value
Bmx	-0.83542	0.012815	0.998844
Srgn	-0.65148	0.012928	0.998844
Srnra81	-0.91083	0.012952	0.998844
Cdh1	0.920596	0.012978	0.998844
Oas2	-0.85111	0.013024	0.998844
Nrg2	-0.90232	0.01309	0.998844
Tbc1d4	0.769184	0.013325	0.998844
H2-Eb1	0.903548	0.013406	0.998844
Ccr7	0.865023	0.013471	0.998844
H2-Aa	0.913598	0.013709	0.998844
Ptma	-0.9032	0.013826	0.998844
Sdc1	-0.91002	0.013943	0.998844
Ahr	0.743668	0.013967	0.998844
Jakmip1	-0.85152	0.014098	0.998844
Nucb2	-0.86703	0.014105	0.998844
Pla2g4b	-0.80884	0.014108	0.998844
Rasgef1b	0.828825	0.014121	0.998844
Rhob	-0.85611	0.014222	0.998844
5830416P1	-0.89186	0.014257	0.998844
Cnn3	-0.90605	0.014298	0.998844
Pcd4	-0.90689	0.014673	0.998844
Kcnj5	0.886701	0.014624	0.998844
Ifngr1	-0.76796	0.014724	0.998844
Nod1	-0.86932	0.014777	0.998844
Ddx60	-0.86666	0.015181	0.998844
Evl	-0.85708	0.015268	0.998844
Pbx1	0.715007	0.015322	0.998844
Epsti1	-0.88809	0.015352	0.998844
Hsd11b1	-0.89214	0.015385	0.998844
Trem1	-0.86448	0.015417	0.998844
BC020535	-0.88222	0.015572	0.998844
Myo3b	-0.7543	0.015632	0.998844
Efcab4a	-0.89173	0.01577	0.998844
Pyrxd2	-0.86005	0.015832	0.998844
Socs2	0.870748	0.015905	0.998844
Slc36a2	-0.84706	0.015973	0.998844
Fam107b	-0.75488	0.016338	0.998844
Arhgef18	-0.88189	0.016429	0.998844
Slc35d3	0.807468	0.016453	0.998844
Cd28	-0.84836	0.016479	0.998844
Gucy1b3	0.886542	0.01658	0.998844
Myo1f	-0.84255	0.016803	0.998844
Havcr2	0.87027	0.017051	0.998844
Cd86	0.863281	0.017115	0.998844
Kmo	0.858278	0.017179	0.998844
Kirb1f	-0.88349	0.017284	0.998844
Slc37a3	0.797283	0.017333	0.998844
Lpo	-0.85208	0.017424	0.998844
Adam23	0.770518	0.017526	0.998844
Jak2	0.653791	0.01785	0.998844
Ccdc149	-0.85314	0.017856	0.998844
Tbcd19	0.797112	0.017893	0.998844
Btbd11	-0.85149	0.017894	0.998844
Cd97	-0.82674	0.018055	0.998844
Kirld1	-0.79395	0.018174	0.998844
Ddx58	-0.85706	0.018254	0.998844
Fads3	0.806495	0.018741	0.998844
Snord15a	-0.86249	0.019115	0.998844
Axl	0.867841	0.019353	0.998844
Hkx3	-0.80532	0.019464	0.998844
Plxd2	0.827301	0.01967	0.998844
Dstn	-0.73933	0.019758	0.998844
Ppp2r3a	0.735197	0.019835	0.998844
Lilrb3	0.802829	0.019863	0.998844
Wdr65	-0.85368	0.01987	0.998844
Fcgr3	-0.7204	0.019959	0.998844
Gp49a	0.742019	0.020276	0.998844
Lifr	0.781009	0.020302	0.998844
Lad1	0.784154	0.020553	0.998844
Selp	0.743126	0.020687	0.998844
Ptpn22	-0.85475	0.020692	0.998844
Gzmb	0.846799	0.020748	0.998844
Pvgrn	-0.84776	0.02079	0.998844
Plk1s1	-0.85223	0.020854	0.998844
Ing2	-0.85164	0.021292	0.998844
Ccr12	-0.85393	0.021324	0.998844
Alas1	-0.72608	0.021494	0.998844
Ctsg	-0.80395	0.021503	0.998844
Pbx4	-0.76856	0.021517	0.998844
Sned1	0.835774	0.021631	0.998844
Mfhaf5	0.778673	0.021787	0.998844
BC035044	-0.62244	0.022211	0.998844
Pkhd11	0.747509	0.022242	0.998844
Cdk19	-0.79918	0.022428	0.998844
Gp5	0.759301	0.022655	0.998844
Mefv	-0.80422	0.022705	0.998844
Ankrd33b	0.793455	0.022886	0.998844
9130014G2	-0.66176	0.023051	0.998844
Gm9766	-0.83283	0.023094	0.998844
Agps	-0.76377	0.023471	0.998844
Trf	-0.77675	0.023524	0.998844
Fos	-0.83863	0.023682	0.998844
P2rx7	-0.80661	0.023724	0.998844
Arhgap15	-0.79242	0.02384	0.998844
Pip5k1b	-0.82424	0.023847	0.998844
Mob1b	0.703912	0.024007	0.998844
Samd14	0.781128	0.02431	0.998844
Trpc6	0.715581	0.02437	0.998844
BC005764	-0.69225	0.024446	0.998844
Cds1	-0.81376	0.024568	0.998844

Gene Symt	Log2 Fold	p Value	FDR Adj p Value
Fn1	0.783415	0.024759	0.998844
Sik1	-0.83139	0.024844	0.998844
Gbp9	-0.7719	0.025007	0.998844
Atp8b4	-0.69388	0.02524	0.998844
Ataoh	-0.74083	0.025293	0.998844
Crtam	-0.74188	0.025507	0.998844
Notch1	-0.70581	0.025564	0.998844
Sp100	-0.80596	0.025583	0.998844
Tmem38b	-0.66406	0.025611	0.998844
Malt1	0.653671	0.025922	0.998844
Klhl24	-0.74687	0.026208	0.998844
Rps6ka2	-0.74806	0.026388	0.998844
Dab2	0.7215	0.026483	0.998844
Lax1	-0.80489	0.02654	0.998844
Als2cl	0.775086	0.026577	0.998844
Slc14a1	0.627437	0.026667	0.998844
Ly9	-0.81454	0.026853	0.998844
Apol7e	-0.67794	0.026891	0.998844
Rgnef	-0.8203	0.026943	0.998844
Spna1	0.598736	0.027098	0.998844
Matb	0.782317	0.027514	0.998844
IL17rb	-0.80923	0.027521	0.998844
Nrgn	0.817007	0.027704	0.998844
Gp1bb	0.811722	0.027744	0.998844
Gli3	-0.72602	0.027749	0.998844
Kdr	0.774856	0.027756	0.998844
Cacna1h	-0.73986	0.028235	0.998844
Kit	-0.67712	0.028256	0.998844
Col1a1	-0.71501	0.02828	0.998844
Npy	0.703085	0.02853	0.998844
Sepp1	-0.80594	0.028583	0.998844
Baiap3	-0.80953	0.028994	0.998844
Anxa3	-0.73441	0.029134	0.998844
4933440M	-0.70008	0.029184	0.998844
Pvrl1	-0.66837	0.029249	0.998844
Bmp2k	0.672267	0.029405	0.998844
A430078G2	-0.80628	0.029452	0.998844
Ctstn3	0.731483	0.029508	0.998844
Fgd2	0.692624	0.02957	0.998844
Lldrad3	-0.75108	0.029676	0.998844
Itsn1	0.648815	0.029793	0.998844
Ptm	0.758111	0.030193	0.998844
Kcnt1	-0.61529	0.030275	0.998844
Lmna	0.657045	0.030389	0.998844
Hpsa	-0.80101	0.030405	0.998844
Lama5	0.794896	0.030502	0.998844
Syne2	-0.69088	0.030764	0.998844
Trem3	-0.7828	0.03092	0.998844
Robo3	0.735006	0.030935	0.998844
Frmcd7	-0.79541	0.031605	0.998844
Nkap5	-0.79162	0.031777	0.998844
Ittm2b	-0.56824	0.03198	0.998844
Plg2a6f	0.790681	0.032612	0.998844
Dnahc8	-0.79274	0.032647	0.998844
Cgln1	-0.78579	0.032708	0.998844
Tmem180	-0.71995	0.032844	0.998844
Sema7a	0.786994	0.032854	0.998844
Rbpms2	0.771306	0.032922	0.998844
Cd3b	-0.75277	0.032959	0.998844
Dnah1	-0.75984	0.033004	0.998844
Plp2a6f	0.710482	0.03305	0.998844
Zfp3421	0.63912	0.033352	0.998844
Acse	0.644595	0.033564	0.998844
Csgalnact1	0.74557	0.033617	0.998844
Ahrhg140	0.754984	0.033661	0.998844
Sell	-0.7285	0.033761	0.998844
D2-HDM1	0.774147	0.033883	0.998844
Esam	0.756156	0.033993	0.998844
Phyh	-0.78653	0.034055	0.998844
D1P2a7a	-0.78421	0.034483	0.998844
Cd24	0.705762	0.034572	0.998844
Otx4	-0.69522	0.034679	0.998844
Ltdah	-0.65368	0.034966	0.998844
Mpo	-0.72994	0.035119	0.998844
Relb	0.744801	0.035236	0.998844
Vav3	-0.74082	0.03548	0.998844
Dok2	0.710838	0.035594	0.998844
Rgs3	-0.75735	0.035605	0.998844
Styk1	-0.67777	0.035654	0.998844
Fnbp1	0.686642	0.035793	0.998844
H2-Q6	-0.66193	0.035976	0.998844
H2-Q4	-0.72928	0.036758	0.998844
Vdr	0.737416	0.036777	0.998844
Pmaip1	-0.64651	0.036957	0.998844
Gata1	0.700098	0.037331	0.998844
Zcchc14	0.73189	0.037431	0.998844
45903	0.699419	0.037887	0.998844
Rusc2	0.76606	0.037972	0.998844
Spry2	-0.76858	0.038043	0.998844
Sp110	-0.7644	0.038092	0.998844
Ifi203	-0.76492	0.038168	0.998844
Kcna3	0.616009	0.038232	0.998844
Pkrcc	0.745654	0.038249	0.998844
Atp8b1	0.767347	0.038407	0.998844
Nrg1	0.726957	0.038507	0.998844
Pks7	-0.73355	0.039248	0.998844
Slc18a2	0.629776	0.039258	0.998844
Nin	-0.62814	0.039687	0.998844
Claa1	0.640433	0.04	0.998844
Fasl	-0.67502	0.040188	0.998844

