A.

B.

C.
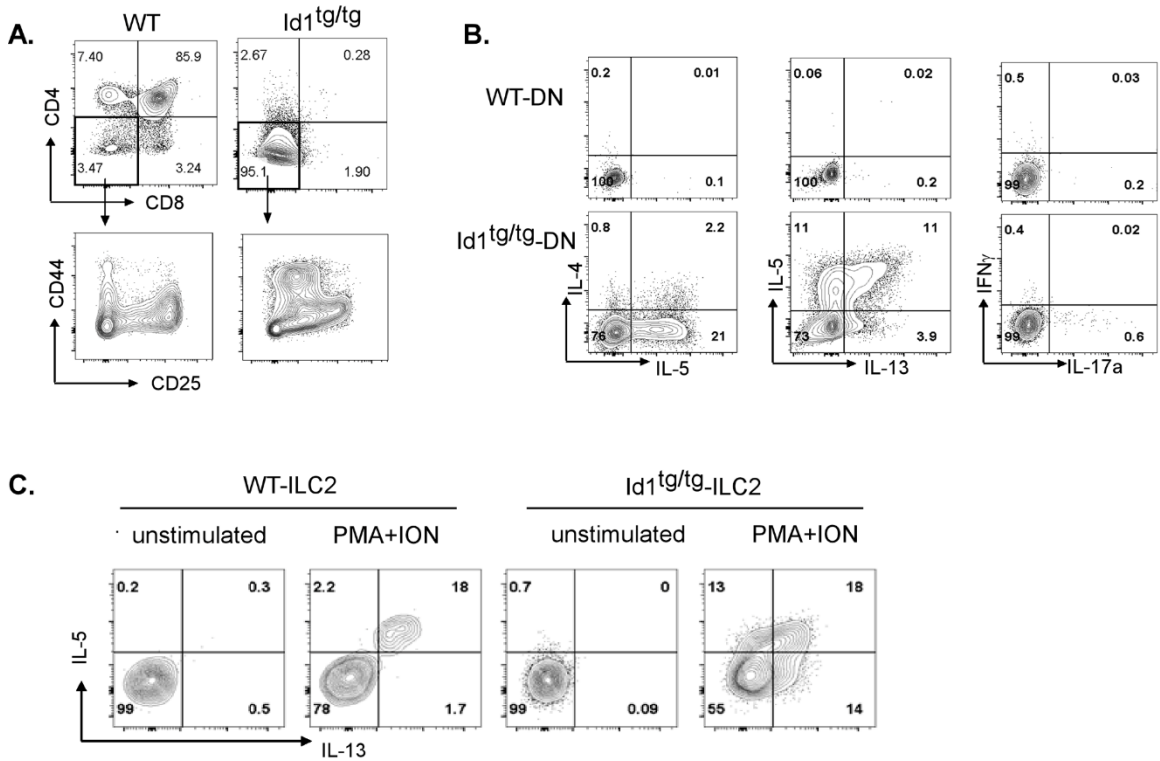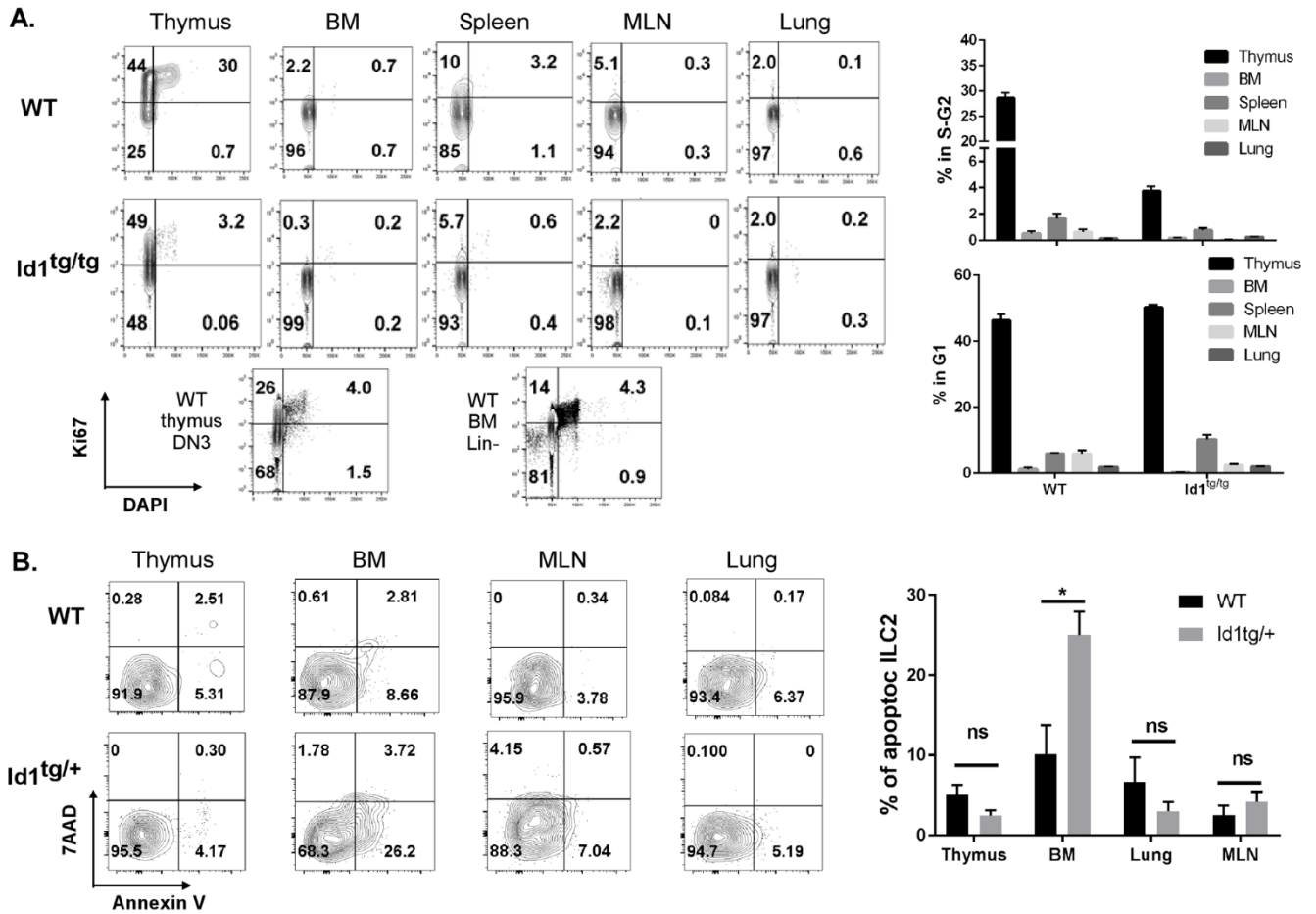

Supplemental Figure 1. Id1 transgenic thymocytes are capable of producing type 2 cytokines.
(A) The developmental profiles were determined by staining for CD4, CD8, CD44 and CD25 in thymocytes negative for B220, Mac-1, Gr-1, TCRγδ and NK1.1. The CD4 and CD8 double negative subset was further analyzed for CD44 and CD25 expression. (B) Total thymocytes from WT and Id1tg/tg mice were stimulated with 500 ng/ml of ionomycin, 50 ng/ml PMA and monensin for 4 h. The CD4-CD8-B220-DX5- fraction was analyzed for the expression of indicated cytokines after intracellular staining with the Cytofix/Cytoperm Kit (BD Biosciences). (C) IL-5 and IL-13 production by thymic ILC2s (Lin-Thy1+ST2+) after stimulated as in (B). Data are representative of two independent experiments.