Z610018G	-0.70262	0.012681	0.999844
Dmd	0.900629	0.012807	0.999844

Furin	0.735336	0.024675	0.999844
Cd16311	0.818296	0.024723	0.999844

BC055004	0.745778	0.040213	0.999844
Hmgn2	-0.76075	0.040351	0.999844

Gene Symt	Log2 Fold	p Value	FDR Adj p Value
Xist	-7.29391	8.5E-131	1.1E-126
Ddx3y	5.472057	4.55E-65	2.84E-61
Eif2s3y	5.026848	3.11E-53	1.3E-49
Uty	4.655186	1.88E-44	5.87E-41
Kdm5d	4.593541	4.7E-43	1.17E-39
Pbbp	1.822122	1.35E-07	0.000281
Neb	1.554741	3.12E-07	0.000556
Mirc1	1.518764	1.05E-05	0.016354
Nalp5	-1.4871	0.000024	0.029986
Rab27b	1.206769	0.000024	0.029986
Alox15	-1.27627	8.25E-05	0.093751
Migam	-1.19805	0.000186	0.193791
PF4	1.006803	0.000205	0.19712
Cacnb3	1.301758	0.000268	0.226806
Lrp2	-1.29809	0.000272	0.226806
Itga1b	0.936769	0.000302	0.235622
Npy	1.208696	0.000424	0.312062
Itgb3	1.163113	0.000515	0.337775
Mtus1	-1.08127	0.000552	0.36332
St8sia1	1.178198	0.000898	0.558853
Ear1	-1.1201	0.000964	0.558853
Tubb1	1.18027	0.000983	0.558853
Gzmb	1.131536	0.001137	0.618241
Nrgn	1.125032	0.001584	0.805276
Bmx	-1.03934	0.001666	0.805276
Cd9	1.003233	0.001674	0.805276
Gp5	1.002427	0.001856	0.859734
Atp1a3	-0.98818	0.002154	0.961705
Furin	0.952619	0.002267	0.97412
Z61050710	-0.96861	0.002466	0.97412
Lbp	-1.02081	0.002511	0.97412
Esam	0.99975	0.002652	0.97412
Lif	1.036236	0.002657	0.97412
Mefv	-0.99189	0.002744	0.97412
Serpina3b	1.03712	0.00284	0.97412
Rbpms2	1.033419	0.002869	0.97412
Dmd	1.065101	0.002882	0.97412
Ltbp1	0.973471	0.003124	0.985234
Slc18a2	0.817749	0.003193	0.985234
Mgl2	1.024473	0.003278	0.985234
Snord15b	-1.05213	0.003288	0.985234
Glis3	-0.96769	0.003372	0.985234
Il11r1	0.974698	0.003431	0.985234
Fos	-1.04323	0.003467	0.985234
Asb2	1.011084	0.003725	0.999865
Fhl1	1.02325	0.003906	0.999865
P2rx7	-0.99519	0.003911	0.999865
Ch3i4	0.905766	0.004117	0.999865
Abca1	-0.97968	0.004183	0.999865
Mcp8	0.971505	0.004189	0.999865
Mfap3l	0.935344	0.004509	0.999865
Itns1	0.791969	0.004512	0.999865
Scn3a	0.963177	0.004695	0.999865
Adcy6	0.783903	0.005236	0.999865
Abca4	0.920822	0.005256	0.999865
Ccl6	0.993672	0.005265	0.999865
Epst11	-0.97829	0.005416	0.999865
Hck	-0.86405	0.00555	0.999865
Snord15a	-0.97414	0.005817	0.999865
Itgad	-0.83817	0.006077	0.999865
H2-Q4	-0.93827	0.006086	0.999865
Trtb1	-0.98225	0.006119	0.999865
Trem1	-0.93487	0.006356	0.999865
Robo3	0.785989	0.006407	0.999865
Sik1	-0.96941	0.006594	0.999865
Gstm1	-0.73987	0.006646	0.999865
Cybb	-0.82418	0.006653	0.999865
Trf	-0.90577	0.006952	0.999865
Dnahc8	-0.96537	0.00705	0.999865
Myo1f	-0.925	0.007147	0.999865
Trpc6	0.787709	0.007179	0.999865
Prgr2	-0.93777	0.007235	0.999865
Ccdc135	-0.84185	0.007315	0.999865
Col1a2	-0.94333	0.007845	0.999865
Dock9	-0.80564	0.007912	0.999865
Sdc1	-0.94484	0.008068	0.999865
Capn11	0.856106	0.008126	0.999865
Cacna1h	-0.84426	0.008155	0.999865
Rnu11	-0.93053	0.008186	0.999865
Plac8	-0.78488	0.00824	0.999865
Cd38	-0.8924	0.008291	0.999865
Evp1	-0.85305	0.008326	0.999865
Nod1	-0.91685	0.008337	0.999865
Anpnp	0.943928	0.008391	0.999865
Cebpb	-0.81711	0.008448	0.999865
Kif1f	-0.9381	0.008645	0.999865
Bmpr1a	-0.92673	0.008921	0.999865
Ing2	-0.93506	0.009011	0.999865
Notch1	-0.78382	0.009018	0.999865
Ifi203	-0.92729	0.009083	0.999865
Myof	-0.85086	0.009275	0.999865
Ddx60	-0.89022	0.009443	0.999865
Mrv1	0.879968	0.009536	0.999865
Cgn1	-0.85953	0.009781	0.999865
Itgax	-0.89272	0.010098	0.999865
Gata2	0.677456	0.010232	0.999865
Rasgef1b	0.749532	0.010291	0.999865
Slc35d3	0.835634	0.010373	0.999865
Arhgef3	-0.9134	0.010623	0.999865
Btbd11	-0.87649	0.010835	0.999865

Gene Symt	Log2 Fold	p Value	FDR Adj p Value
Pla2g4b	-0.80938	0.011003	0.999865
Tob1	-0.85581	0.011186	0.999865
Cd28	-0.85449	0.011329	0.999865
Gp9	0.898917	0.011421	0.999865
Gp49a	0.77372	0.011457	0.999865
Rhob	-0.86412	0.011621	0.999865
Dusp1	-0.89868	0.012073	0.999865
Ivd	-0.79559	0.012329	0.999865
Styk1	-0.74977	0.012521	0.999865
Pbx4	-0.79013	0.012541	0.999865
Nrg2	-0.87429	0.012598	0.999865
Cds1	-0.86298	0.012613	0.999865
Gucy1b3	0.892061	0.012686	0.999865
Myo18b	-0.85223	0.012834	0.999865
Kcnj5	0.877176	0.012968	0.999865
Tspan9	0.830488	0.013049	0.999865
Oas2	-0.80796	0.013081	0.999865
Klrf1	-0.7474	0.013379	0.999865
Snora81	-0.86663	0.013691	0.999865
Ier2	-0.83844	0.01372	0.999865
Evl	-0.83593	0.013877	0.999865
Chrne	-0.7597	0.014089	0.999865
Mndal	-0.85532	0.01432	0.999865
Rilpl2	-0.86966	0.014355	0.999865
Hgf	0.818489	0.01449	0.999865
Lama5	0.867495	0.014585	0.999865
Sp100	-0.85322	0.015029	0.999865
Klrd1	-0.76864	0.015267	0.999865
Claa1	0.674386	0.015551	0.999865
D1Pas1	-0.86369	0.015654	0.999865
Il6	0.86239	0.015695	0.999865
Irf8	-0.8639	0.015777	0.999865
Myo3b	-0.71999	0.015874	0.999865
Klrb1f	-0.86119	0.016104	0.999865
Ptgrn	-0.79494	0.016981	0.999865
5830416P1	-0.83235	0.01703	0.999865
Nlrp1b	-0.81109	0.01715	0.999865
Spso	-0.72571	0.017152	0.999865
Lax1	-0.83121	0.017245	0.999865
Jakmp1	-0.78592	0.017264	0.999865
Slc14a1	0.69659	0.017479	0.999865
Gas2l1	0.85029	0.017551	0.999865
Iqgap5	-0.82916	0.017658	0.999865
Slc2a3	0.722049	0.017769	0.999865
Fcgrt	0.825624	0.017862	0.999865
Epv	-0.71975	0.017993	0.999865
Ifit1	-0.73446	0.018022	0.999865
Mob1b	0.715614	0.018085	0.999865
Aoa4	-0.77019	0.018619	0.999865
Gnb4	0.745873	0.018668	0.999865
Nt5e	0.8071	0.01868	0.999865
Nr4a2	-0.77716	0.018868	0.999865
Rgs18	0.612817	0.019074	0.999865
Pim2	0.797167	0.019302	0.999865
Sgdr1	-0.80261	0.019354	0.999865
BC020535	-0.8222	0.019472	0.999865
Cd55	0.8178	0.019594	0.999865
4933440M	-0.7054	0.020167	0.999865
Klf2	-0.80441	0.020375	0.999865
Cep164	-0.82122	0.020666	0.999865
Mimr1	0.783301	0.02073	0.999865
Ptxcd2	0.78944	0.020874	0.999865
Dnajb1	-0.80017	0.020924	0.999865
Ctla2a	0.576984	0.021137	0.999865
Slc22a3	0.663606	0.021177	0.999865
Alox12	0.818337	0.021622	0.999865
Dok2	0.726809	0.022075	0.999865
Ldlrad3	-0.76683	0.022419	0.999865
Pip5k1b	-0.8034	0.022488	0.999865
Fscn1	0.786253	0.022606	0.999865
Kdmea6	-0.58081	0.023148	0.999865
Slc6a4	0.809016	0.023565	0.999865
Zbtb10	-0.80948	0.023893	0.999865
Il17rb	-0.79529	0.023995	0.999865
Serpinb10	0.808092	0.02413	0.999865
Rnf19b	0.685265	0.024173	0.999865
Arhgef18	-0.80123	0.024479	0.999865
Spry2	-0.8044	0.024638	0.999865
Blnk	-0.69328	0.024764	0.999865
Rag1	-0.61657	0.025109	0.999865
H2-Q6	-0.74847	0.025353	0.999865
Ddx58	-0.78859	0.025373	0.999865
Aim2	-0.78793	0.025483	0.999865
Ppp1r9a	-0.78092	0.025556	0.999865
Slc15a3	0.798302	0.025741	0.999865
Slnf4	-0.79842	0.025865	0.999865
Cd8a	0.744153	0.025884	0.999865
Ephb2	-0.78048	0.026208	0.999865
Rps26	0.713947	0.026527	0.999865
Oxr1	0.586501	0.027043	0.999865
Tjp1	0.696471	0.027052	0.999865
Trem1	0.78322	0.027305	0.999865
Pyroxd2	-0.75089	0.027732	0.999865
Ppp3cc	-0.78016	0.028217	0.999865
Ltcam	0.757053	0.028398	0.999865
Trpm5158	0.752149	0.028436	0.999865
Bmp2k1	0.662722	0.028493	0.999865
Col1a1	-0.66857	0.028684	0.999865
Scnn1a	-0.75714	0.028817	0.999865
Setbp1	-0.70659	0.028847	0.999865

Gene Symt	Log2 Fold	p Value	FDR Adj p Value
Nirc5	-0.77438	0.028955	0.999865
Tpt1	-0.70883	0.029022	0.999865
Kor	-0.73617	0.029141	0.999865
Z610307P1	-0.77093	0.029153	0.999865
Car8	0.713002	0.029521	0.999865
B430010I2	-0.76849	0.029745	0.999865
Scd1	0.764462	0.029982	0.999865
Nav2	-0.74536	0.029998	0.999865
Sphk1	0.753421	0.030034	0.999865
Cd22	-0.62289	0.030056	0.999865
Lpcat2	-0.66275	0.030142	0.999865
Rbm47	-0.77605	0.030344	0.999865
Sox4	-0.69948	0.030481	0.999865
H60b	0.767993	0.03079	0.999865
Cdh1	-0.76922	0.03183	0.999865
Klf12	-0.66023	0.032078	0.999865
Cx3cr1	-0.75908	0.032197	0.999865
Agr1a	-0.66915	0.032295	0.999865
Ear6	-0.6772	0.032378	0.999865
Pbx1	0.601555	0.032553	0.999865
Kcnk12	-0.67847	0.032627	0.999865
Gng11	0.748426	0.032704	0.999865
Timp3	0.755182	0.032748	0.999865
Pdcd4	-0.76286	0.033264	0.999865
Vill	-0.73139	0.033267	0.999865
Sepp1	-0.7591	0.033315	0.999865
Adam11	0.741767	0.033371	0.999865
Mmp8	-0.72247	0.033431	0.999865
Trpm178	-0.5878	0.033482	0.999865
Ptgr1	-0.66584	0.033556	0.999865
Alox5	0.701237	0.034218	0.999865
Pcdh7	0.735999	0.034264	0.999865
A430078G2	-0.75819	0.034283	0.999865
Jak2	0.551509	0.034383	0.999865
Naip2	-0.60787	0.034538	0.999865
Vps13c	-0.71238	0.034706	0.999865
Seil	-0.70295	0.034778	0.999865
Apol7e	-0.59169	0.035002	

Jund	-0.90097	0.01088	0.999865
Ptma	-0.90609	0.010923	0.999865

Sytl2	-0.67651	0.028907	0.999865
Parp8	-0.74829	0.028947	0.999865

Rgs3	-0.69404	0.044721	0.999865
Slc28a2	-0.66029	0.04482	0.999865

Fig. 1C Oxr1 expression
Lin- murine bone marrow cells

wt	CML		CML+IM	CML+IM & YM155	CML+IM+ Embelin		Long TFR mice	Short TFR mice		CML relapse- CP	CML relapse- BC
736.3	25778.7		653.2	995.6	365.4		1034.3	522.3		15022.9	286.7
939.8	23388.5		687.3	1013.5	321.4		867.8	469.9		12937.4	232.7
894.7	23591.0		618.4	984.3	305.4		989.6	603.9		13412.2	240.4

Fig. 2A

Secondary recipients: Chronic phase relapse			Secondary recipients: Blast crisis			Secondary recipients: Survival		
Total CP Log-Rank	event	weeks	Total BC Log-Rank	event	weeks	Total Survival Log-Rank	Events	Weeks
ShControl+saline	1	6	ShControl+saline	1	9	ShControl+saline	1	7
ShControl+saline	1	6	ShControl+saline	1	9	ShControl+saline	1	8
ShControl+saline	1	7	ShControl+saline	1	10	ShControl+saline	1	9
ShControl+saline	1	8	ShControl+saline	1	12	ShControl+saline	1	9
ShControl+saline	1	9	ShControl+saline	0	13	ShControl+saline	1	10
ShControl+saline	1	9	ShControl+saline	0	13	ShControl+saline	1	10
ShControl+saline	1	9	ShControl+saline	0	13	ShControl+saline	1	11
ShControl+saline	1	10	ShControl+saline	0	13	ShControl+saline	1	11
ShControl+saline	1	10	ShControl+saline	0	13	ShControl+saline	1	12
ShControl+saline	1	12	ShControl+saline	0	13	ShControl+saline	1	13
shControl+IM	1	15	shControl+IM	1	16	shControl+IM	1	16
shControl+IM	1	22	shControl+IM	1	24	shControl+IM	1	24
shControl+IM	1	26	shControl+IM	0	36	shControl+IM	1	28
shControl+IM	1	30	shControl+IM	0	36	shControl+IM	1	32
shControl+IM	0	36	shControl+IM	0	36	shControl+IM	0	36
shControl+IM	0	36	shControl+IM	0	36	shControl+IM	0	36
shControl+IM	0	36	shControl+IM	0	36	shControl+IM	0	36
shControl+IM	0	36	shControl+IM	0	36	shControl+IM	0	36
shControl+IM	0	36	shControl+IM	0	36	shControl+IM	0	36
shControl+IM	0	36	shControl+IM	0	36	shControl+IM	0	36
shOxr1+saline	1	6	shOxr1+saline	1	7	shOxr1+saline	1	7
shOxr1+saline	1	8	shOxr1+saline	1	8	shOxr1+saline	1	8
shOxr1+saline	1	9	shOxr1+saline	1	8	shOxr1+saline	1	9
shOxr1+saline	1	10	shOxr1+saline	1	10	shOxr1+saline	1	10
shOxr1+saline	1	10	shOxr1+saline	1	10	shOxr1+saline	1	10
shOxr1+saline	1	10	shOxr1+saline	0	12	shOxr1+saline	1	10
shOxr1+saline	1	10	shOxr1+saline	0	12	shOxr1+saline	1	11
shOxr1+saline	1	11	shOxr1+saline	0	12	shOxr1+saline	1	11
shOxr1+saline	1	11	shOxr1+saline	0	12	shOxr1+saline	1	11
shOxr1+saline	0	12	shOxr1+saline	0	12	shOxr1+saline	1	12
shOxr1+IM	1	14	shOxr1+IM	1	13	shOxr1+IM	1	13
shOxr1+IM	1	16	shOxr1+IM	1	15	shOxr1+IM	1	16
shOxr1+IM	1	23	shOxr1+IM	1	22	shOxr1+IM	1	22
shOxr1+IM	1	24	shOxr1+IM	1	26	shOxr1+IM	1	25
shOxr1+IM	1	30	shOxr1+IM	0	36	shOxr1+IM	1	27
shOxr1+IM	0	36	shOxr1+IM	0	36	shOxr1+IM	1	31
shOxr1+IM	0	36	shOxr1+IM	0	36	shOxr1+IM	0	36
shOxr1+IM	0	36	shOxr1+IM	0	36	shOxr1+IM	0	36
shOxr1+IM	0	36	shOxr1+IM	0	36	shOxr1+IM	0	36
shOxr1+IM	0	36	shOxr1+IM	0	36	shOxr1+IM	0	36
shOxr1+IM	0	36	shOxr1+IM	0	36	shOxr1+IM	0	36

Fig. 2B

Secondary recipient: Bcr-abl transcripts				Tertiary recipient: Relapse		
CML shControl	CML shOxr1	CML shControl	CML shOxr1	3rd recipients: Relapse	Event	weeks
+saline	+saline	+IM	+IM	shControl	1	14
10032.13	16771.58	2.84	26.87	shControl	1	17
33961.7	25352.38	3.13	40.94	shControl	1	20
16321.6	11106.48	5.22	31.46	shControl	1	24
20197.37	32178.38	4.07	23.92	shControl	0	28
24294.8	20190.97	2.67		shControl	0	28
19278.79	18425.06	3.11		shControl	0	28
25256.89	26264.8			shControl	0	28
19121.3	17060.06			shControl	0	28
17642.1	34000.86			shControl	0	28
16503.3	15130.46			shControl	0	28
				shOxr1	1	7
				shOxr1	1	8
				shOxr1	1	8
				shOxr1	1	10
				shOxr1	1	13
				shOxr1	1	15
				shOxr1	1	20
				shOxr1	1	22
				shOxr1	0	28
				shOxr1	0	28

Emergency granulopoiesis in CML mice in remission: Chronic phase relapse

Emergency granulopoiesis in CML mice in remission: Blast crisis

Emergency & CML mice in

[illegible]

Fig. 3B Cytokine Profiles in CML Bone Marrow during Emergency Grar

granulopoiesis in remission: Survival

Events	Weeks
1	8
1	12
1	16
0	20
0	20
0	20
0	20
0	20
0	20
1	6
1	8
1	9
1	11
1	12
1	13
1	14
1	15
1	6
1	9
1	11
1	15
0	20
0	20
0	20
0	20
1	3
1	5
1	6
1	7
1	8
1	9
1	9
1	11