Supplemental Figure 2. Augmented ILC2 counts in Id1 transgenic ILC2s are not due to increased proliferation or survival

(A) ILC2s in indicated tissues of WT and Id1$^{tg/tg}$ mice were stained intracellularly for Ki67 and DAPI along with antibodies described for Fig. 2B. Lin$^-$Thy1$^+$ST2$^+$ cells were gated to analyze Ki67 and DAPI fluorescence. Analyses of WT DN3 thymocytes and Lin$^-$ bone marrow cells served as controls for cycling cells. Numbers show the percentage in each quadrant. Ki67$^+$DAPI$^+$ cells are considered to be in S-G2 phases of the cell cycle whereas Ki67$^+$DAPI$^-$ mark cells in the G1 phase. Average percentages are shown in the bar graphs (n=3). Data are representative of two independent experiments. (B) ILC2s in indicated tissues of WT and Id1^{tg} mice were stained with Annexin V and 7AAD along with antibodies described for Fig. 2B. Annexin-V$^+$7AAD$^-$ cells are considered apoptotic. Average percentages are shown in the bar graphs (n=3 or 4). Data are representative of two independent experiments. * < 0.05.

Supplemental Table 1 Lists of genes shown in Fig. 3B

WT-ILC2-	Id1_M1	Id1_M2	Id1_T1	Id1_T2	ThyDN3_	ThyDN3_	Gene
-0.3056	-0.3782	-0.5911	0.2702	0.2795	0.3561	0.3690	Pif1
-0.2213	-0.4805	-0.5614	0.2685	0.3293	0.2943	0.3712	Ska1
-0.1881	-0.5136	-0.5501	0.2769	0.2783	0.3213	0.3753	Troap
-0.1922	-0.5008	-0.5597	0.2914	0.2741	0.3061	0.3811	Top2a
-0.1998	-0.4994	-0.5585	0.2916	0.2824	0.3349	0.3488	Spag5
-0.2062	-0.4600	-0.5823	0.2607	0.2340	0.3785	0.3752	Clspn
-0.2341	-0.4727	-0.5515	0.2639	0.2362	0.3307	0.4276	Pbk
-0.2313	-0.4934	-0.5340	0.2479	0.2538	0.3257	0.4312	Ccna2
-0.2439	-0.5128	-0.5114	0.2631	0.2593	0.3454	0.4003	Shcbp1
-0.2129	-0.5258	-0.5212	0.2941	0.2450	0.3493	0.3715	Fignl1
-0.2754	-0.5243	-0.4853	0.3099	0.3284	0.3032	0.3436	Neil3
-0.2699	-0.5448	-0.4654	0.3334	0.3180	0.2703	0.3584	Prr11
-0.3132	-0.5142	-0.4639	0.3296	0.3137	0.2724	0.3756	Rrm2
-0.2893	-0.4859	-0.5050	0.2881	0.2884	0.2767	0.4270	2810417H13Rik
-0.2891	-0.4471	-0.5443	0.2949	0.2728	0.3075	0.4053	Ncapg
-0.3162	-0.4733	-0.4954	0.2654	0.2523	0.3497	0.4175	Espl1
-0.3098	-0.4610	-0.5123	0.2606	0.2570	0.3507	0.4149	Ncaph
-0.2808	-0.4879	-0.5129	0.2766	0.2791	0.3299	0.3960	Kif4
-0.2781	-0.4628	-0.5362	0.2665	0.2584	0.3610	0.3911	Cdc6
-0.3102	-0.5282	-0.4369	0.2339	0.2667	0.3240	0.4507	Cdca3
-0.3550	-0.4569	-0.4798	0.2721	0.3054	0.2773	0.4369	Nusap1
-0.4015	-0.3673	-0.5210	0.2521	0.2647	0.3810	0.3920	Matn2
-0.4072	-0.3774	-0.5131	0.2827	0.2977	0.3217	0.3956	Kif18b
-0.3821	-0.4084	-0.4988	0.2437	0.2611	0.3528	0.4317	Cdca5
-0.4204	-0.3982	-0.4755	0.2560	0.2646	0.3428	0.4307	Cdk1
-0.4484	-0.4268	-0.4301	0.3024	0.3005	0.3108	0.3917	Ttk
-0.4105	-0.4413	-0.4534	0.2988	0.2846	0.3456	0.3761	Bub1
-0.4348	-0.4348	-0.4348	0.2787	0.2927	0.3449	0.3881	Hnf4a
-0.4434	-0.4345	-0.4172	0.2491	0.2601	0.3615	0.4244	Aurkb
-0.4460	-0.4314	-0.4185	0.2466	0.2642	0.3705	0.4146	Nek2
-0.4222	-0.4350	-0.4437	0.2700	0.2687	0.3755	0.3867	Cenpf
-0.3983	-0.4229	-0.4771	0.2790	0.2552	0.3808	0.3833	Mcoln3
-0.3756	-0.4789	-0.4444	0.2815	0.2748	0.3438	0.3989	Ckap2l
-0.3962	-0.4455	-0.4538	0.2442	0.2916	0.3275	0.4321	F630043A04Rik
-0.4088	-0.4634	-0.4341	0.3230	0.3456	0.2831	0.3546	Gm11223
-0.4381	-0.4381	-0.4308	0.3150	0.3706	0.2911	0.3304	Tmem40
-0.4020	-0.4410	-0.4643	0.3447	0.3399	0.3076	0.3151	E2f7
-0.4360	-0.4360	-0.4360	0.3521	0.3479	0.3067	0.3011	2010110K18Rik
-0.4361	-0.4361	-0.4361	0.3502	0.3315	0.2936	0.3329	Gbx2