G-CSF	CML shControl				
PBS	34	29	22	36	56
+ Alum 12h	216	194	226	238	913
+ Alum 4d	82	94	78	69	332

IL-6	CML shControl				
PBS	11	9	13	12	19
+ Alum 12h	106	99	103	87	340
+ Alum 4d	29	22	25	16	178

IL-1β	CML shControl				
PBS	7	13	8	11	16
+ Alum 12h	51	68	49	77	159
+ Alum 4d	12	21	17	19	55

TNF-α	CML shControl				
PBS	9	4	7	5	26
+ Alum 12h	49	37	53	41	149
+ Alum 4d	13	9	15	11	53

ulopoiesis

CML shOxr1		
47	39	64
835	708	863
318	276	404

CML shOxr1		
14	17	11
265	305	376
121	133	169

CML shOxr1		
18	20	26
139	191	197
62	37	58

CML shOxr1		
16	21	15
91	127	87
49	53	47

Fig. 4B

OXR1 expression
CML patients: long vs short TFR

Total OXR1

Long TFR	Short TFR
5961.06	1677.58
6087.42	1535.38
6026.87	1606.48
4197.37	2178.38
4294.80	2190.97
4278.49	2425.06
4256.89	2264.80
	1060.06
	1000.86
	1030.46

Short-OXR1 (%)

Long TFR	Short TFR
6.84	10.87
7.13	10.94
7.22	10.46
7.07	13.92
2.67	14.09
3.11	13.31
2.67	13.75
	15.62
	16.95
	16.47

Fig. 4C

Oxr1 expression
Lin- murine bone marrow cells

Oxr1-Short

wt-short	wt+alum	CML	CML+alum	IM+YM155	IM+Embelin	Long TFR	Short TFR	CML relapse in CP	BC-relapse	untreated CML
145.4	260.6	386	1198.5	327.6	404.5	395.8	319.1	2092.7	823.50	3130.5
141.1	335.4	431.6	1488.4	245.8	360.3	370.4	368	1707.4	690.50	2381.8
169.7	257.3	465.7	1531.2	290.7	393.1	382.1	306.9	1722.1	679.80	2201.1
179.8	167.1	528.5	1195.2			546.2	387.6	1927	724.60	2408.9
127.2	389.8	367.8	1494.9			465.8	400.8	1986.5	699.80	2331.7

Oxr1-Long

wt-short	wt+alum	CML	CML+alum	IM+YM155	IM+Embelin	Long TFR	Short TFR	CML relapse in CP	BC-relapse	untreated CML
914.4	1604.8	903.1	1067.6	1408.5	265.9	1325.9	789.8	652.1	235.9	12648.2
838.6	1492.1	879.8	1057.8	1659.2	323	1225.2	803.1	708.6	247	11706.7
924.3	1594.6	903.1	1027.3	1515.7	320.4	1339.1	680.7	662.8	213.4	13889.8
986.2	1629.4	989.5	1069.3			1631.3	589.2	636.1	187	13142.4
843.5	1413.6	993.1	992.4			1516.9	466.6	614.7	179	16209.6

Fig. 4D

Western Blot

	OXR1-Long	OXR1-Short
wt -	1.1579	0.118
wt + alum	2.3275	0.5191
CML	0.9457	0.3244
CML + alum	1.5072	2.2325
CML relapse-	0.8073	1.4398

Fig. 4E

Oxr1-short (%) in CML vesus non-CML stem/progenitor cells

Oxr1-short	wt				CML			
stem cells	28.09	26.77	23.34	25.37	44.16	53.03	43.42	45.92
Progenitors	10.64	12.38	13.1	12.44	16.53	15.16	14.27	18.94

Fig.5A

Cellular ROS in LSKs

wt + saline	wt + alum	CML + IM + saline	CML + IM + alum	CML relapse in CP
264	764	382	2451	4617
273	802	369	2294	4231
302	713	403	2663	3829

Mito ROS in LSKs

wt + saline	wt + alum	CML + IM + saline	CML + IM + alum	CML relapse in CP
1065	1927	2510	4744	7471
1324	2061	2611	5698	7610
1157	1785	2814	4407	6523

γ-H2AX positive LSKs

wt + saline	wt + alum	CML + IM + saline	CML + IM + alum	CML relapse in CP
5.3	12.5	11.4	25.6	47.9
4.62	10.7	13.9	27.8	42.1
6.14	11.3	14.2	29.3	40.6

Fig 5C

Western Blot

	OXR1-Long	OXR1-Short
CML+shControl	1.000	0.283
CML+shControl+alum	1.100	1.296
CML+shOxr1	0.508	0.132
CML shOxr1+alum	0.715	1.044
CML + Oxr1-short	1.142	1.170
CML + Oxr1-short+alum	0.970	1.568
CML + shOxr1-Long	0.333	0.390
CML + shOxr1-Long+alum	0.306	1.257

Fig. 5B

Cellular ROS in LSKs

CML shControl + saline	CML shControl + alum	CML shOxr1 + saline	CML shOxr1 + alum	CML Oxr1-Short + saline	CML Oxr1-Short + alum	CML shOxr1-Long + saline	CML shOxr1-Long + alum
371	1089	479	2855	466	1834	608	8138
405	972	503	3015	428	2098	677	8924
359	1128	574	2768	407	2312	702	7912

Mito ROS in LSKs

CML shControl + saline	CML shControl + alum	CML shOxr1 + saline	CML shOxr1 + alum	CML Oxr1-Short + saline	CML Oxr1-Short + alum	CML shOxr1-Long + saline	CML shOxr1-Long + alum
204	751	389	4186	499	2084	569	5583
267	686	365	4567	403	2564	608	4985
301	721	401	3988	398	2185	629	5721

rH2Ax

CML shControl + saline	CML shControl + alum	CML shOxr1 + saline	CML shOxr1 + alum	CML Oxr1-Short + saline	CML Oxr1-Short + alum	CML shOxr1-Long + saline	CML shOxr1-Long + alum
8.45	29.2	17	55.1	12.5	53.8	20.5	61.2
10.3	31.6	15.6	56.3	14.3	49.3	23.3	64.9
12.4	32.4	14.9	60.1	15.2	45.3	19.4	69.1

Fig. 6B

Western Blot

	OXR1-Long	OXR1-Short
CML+saline	0.6075	0.0733
CML+saline+mOxr1-S	0.702	0.5608
CML+saline+mOxr1-L	1.0932	0.1715
CML+alum	1.0484	0.8503
CML+alum+mOxr1-S	1.1244	1.046
CML+alum+mOxr1-L	1.4996	0.6119

Fig. 6C

Oxr1 expression in Lin⁻ murine bone marrow*Oxr1-Long*

CML+saline	CML+ Oxr1-s+saline	CML+ Oxr1-L+saline	CML+alum	CML+Oxr1-S+alum	CML+Oxr1-L+alum
843.12	866.7	1501.3	1085.83	923.4	1963.4
879.75	943.4	1633.2	983.72	1087.3	1903.4
903.06	897.3	1584.2	997.24	1094.6	1866.5
805.3	799.8	1604.3	1068.9	997.6	2013.5
994.3	983.2	1721.8	1413.8	1364.3	2313.3

Oxr1-Short

CML+saline	CML+Oxr1-s+saline	CML+Oxr1-L+saline	CML+alum	ML+Oxr1-S+alum	L+Oxr1-L+alum
331.2	1180.1	475.2	1315.5	2399.7	1515.5
374.96	1010.7	489.3	1659.1	2231	1722.3
468.54	1019	626.5	1706.4	2433.2	1651.1
264.2	1076.5	400	1100.4	2013.9	1154.9
348.9	1151.3	584.7	1322.6	2103	1199

Fig. 6D

Cellular ROS in LSKs

CML + saline + control	CML + saline + Oxr1-S	CML + saline + Oxr1-S + NAC	CML + saline + Oxr1-L	CML + alum + control	CML + alum + Oxr1-S	CML + alum + Oxr1-S + NAC	CML + alum + Oxr1-L
331	1371	382	352	1348	6968	970	660
299	997	413	269	973	4385	1148	498
345	1122	446	257	1109	5164	1273	648

Mito ROS in LSKs

CML + saline + control	CML + saline + Oxr1-S	CML + saline + Oxr1-S + NAC	CML + saline + Oxr1-L	CML + alum + control	CML + alum + Oxr1-S	CML + alum + Oxr1-S + NAC	CML + alum + Oxr1-L
2175	2731	2288	1531	5197	11450	6081	1941
2445	2824	2467	1428	4821	12165	6531	1824
2618	3025	2503	1603	5464	9542	7012	1370

γ-H2AX positive LSKs

CML + saline + control	CML + saline + Oxr1-S	CML + saline + Oxr1-S + NAC	CML + saline + Oxr1-L	CML + alum + control	CML + alum + Oxr1-S	CML + alum + Oxr1-S + NAC	CML + alum + Oxr1-L
13.2	24.3	17.3	8.8	34.1	58.2	31.2	18.2
15.6	22.4	18.6	10.3	32.3	51.4	34.5	20.3
14.3	25.2	15.7	11.8	33.8	60.8	35.8	19.4
11.3	20.2	16.4	10.2	31.8	49.3	29.7	21.3
12.4	22.3	15.9	13.3	29.4	44.6	30.4	20.8

Fig. 7A Mutation Detection in p210 KD

CML shControl + saline	CML shOxr1 + saline	CML shControl + alum	CML shOxr1 + alum
0	1	2	4
1	1	2	3
0	1	2	3
0	1	2	3
		3	5
			6

Fig. 7B p210 KD Mutation in CML Mice with Oxr1 Knockdown during emergency granulopoiesis

Mice		Frame Shift	Missense	Silent	Total
Group 1					
shControl + saline	m1	0			0
	m2	1			1
	m3	0			0
	m4	0			0
Group 2					
shControl + alum	m1	3			3
	m2	1	R332W		2
	m3	2			2
	m4	2			2
	m5	2			2
Group 3					
shOxr1 + saline	m1	1			1
	m2	1			1
	m3	1			1
	m4	1			1
	m5	1			1
Group 4					
shOxr1 + alum	m1	4			4
	m2	2	E505K		3
	m3	2	E505K		3
	m4	2	E505K		3
	m5	4	E505K		5
	m6	5	E505K		6

Fig. 7E Detection of p210 KD Mutation in human CML subjects

Patients		Frame Shift	Missense	Silent	Total
Short TFR patients	Patient 1				
	TKI discontinuation	2			2
	Relapse pos	4			4
	Patient 2				
	TKI discontinuation	2	A288T		3
	Relapse pos	2	T306I	1	4
	Patient 3				
	TKI discontinuation	3	Q447R		4
	Relapse pos	5	A407T		6
	Patient 4				
	TKI discontinuation	3			3
	Relapse pos	4	L323P	1	6
Long TFR patients	Patient 5				
	TKI discontinuation	3			3
	Patient 6				
	TKI discontinuation				0
	Patient 7				
	TKI discontinuation	3		1	4

Fig. 8A

WES mutation #

wt control - 30 wks	CML shControl GFP-	CML shOxr1 GFP-	wt control - 50 wks	CML shControl GFP+ CP	CML shOxr1 GFP+ CP	CML shOxr1 GFP+ BC
260	321	316	309	346	380	7255
265	355	335	324	342	410	14635
258	330	342	325	365	342	15941
						9246

WES Clone #

wt control - 30 wks	CML shControl GFP-	CML shOxr1 GFP-	wt control - 50 wks	CML shControl GFP+ CP	CML shOxr1 GFP+ CP	CML shOxr1 GFP+ BC
136	168	171	155	183	183	7087
134	180	198	168	186	242	14344
169	182	184	180	179	198	15600
						1563
						1132

Fig. 8B

shOxrl1 CP vs shControl CP			
shControl-CP *132 genes	shOxrl1-CP *175 genes	shOxrl1-CP ONLY vs shControl CP *65	shControl-CP *132 genes
1700031F05Rik	1700031F05Rik	Rik	Smc3
AS30032D15Rik	AS30032D15Rik	Adamts13	Sp110
Abcb10	Abcb10	Aldh3a2	Sp140
Acaa1b	Acaa1b	Arhgap19	Spaca7
Accs2	Accs2	Arr3	Srp2
Accs2os	Accs2os	Bicc1	Svoip1
Actr6	Actr6	BRK	Taf11
Adam5	Adam5	Cacfd1	Tarbp1
Aldh3b3	Aldh3b3	Cas21	Tbcd
Amn1	Amn1	Ccd6	Tcf7l2
Anapc7	Anapc7	Cd27	Tecpr2
Ank1	Ank1	Cd2ap	Tfb2m
Arid1b	Arid1b	Cd25c	ps
Aven	Aven	Cep63	Tmem238
BC048546	BC048546	Cfap221	Ucp3
Bdh1	Bdh1	Cfap43	Uhrf1bp1
Btln10	Btln10	Clmp	Usp36
Camk2g	Camk2g	Cuedc2	Vmn2r29
Camta1	Camta1	Dclre1a	Zfp982
Ccdc190	Ccdc190	Dlec1	Zfp984
Chp2	Chp2	DRK	Zfp991
Cln4	Cln4	Evc	Zfp992
Cmtr1	Cmtr1	Fbx15	SRK
Const	Const	Gck	Aldh3a1
Cpne5	Cpne5	Gckr	Bloc1s1
Ctf2	Ctf2	Gm595	Cagn7
Cyp21a1	Cyp21a1	Gm583	Cdh4
Cyp2c69	Cyp2c69	Gpm3	Ddx1
Cyp3a16	Cyp3a16	Hblal1	Ehd3
Decr2	Decr2	Hps4	Gm11190
Defb19	Defb19	Jag2	Lair1
Dgkg	Dgkg	Kdm4b	Lrp5
Dhx36	Dhx36	Lnpk1	Mettl25
Dnah17	Dnah17	Lvrn	Mir297c
Dock4	Dock4	Mb21d2	M54a6b
Dock5	Dock5	Mir6941	Olfir19
Dync2h1	Dync2h1	Mir8095	Pr13b1
Dynl1	Dynl1	Mir8113	Rdh5
Extl3	Extl3	Mera	Rg9
Fam178b	Fam178b	Notch4	Sec1402
Fam217b	Fam217b	Olfir23	Snhg15
Fbn1	Fbn1	Pcdh19	Ube2v
Frg1	Frg1	Rodsl	Uegf1
Gaint2	Gaint2	Pgm1d	Unc13a
Gemin5	Gemin5	Rn4.5s	
Gfra1	Gfra1	Rnaset2b	
Gigyl1	Gigyl1	Rrp12	
Glb1	Glb1	Slc43a3	
Gm13034	Gm13034	Spag17	
Gm13177	Gm13177	Spic	
Gm8978	Gm8978	Spidr	
Hsp90ab1	Hsp90ab1	Taf4b	
Iqce	Iqce	Tapbp1	
Kcnq3	Kcnq3	Tbcd104	
Kdr	Kdr	Trem2	
Klf13b	Klf13b	Tshr	
Krt85	Krt85	Ttc19	
Krt87	Krt87	Tnfr2	
Lama2	Lama2	Ttyh3	
Mfng	Mfng	Ube4b	
Myof	Myof	Vmn1r3	
Negr1	Negr1	Wrip1	
Nhs2	Nhs2	Zar11	
Nme4	Nme4	Zc2hc1b	
Obox2	Obox2	Zswim7	
Pecam1	Pecam1		
Pga5	Pga5		
Pgbd5	Pgbd5		
Pisd-ps1	Pisd-ps1		
Plau	Plau		
Pms1	Pms1		
Pom121	Pom121		
Ppme1	Ppme1		
Ppp1r3d	Ppp1r3d		
Ppy	Ppy		
Psmid14	Psmid14		
Rdh18-ps	Rdh18-ps		
Rn4.5s	Rn4.5s		
Rnd3	Rnd3		
Rnf8-cmtr1	Rnf8-cmtr1		
Rpl28	Rpl28		
Ryr3	Ryr3		
Sec23ip	Sec23ip		
Sfi1	Sfi1		
Slc35b2	Slc35b2		
Slc5a12	Slc5a12		
Slc9a5	Slc9a5		
Slco2b1	Slco2b1		

shOxrl1 BC vs shOxrl1 CP			
shOxrl1-CP *175 genes	shOxrl1-BC *1238 ONLY vs shOxrl1 CP *1097	shOxrl1-BC ONLY vs shOxrl1 CP *1097	shOxrl1-CP *175 genes
1700031F05Rik	1700031F05Rik	Rik	Ankrd12
6820408C15Rik	6820408C15Rik	Rik	Ankrd13d
AS30032D15Rik	AS30032D15Rik	Rik	Ankrd33b
Abcb10	Abcb10	Rik	Ankrd63
Acaa1b	Acaa1b	Rik	Ank1b
Accs2	Accs2	Rik	Ank3
Accs2os	Accs2os	Rik	Ankzf1
Actr6	Actr6	Rik	Apb2
Adam5	Adam5	Rik	Apcl
Aldh3a2	Aldh3a2	Rik	Arfgef2
Aldh3b3	Aldh3b3	Rik	Arhgap5
Amn1	Amn1	Rik	Arhgap5
Anapc7	Anapc7	Rik	Arhgef12
Ank1	Ank1	Rik	Arhgef17
Arid1b	Arid1b	Rik	Arhgef17
Bdh1	Bdh1	Rik	Arhgef17
Bicc1	Bicc1	Rik	Arhgef17
Btln10	Btln10	Rik	Arhgef17
C730027H18Rik	C730027H18Rik	Rik	Arhgef17
Cacfd1	Cacfd1	Rik	Arhgef17
Camk2g	Camk2g	Rik	Arhgef17
Camta1	Camta1	Rik	Arhgef17
Cas21	Cas21	Rik	Arhgef17
Ccdc190	Ccdc190	Rik	Arhgef17
Ccdc6	Ccdc6	Rik	Arhgef17
Cdc25c	Cdc25c	Rik	Arhgef17
Cep63	Cep63	Rik	Arhgef17
Cfap221	Cfap221	Rik	Arhgef17
Cln4	Cln4	Rik	Arhgef17
Cmtr1	Cmtr1	Rik	Arhgef17
Const	Const	Rik	Arhgef17
Cpne5	Cpne5	Rik	Arhgef17
Ctf2	Ctf2	Rik	Arhgef17
Cyp21a1	Cyp21a1	Rik	Arhgef17
Cyp2c69	Cyp2c69	Rik	Arhgef17
Cyp3a16	Cyp3a16	Rik	Arhgef17
Dclre1a	Dclre1a	Rik	Arhgef17
Decr2	Decr2	Rik	Arhgef17
Defb19	Defb19	Rik	Arhgef17
Dgkg	Dgkg	Rik	Arhgef17
Dhx36	Dhx36	Rik	Arhgef17
Dnah17	Dnah17	Rik	Arhgef17
Dock4	Dock4	Rik	Arhgef17
Dock5	Dock5	Rik	Arhgef17
Dync2h1	Dync2h1	Rik	Arhgef17
Dynl1	Dynl1	Rik	Arhgef17
Extl3	Extl3	Rik	Arhgef17
Fam178b	Fam178b	Rik	Arhgef17
Fam217b	Fam217b	Rik	Arhgef17
Fbn1	Fbn1	Rik	Arhgef17
Frg1	Frg1	Rik	Arhgef17
Gaint2	Gaint2	Rik	Arhgef17
Gemin5	Gemin5	Rik	Arhgef17
Gfra1	Gfra1	Rik	Arhgef17
Gigyl1	Gigyl1	Rik	Arhgef17
Glb1	Glb1	Rik	Arhgef17
Gm13034	Gm13034	Rik	Arhgef17
Gm13177	Gm13177	Rik	Arhgef17
Gm8978	Gm8978	Rik	Arhgef17
Hsp90ab1	Hsp90ab1	Rik	Arhgef17
Iqce	Iqce	Rik	Arhgef17
Jag2	Jag2	Rik	Arhgef17
Kcnq3	Kcnq3	Rik	Arhgef17
Kdr	Kdr	Rik	Arhgef17
Klf13b	Klf13b	Rik	Arhgef17
Krt85	Krt85	Rik	Arhgef17
Krt87	Krt87	Rik	Arhgef17
Lama2	Lama2	Rik	Arhgef17
Lnpk1	Lnpk1	Rik	Arhgef17
Mb21d2	Mb21d2	Rik	Arhgef17
Mfng	Mfng	Rik	Arhgef17
Mir6941	Mir6941	Rik	Arhgef17
Myof	Myof	Rik	Arhgef17
Negr1	Negr1	Rik	Arhgef17
Nhs2	Nhs2	Rik	Arhgef17
Nme4	Nme4	Rik	Arhgef17
Notch4	Notch4	Rik	Arhgef17
Obox2	Obox2	Rik	Arhgef17
Pecam1	Pecam1	Rik	Arhgef17
Pga5	Pga5	Rik	Arhgef17
Pgbd5	Pgbd5	Rik	Arhgef17
Pisd-ps1	Pisd-ps1	Rik	Arhgef17
Plau	Plau	Rik	Arhgef17
Pms1	Pms1	Rik	Arhgef17
Pom121	Pom121	Rik	Arhgef17
Ppme1	Ppme1	Rik	Arhgef17
Ppp1r3d	Ppp1r3d	Rik	Arhgef17
Ppy	Ppy	Rik	Arhgef17
Psmid14	Psmid14	Rik	Arhgef17
Rdh18-ps	Rdh18-ps	Rik	Arhgef17
Rn4.5s	Rn4.5s	Rik	Arhgef17
Rnd3	Rnd3	Rik	Arhgef17
Rnf8-cmtr1	Rnf8-cmtr1	Rik	Arhgef17
Rpl28	Rpl28	Rik	Arhgef17
Ryr3	Ryr3	Rik	Arhgef17
Sec23ip	Sec23ip	Rik	Arhgef17
Sfi1	Sfi1	Rik	Arhgef17
Slc35b2	Slc35b2	Rik	Arhgef17
Slc5a12	Slc5a12	Rik	Arhgef17
Slc9a5	Slc9a5	Rik	Arhgef17
Slco2b1	Slco2b1	Rik	Arhgef17