-0.4649	-0.3619	-0.4649	0.3257	0.3974	0.2102	0.3586	Gm11832
-0.1676	-0.5985	-0.4642	0.2356	0.2513	0.3321	0.4114	Fam64a
-0.1376	-0.5519	-0.5408	0.2702	0.2987	0.2918	0.3696	Birc5
-0.1482	-0.5752	-0.5094	0.3141	0.2840	0.2593	0.3756	Hmmr
-0.1681	-0.5609	-0.5150	0.3028	0.2725	0.2984	0.3702	Casc5
-0.1315	-0.5322	-0.5656	0.3044	0.2919	0.2904	0.3426	Esco2
-0.1448	-0.5215	-0.5683	0.3180	0.2988	0.2710	0.3468	Cep55
-0.0971	-0.5368	-0.5780	0.3117	0.2783	0.3233	0.2986	Mki67
-0.0735	-0.5683	-0.5571	0.2969	0.2752	0.2916	0.3352	Cenpe
-0.0876	-0.4803	-0.6226	0.2431	0.2546	0.2757	0.4172	Ube2c
-0.0741	-0.5304	-0.5900	0.2648	0.2580	0.2987	0.3730	Kif11
-0.0771	-0.5115	-0.6016	0.2390	0.2286	0.3583	0.3643	Aspm
-0.1474	-0.5131	-0.5733	0.2868	0.2592	0.3307	0.3571	Stil
-0.1323	-0.4847	-0.6068	0.2846	0.2606	0.3266	0.3519	Sgol1
-0.1253	-0.5096	-0.5818	0.2555	0.2387	0.3241	0.3985	Kif15
-0.1523	-0.5065	-0.5686	0.2458	0.2446	0.3178	0.4192	Spc25
-0.0520	-0.5490	-0.5663	0.1955	0.2062	0.3562	0.4094	E2f2
-0.0823	-0.5393	-0.5568	0.2099	0.1697	0.3851	0.4137	Mcm10
-0.0735	-0.5758	-0.5363	0.2283	0.2152	0.3436	0.3987	Rad51
-0.0324	-0.5103	-0.6084	0.2112	0.1753	0.3640	0.4007	5730590G19Rik
-0.1001	-0.6459	-0.4369	0.2340	0.2489	0.4505	0.2496	Spns2
0.0303	-0.6237	-0.5361	0.2858	0.2586	0.2538	0.3313	E2f8
0.0076	-0.6112	-0.5409	0.3219	0.2242	0.2770	0.3213	Muc13
0.0064	-0.6704	-0.4729	0.2576	0.2507	0.3061	0.3224	Mastl
0.0187	-0.5805	-0.5699	0.3047	0.3167	0.1696	0.3406	Cenpk
0.0961	-0.5543	-0.6168	0.2145	0.2142	0.2893	0.3571	BC030867
0.0865	-0.5716	-0.5995	0.2341	0.2117	0.2833	0.3555	Kif14
0.0412	-0.5131	-0.6356	0.2269	0.1889	0.2982	0.3936	Chek1
0.1273	-0.5229	-0.6453	0.2167	0.1581	0.3213	0.3447	Kntc1
0.0903	-0.5473	-0.6099	0.1945	0.1541	0.3389	0.3794	Dtl
0.1357	-0.5893	-0.5890	0.1970	0.2210	0.2645	0.3601	Ccnb2
0.1502	-0.5901	-0.5836	0.1639	0.2330	0.2389	0.3878	Cks1b
-0.1212	-0.3561	-0.7056	0.2982	0.2539	0.3797	0.2512	Gm17356
-0.1692	-0.5141	-0.5560	0.3206	0.3399	0.3674	0.2113	2810442I21Rik
-0.2273	-0.4942	-0.4898	0.1660	0.1291	0.4440	0.4721	Blk
-0.1382	-0.5490	-0.4717	0.1161	0.1158	0.4491	0.4779	Syt13
-0.1577	-0.5085	-0.5085	0.1297	0.1420	0.5326	0.3705	Gm11579
-0.1279	-0.6024	-0.3610	0.0756	0.0328	0.4741	0.5088	Tspan2
0.0603	-0.5042	-0.5769	0.0707	0.0546	0.4633	0.4321	Gria3
0.0218	-0.4642	-0.5804	0.0658	0.0163	0.4610	0.4796	Angptl2
-0.1075	-0.4121	-0.6132	0.0789	0.1453	0.4881	0.4206	Ddc