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Ankd10	Cux1
	Ankf1	Cu7
	Ciz1	Fbxo18
	Clk2-scamp3	Fcer1g
	Cluh	Fen1
	Clvs1	Fer15
	Cms1	Fes
	Cmtm3	Egf18
	Cmtm4	Egf22
	Cnmn1	Egf5
	Cnmn2	Egfr10p
	Cnot1	Filbp
	Cnot2	Filip1l
	Cnot3	Fik1
	Cnot4	Fil1
	Cnot6l	Finc
	Cntrf	Fmo5
	Cntrna2	Fnbp1l
	Col4a3bp	Fndc3b
	Col5a1	Fndc8
	Colq	Folr2
	Copp2	Fosl1
	Coq5	Foxa1
	Coq8a	Foxb2
	Coro1b	Foxj3
	Cpa1	Foxp4
	Cpa2	Frs3
	Cpeb1	Frs3os
	Cpt1b	Fry
	Creb3l2	Fst
	Crim1	Fubp3
	Cse1l	Furin
	Csnk1a1	Fut11
	Ctdspl	Fwr2
	Ctnnd2	Fzd3
	Cul4b	G6pc3
	Cu7	Gabara
	Cux1	Gad1l
	Cyb561d2	Gab3st4
	Cygb	Gaint16
	Cyhr1	Gaint18
	Cyp26a1	Gapdhs
	Cyp26c1	Garem
	Cyp2c50	Gbf1
	Cyp2d13	Gfra2
	Cyp3a13	Gga1
	D630045J12Rik	Gib1l
	Dagla	Gilul
	Dars2	Glyatl3
	Dbp	Gm10190
	Dctcp1	Gm11190
	Ddb1	Gm11744
	Ddhd1	Gm12925
	Ddr1	Gm13830
	Ddx25	Gm14164
	Dedd2	Gm1647
	Demnd5b	Gm16793
	Der3	Gm16861
	Dgke	Gm16998
	Dgkeos	Gm21992
	Dhr45	Gm2694
	Dhx15	Gm27740
	Dhx30	Gm27775
	Dicer1	Gm44502
	Disp1	Gm4532
	Dlg3	Gna14
	Dlg4	Gnb2
	Dmd	Gng3
	Dnah7b	Gnl1
	Dnah9	Golga1
	Dnajc14	Golga2
	Dnajc15	Gp1ba
	Dnajc4	Gpatch8
	Dnm1	Gpcpd1
	Dock11	Gpd1l
	Dock3	Gpn1
	Doks	Gpr135
	Dopey1	Gpr173
	Dpcd	Gramd1a
	Dpf2	Grap
	Dpp3	Grb10
	Dpy30	Gria1
	Dpys3	Grik1
	Osel	Grik2
	Dst	Grin2b
	Dust2	Grina
	Dv2	Grm4
	Dxo	Gstm6
	Dync1h1	Gtdc1
	Dync1l2	Gzr1
	Dym1l	H2-Ab1
	Dysf	Habp2
	Eaf1	Haglr
	Eaf1g	Hsa2
	Ehd3	Hcn2
	Eif3b	Hdc5
	Eif4	Heatr5b
	Elovl3	Hecto2
	Emilin3	Hecw2
	Emi5	Herc2
	Emy	Hic1

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Esam	Hoxd11
	Esp15	Hoxd12
	Esrra	Hoxd13
	Esrrb	Hoxd3
	Ewx2	Hoxd8
	Ewsr1	Hoxd9
	Ezh2	Hpn
	Faap100	Hps3
	Fads1	Hps2
	Faf1	Hrasl5
	Faim2	Hs3st3a1
	Fam110b	Hs6st1
	Fam122b	Hsf1
	Fam150b	Hspa12a
	Fam162b	Hspa1b
	Fam172a	Hspd1
	Fam198a	Hspbl
	Fam20b	Huwe1
	Fam222b	Hyal3
	Fam46c	Hyls1
	Fam49b	Iah1
	Fam73b	ice2
	Fam83e	ifrd2
	Fam83g	lgbp1
	Fam91a1	lgbp1b
	Farp2	lgf2
	Fat4	lgf2bp2
	Fbln5	lgf2os
	Fbrs	il18bp
	Fbx4	ilk
	Fbxo18	Inf2
	Fbxo24	Inhbe
	Fbxo30	Inpp1
	Fbxo41	Ints12
	Fbxw4	Ipo4
	Fcer1g	Irf3
	Fen1	Itga1
	Fer15	Itpka
	Fes	Itsn2
	Egf18	Jakmp2
	Egfr22	Kalrn
	Egfr5	Kans3
	Egfr10p	Kat5
	Filbp	Kat6a
	Filip1l	Kat6b
	Fjx1	Kcnb2
	Fil1	Kcnc4
	Finc	Kcnd3
	Fmo5	Kcnj12
	Fnbp1l	Kcnk4
	Fndc3b	Kcnk5
	Fndc8	Kcnk9
	Folr2	Kcnma1
	Fosl1	Kcnq5
	Foxa1	Kdm2a
	Foxb2	Kdm2b
	Foxj3	Kdm3a
	Foxp4	Kdm5c
	Frs3	Kdm6a
	Frs3os	Khrp
	Fry	Klf3c
	Fst	Klfic1
	Fubp3	Klc2
	Furin	Klhl20
	Fut11	Klhl21
	Fwr2	Klhl35
	Fzd3	Klhl42
	G6pc3	Kpna4
	Gabara	Krtap19-1
	Gad1l	Krtap19-2
	Gal3st4	Krtap19-3
	Gaint16	L3hyphd
	Gaint18	L3mbt13
	Gapdhs	Lamb1
	Garem	Lamtor4
	Gbf1	Lbh
	Gfra2	Lemd3
	Gga1	Leng1
	Glib1	Leo1
	Gul	Lep
	Glyatl3	Lhfp15
	Gm10190	Lgt1
	Gm11190	Lmx1a
	Gm11744	Lomp1
	Gm12925	Lox1a
	Gm13830	Lpin3
	Gm14164	Lrfn2
	Gm1647	Lrp1
	Gm16793	Lrp5
	Gm16861	Lrrc10
	Gm16998	Lrrc16b
	Gm21992	Lrrc38
	Gm2694	Lrrc75a
	Gm27740	Lrrc75b
	Gm27775	Lsg1
	Gm44502	Ltpb3
	Gm4532	Ltk
	Gna14	Ltn1
	Gnb2	Luc7l2
	Gng3	Macf1
	Gnl1	Macrod1

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Gpd1l	Map2k4
	Gpn1	Map3k11
	Gpr135	Map3k12
	Gpr173	Map4
	Gramd1a	Map4k3
	Grap	Map7d1
	Grb10	Mapk7
	Gria1	Mark3
	Grik1	Mars
	Grik2	Mcf2l
	Grin2b	Mcm3
	Grina	Mcph1
	Grm4	Mdga1
	Gstm6	Mea1
	Gtdc1	Med13
	Gzr1	Med13l
	H2-Ab1	Med19
	Habp2	Med23
	Haglr	Med25
	Has2	Mett125
	Hcn2	Mett16
	Hdc5	Mfap4
	Heatr5b	Mfhas1
	Hecto2	Mfn1
	Hecw2	Mfsd13a
	Herc2	Mgea5
	Hic1	Mib1
	Hif1an	Micald1
	Hipk2	Mid2
	Hira	Mir107
	Hist3h2ba	Mir1195
	Hist3h2bb-ps	Mir208a
	Hmces	Mir26a-1
	Hnrnp1l	Mir297c
	Hoxd10	Mir3083
	Hoxd11	Mir3098
	Hoxd12	Mir3102
	Hoxd13	Mir320
	Hoxd3	Mir324
	Hoxd8	Mir350
	Hoxd9	Mir3572
	Hpn	Mir466f-1
	Hps3	Mir466e
	Hps2	Mir483
	Hrasl5	Mir5098
	Hs3st3a1	Mir5114
	Hs6st1	Mir5116
	Hsf1	Mir6367
	Hspa12a	Mir6418
	Hspa1b	Mir671
	Hspd1	Mir6898
	Hspbl	Mir6930
	Huwe1	Mir6939
	Hyal3	Mir6942
	Hyls1	Mir6946
	Iah1	Mir6953
	ice2	Mir6955
	ifrd2	Mir6970
	lgbp1	Mir6971
	lgbp1b	Mir6987
	lgf2	Mir6990
	lgf2bp2	Mir702
	lgf2os	Mir7048
	il18bp	Mir7060
	ilk	Mir744
	Inf2	Mir7664
	Inhbe	Mir7667
	Inpp1	Mir8114
	Ints12	Mir8115
	Ipo4	Mir877
	Irf3	Mikn1
	Itga1	Mimgt1
	Itpka	Mms19
	Itsn2	Mob4
	Jakmp2	Morn4
	Kalrn	Mov10l
	Kans3	Mpr18
	Kat5	Mpr43
	Kat6a	Mpr48
	Kat6b	Msantd2
	Kcnb2	Msantd3
	Kcnc4	Ms2
	Kcnd3	Mtcl1
	Kcnj12	Mut
	Kcnk4	Mvbl2b
	Kcnk5	Mybl1
	Kcnk9	Mybl2
	Kcnma1	Mycbp2
	Kcnq5	Mycn
	Kdm2a	Myh1
	Kdm2b	Myh2
	Kdm3a	Myh4
	Kdm5c	Myh6
	Kdm6a	Myh7
	Khrp	Myh9
	Klf3c	Myk4
	Klfic1	Myk18a
	Klc2	Myo5b
	Klhl20	Myr1
	Klhl21	Myt1l
	Klhl35	N4bp2l2

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	L3hyphd	Ndel1
	L3mbt13	Ndr4
	Lamb1	Ndufa4i2
	Lamtor4	Ndufab1
	Lbh	Ndufs2
	Lemd3	Ndufs4
	Leng1	Nefh
	Leo1	Neu1
	Lep	NF2
	Lhfp15	NHb2
	Lgt1	Ngfr
	Lmx1a	Nisch
	Lomp1	Nit2
	Lox4	Nkx2-1
	Lpin3	Nkx6-3
	Lrfn2	Nle1
	Lrp1	Nlrp4e
	Lrp5	Nmt1
	Lrrc10	Noc3l
	Lrrc16b	Nol4l
	Lrrc38	Npas1
	Lrrc75a	Npas2
	Lrrc75b	Npff
	Lsg1	Npl
	Lthg3	Nploc4
	Ltk	Nrap
	Ltn1	Nrarp
	Luc7l2	Nrf1
	Macf1	Nron
	Macrodi	Nrp2
	Magel1	Nrxn2
	Man1a	Nsmf
	Manf	Nsrp1
	Manc4	Ntn1
	Map1b	Nudt16l1
	Map2k4	Nudt4
	Map3k11	Nufip2
	Map3k12	Numa1
	Map4	Nup205
	Map4k3	Nup98
	Map7d1	Nyap1
	Mapk7	Olfr1179
	Mark3	Olfr119
	Mars	Olfr113
	Mcf2l	Olfr1423
	Mcm3	Olfr1426
	Mcph1	ps1
	Mdga1	Olfr411
	Mea1	Olfr521
	Med13	Olfr802
	Med13l	Olfr91
	Med19	Onecut1
	Med23	Opn5
	Med25	Ormdl2
	Mett125	Osbp
	Mett16	Osbp2
	Mfap4	Osbp10
	Mfhas1	Osbp9
	Mfn1	Ostf1
	Mfsd13a	Ovr1
	Mgea5	P2n3
	Mib1	P4ha3
	Micalc1	Pabpn1
	Mid2	Pacs1
	Mir107	Pak1
	Mir1195	Pak6
	Mir208a	Pakap
	Mir26a-1	Pan3
	Mir297c	Pank1
	Mir3083	Pank2
	Mir3098	Panx2
	Mir3102	Paoc
	Mir320	Papd5
	Mir324	Parp10
	Mir350	Parp11
	Mir3572	Parva
	Mir466f-1	Pat1
	Mir466e	Pax2
	Mir483	Pax5
	Mir5098	Pbrm1
	Mir5114	Pcbp3
	Mir5116	Pcdh7
	Mir6367	Pclo
	Mir6418	Pcnx3
	Mir671	Pcd4
	Mir6898	Pde4a
	Mir6930	Pde6a
	Mir6939	Pde8b
	Mir6942	Pdga
	Mir6946	Pdk1
	Mir6953	Pdzrn4
	Mir6955	Pel3
	Mir6970	Pelo
	Mir6971	Pgap2
	Mir6987	Pgk1
	Mir6990	Pgm2
	Mir702	Pgs1
	Mir7048	Phc2
	Mir7060	Phc3
	Mir744	Phf20l1

shOxr1-CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Mimgt1	Pip5k1b
	Mms19	Pisd
	Mob4	Pitx2
	Morn4	Pitx3
	Mov10l1	Plcb2
	Mpr18	Picd3
	Mpr43	Picg1
	Mpr48	Plekhh1
	Msantd2	Plod3
	Msantd3	Plxn4
	Ms2	Plnc1
	Mtc1	Pmpcb
	Mut	Pnldc1
	Mvbl2b	Pnpla7
	Mybl1	Pole2
	Mybl2	Polh
	Mycbp2	Polk
	Mycn	Poli
	Myh1	Polr3a
	Myh2	Polr3d
	Myh4	Polrmt
	Myh6	Pop5
	Myh7	Pop7
	Myh9	Ppard
	Myk4	Ppfbp1
	Myo18a	Ppie
	Myo5b	Ppi4
	Myr1	Ppp2r5d
	Myt1l	Ppp3cb
	N4bp2l2	Ppp6r3
	Naa15	Pqbp1
	Naa60	Prc1
	Nbea	Prdm16
	Ncbp3	Prdx5
	Ncor1	Prickle1
	Ndel1	Prickle4
	Ndr4	Prkab2
	Ndufa4i2	Prmt8
	Ndufab1	Proca1
	Ndufs2	Prpf8
	Ndufs4	Prpsap2
	Nefh	Prr3
	Neu1	Psd
	Nf2	Psd3
	Nfk2	Pma1
	Ngfr	Pma5
	Nisch	Psrc1
	Nl2	Ptbp2
	Nkx2-1	Ptgrn
	Nkx6-3	Ptma
	Nle1	Ptpn2
	Nlrp4e	Ptpcrap
	Nmt1	Ptpns
	Noc3l	Puf60
	Nol4l	Fus3
	Npas1	Pycr2
	Npas2	Pymg
	Npff	Qk
	Npl	R3hcc1l
	Nploc4	R3hdm2
	Nrap	Rab11b
	Nrarp	Rab11b
	Nrf1	Rab34
	Nron	Rab40c
	Nrp2	Rab6a
	Nrxn2	Rabgap1
	Nsmf	Rabgap1l
	Norp1	Rag1
	Ntn1	Ralga1a1
	Nudt16l1	Ralgapb
	Nudt4	Ralgs1
	Nufip2	Ralgs2
	Numa1	Ragef5
	Nup205	Rasgrp2
	Nup98	Rasip1
	Nyap1	Rassf2
	Ofir1179	Rb1cc1
	Ofir119	Rbck1
	Ofir13	Rbfox2
	Ofir1423	Rbfox3
	Ofir1426	Rbm15b
	ps1	Rbm26
	Ofir411	Rbm4
	Ofir521	Rbm3
	Ofir802	Rbm25
	Ofir91	Rc3h2
	Onecut1	Rela
	Opn5	Relb
	Ormd12	Rfk
	Osbp	Rgl2
	Osbp2	Rhbd12
	Osbp10	Rhobtb2
	Osbp9	Rhog
	Ostf1	Rhoh
	Oxr1	Rilp
	P2rx3	Rnf10
	P4ha3	Rnf121
	Pabpn1	Rnf126
	Pacs1	Rnf138
	Pak1	Rnf167
	Pak6	Rnf39

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Ephb1	Hira
	Ephb3	Hist3h2ba
	Ephb4	ps
	Eno4	Hif1an
	Ep300	Hipk2
	Epn2	Hmces
	Eps8	Hnmp1l
	Ercc6	Hoxd10
	Paov	Rps6ka2
	Papd5	Rps6kb2
	Parp10	Rragb
	Parp11	Rrp8
	Parva	Rspg9
	Patt1	Rspo2
	Pax2	Rtcb
	Pax5	Rtn4rl2
	Pbrm1	Rundc3a
	Pcbp3	Rwdd2b
	Pcdh7	Rwdd3
	Pclo	Rxa
	Pcnx3	Ryr1
	Pdc4	Sacm1l
	Pde4a	Safb
	Pde6a	Samd8
	Pde8b	Sarnp
	Pdgfra	Sav1
	Pdk1	Sbspon
	Pdrn4	Scaf1
	Pell3	Scamp3
	Pelo	Scd2
	Pgap2	Scd3
	Pgk1	Scmh1
	Pgm2	Scn1b
	Pgs1	Scn5a
	Phc2	Scrb
	Phc3	Sdha
	Phf20l1	Sdk2
	Phf23	Sec14l1
	Phox2a	Sec14l2
	Pl16	Sec16a
	Plk42a	Sec24c
	Pias2	Seh1l
	Pikfyve	Sema4g
	Pip5k1b	Sema5a
	Pld	Serping1
	Pltb2	Sertad2
	Pltb3	Sfl
	Plcb2	Sf3b2
	Plcd3	Sgcd
	Plg1	Sh3bp5
	Plekhh1	Sh3bp5l
	Plod3	Sh3pxd2a
	Plkxa4	Shisa9
	Plkxc1	Shmt2
	Pmpcb	Shroom2
	Pnlcd1	Sipa1l2
	Pnpla7	Six1
	Pole2	Ski
	Polh	Sklv2l
	Polk	Sltb
	Polr	Slc1a2
	Poir3a	Slc20a2
	Poir3d	Slc22a12
	Polmt	Slc22a17
	Pop5	Slc25a11
	Pop7	Slc25a14
	Ppard	Slc25a25
	Ppfibp1	Slc25a39
	Ppie	Slc25a41
	Ppil4	Slc26a11
	Ppp2r5d	Slc35a2
	Ppp3cb	Slc43a2
	Ppp6r3	Slc44a4
	Pqbp1	Slc5a10
	Prc1	Slc6a17
	Prdm16	Slc9a7
	Prdx5	Slc9a9
	Prickle1	Slico5a1
	Prickle4	Silfml1
	Prkab2	Sltl
	Prmt8	Smap2
	Proca1	Smarcb1
	Prpf8	Smarcd3
	Prpsap2	Smc1a
	Prr3	Smcr8
	Psd	Smg6
	Psd3	Smim19
	Psma1	Smo
	Psma5	Smox
	Psrc1	Smyd1
	Ptbp2	Smyd3
	Ptgrn	Snora20
	Ptma	Snrpd3
	Ptpn2	Snw8
	Ptprcap	Sobp
	Ptprs	Sorcs1
	Puf60	Sort1
	Pus3	Sosl
	Pycr2	Sox12
	Pvgm	Sox6
	Qk	Sp7
	R3hcc1l	Sp8
	R3hdm2	Spag9

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Gp1ba	Manf
	Gpatch8	Mansc4
	Gpcpd1	Map1b
	Golga1	Mageh1
	Golga2	Man1a
	Rabgap1	Srrd
	Rabgap1l	Srsf7
	Rag1	Ssrp1
	Ralgapa1	Stt18
	Ralgapb	St7
	Ralgps1	Stac3
	Ralgps2	Stau2
	Rapgef5	Sulf1
	Rargrp2	Supt16
	Rasip1	Supt7l
	Rassf2	Suv420h1
	Rb1cc1	Syne1
	Rbck1	Syngap1
	Rbfox2	Synpo2l
	Rbfox3	Syp12
	Rbm15b	Syt7
	Rbm26	Syt14
	Rbm4	T2
	Rbms3	Taf1
	Rbpmc2	Taldo1
	Rc3h2	Tanc2
	Reep2	Taok1
	Rga	Tapbp
	Rfk	Tarbp2
	Rgl2	Tbc1d12
	Rhbd12	Tbc1d16
	Rhobtb2	Tbc1d20
	Rhog	Tbc1d23
	Rhoh	Tbc1d31
	Rilp	Tcerg1
	Rnf10	Tcf12
	Rnf121	Tcp1
	Rnf126	Tecta
	Rnf138	Terb1
	Rnf167	Tex40
	Rnf39	Tfap2b
	Robo3	Tfap2d
	Rpg	Tfap4
	Rpe65	Tfz
	Rpl18	Tfip11
	Rps3	Tgfb1r1
	Rps6ka2	Tgtp1
	Rps6kb2	Thap2
	Rragb	Tial1
	Rrp8	Tiam1
	Rspg9	Tigd3
	Rspo2	Timp2
	Rtcb	Tll2
	Rtn4rl2	Tm9sf1
	Rundc3a	Tmem115
	Rwdd2b	Tmem129
	Rwdd3	Tmem131
	Rxa	Tmem132e
	Ryr1	Tmem136
	Sacm1l	Tmem147
	Safb	Tmem185a
	Samd8	Tmem258
	Sarnp	Tmem56
	Sav1	Tmem63b
	Sbspon	Tmpo
	Scaf1	Tmsb10
	Scamp3	Tmtc2
	Scd2	Tmx2
	Scd3	Tnks1bp1
	Scmh1	Tnn
	Scn1b	Tnpo3
	Scn5a	Tnr
	Scrb	Tnrc6a
	Sdha	Tns3
	Sdk2	Top1
	Sec14l1	Top3a
	Sec14l2	Tpr
	Sec16a	Traf4
	Sec24c	Trappc8
	Seh1l	Trappc9
	Sema4g	Trim10
	Sema5a	Trim11
	Serping1	Trim9
	Sertad2	Trmt112
	Sf1	Trpc2
	Sf3b2	Trpm5
	Sgcd	Trps1
	Sh3bp5	Trpv2
	Sh3bp5l	Tsc22d2
	Sh3pxd2a	Tspyl2
	Shisa9	Ttc37
	Shmt2	Ttc39c
	Shroom2	Tut1
	Sipa1l2	U2surp
	Six1	Ube2h
	Ski	Ubf1d1
	Sklv2l	Ubqln2
	Sltb	Ufl1
	Slc1a2	Uggt1
	Slc20a2	Usp13
	Slc22a12	Usp31
	Susp31	Usp44
	Susp54	Usp54
	Susp7	Usp7
	Susp8	Uxs1
	Spag9	Vav2

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Krtap19-1	P16
	Krtap19-2	Ncbp3
	Krtap19-3	Ncor1
	Klhl42	Naa15
	Kpna4	Naa60
	Slc25a39	Vcl
	Slc25a41	Vdac2
	Slc26a11	Vegfa
	Slc35a2	Vegfb
	Slc43a2	Vezf1
	Slc44a4	Vmp1
	Slc5a10	Vprbp
	Slc6a17	Vps13a
	Slc9a7	Vps33b
	Slc9a9	Vps39
	Slico5a1	Vps8
	Silfml1	Vsig2
	Slt1	Vsig8
	Smap2	Vstm2b
	Smarcb1	Vt11a
	Smarcd3	Vwce
	Smc1a	Wdr20rt
	Smcr8	Wnk2
	Smg6	Wtip
	Smim19	Xdh
	Smo	Xkr4
	Smox	Xkr7
	Smyd1	Xntrpc
	Smyd3	Xpo5
	Snora20	Xpr1
	Snrpd3	Xrn1
	Smx8	Xylb
	Sobp	Ypel5
	Sorcs1	Zbtb17
	Sort1	Zbtb26
	Sosl	Zbtb34
	Sox12	Zbtb48
	Sox6	Zbtb6
	Sp7	Zbtb9
	Sp8	Zdhc1
	Spag9	Zdhc16
	Spata13	Zdhc5
	Spen	Zdhc6
	Sphk2	Zfc3h1
	Spm	Zfx4
	Srp2	Zfp366
	Srd	Zfp39
	Srsf7	Zfp444
	Ssrp1	Zfp526
	St18	Zfp553
	St7	Zfp663
	Stac3	Zfp768
	Stau2	Zfp771
	Sulf1	Zfp800
	Supt16	Zfpm2
	Supt7l	Zkscan3
	Suv420h1	Zmym2
	Syme1	Zmym3
	Syngap1	Znhit1
	Sympo2l	Znr3
	Syp12	Zswim8
	Syt7	Zxc
	Syt4	Zlk2a
	T2	Pias2
	Taf1	Phf23
	Taldo1	Phox2a
	Tanc2	Pikfyve
	Taok1	Rpe65
	Tapbp	Rpl18
	Tarbp2	Rps3
	Tbc1d12	Robo3
	Tbc1d16	Rp9
	Tbc11b	Spata13
	Rab11b	Spen
	Rab34	Sphk2
	Rab40c	Srm
	Rab6a	Srp2
	Slc25a14	Uxs1
	Slc25a25	Vav2
	Tbc1d20	Nbea
	Tbc1d23	
	Tbc1d31	
	Tcerg1	
	Tcf12	
	Tcp1	
	Tecta	
	Terb1	
	Tex40	
	Tfap2b	
	Tfap2d	
	Tfap4	
	Tfz	
	Tfip11	
	Tgfb1r1	
	Tgtp1	
	Thap2	
	Tial1	
	Tiam1	
	Tigd3	
	Timp2	
	Tll2	
	Tm9sf1	
	Tmem115	

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Mir8114	
	Mir8115	
	Mir877	
	Mir7664	
	Mir7667	
	Mkin1	
	Pank1	
	Pank2	
	Pank2	
	Pakap	
	Pan3	
	Tmpo	
	Tmsb10	
	Tmtc2	
	Tmx2	
	Tnks1bp1	
	Tnn	
	Tnpo3	
	Tnr	
	Tnrc6a	
	Tns3	
	Top1	
	Top3a	
	Tpr	
	Traf4	
	Trappc8	
	Trappc9	
	Trim10	
	Trim11	
	Trim9	
	Trmt112	
	Trpc2	
	Trpm5	
	Trps1	
	Trpv2	
	Tsc22d2	
	Tspyl2	
	Ttc37	
	Ttc39c	
	Tut1	
	U2surp	
	Ube2h	
	Ubf1d1	
	Ubqln2	
	Ufl1	
	Uggt1	
	Usp13	
	Usp31	
	Usp44	
	Usp54	
	Usp7	
	Uxs1	
	Vav2	
	Vcl	
	Vdac2	
	Vegfa	
	Vegfb	
	Vezf1	
	Vmp1	
	Vprbp	
	Vps13a	
	Vps33b	
	Vps39	
	Vps8	
	Vsig2	
	Vsig8	
	Vstm2b	
	Vt11a	
	Vwce	
	Wdr20rt	
	Wnk2	
	Wtip	
	Xdh	
	Xkr4	
	Xkr7	
	Xntrpc	
	Xpo5	
	Xpr1	
	Xrn1	
	Xylb	
	Ypel5	
	Zbtb17	
	Zbtb26	
	Zbtb34	
	Zbtb48	
	Zbtb6	
	Zbtb9	
	Zdhc1	
	Zdhc16	
	Zdhc5	
	Zdhc6	
	Zfc3h1	
	Zfx4	
	Zfp366	
	Zfp39	
	Zfp444	
	Zfp526	
	Zfp553	
	Zfp663	
	Zfp768	
	Zfp771	
	Zfp800	
	Zfpm2	
	Zkscan3	

shOxr1- CP *175 genes	shOxr1-BC *1238 genes	shOxr1 BC ONLY vs shOxr1 CP *1097
	Zxc	
	Tmem129	
	Tmem131	
	Tmem132e	
	Tmem136	
	Tmem147	
	Tmem185a	
	Tmem258	
	Tmem56	
	Tmem63b	
	Zmym2	
	Zmym3	
	Znhit1	
	Znr3	
	Zswim8	