-0.5000	-0.3690	-0.3823	0.1867	0.1634	0.4489	0.4523	Myb
-0.4945	-0.3576	-0.3537	0.1350	0.0981	0.4593	0.5135	Tmem121
-0.4497	-0.3240	-0.4467	0.1563	0.1111	0.5098	0.4432	Rab44
-0.4465	-0.3309	-0.4465	0.1810	0.0945	0.4865	0.4619	Ybx2
-0.5344	-0.2535	-0.3969	0.1128	0.1034	0.4944	0.4741	Endou
-0.4078	-0.4078	-0.4078	0.1386	0.1179	0.4668	0.5001	BC048355
-0.4148	-0.4148	-0.4148	0.1752	0.1369	0.4688	0.4634	Fads2
-0.4151	-0.4141	-0.4276	0.1885	0.1616	0.4356	0.4712	Gm5648
-0.3557	-0.4248	-0.4762	0.1918	0.1697	0.4386	0.4565	Uhrf1
-0.3978	-0.3967	-0.4592	0.1831	0.1662	0.4118	0.4927	Clec12a
-0.4224	-0.4224	-0.4224	0.2356	0.1561	0.4680	0.4073	Prtg
-0.5003	-0.5003	-0.2836	0.3049	0.2649	0.3395	0.3749	Pcyt1b
-0.4674	-0.4674	-0.3456	0.2366	0.2206	0.4135	0.4098	Dmwd
-0.4741	-0.4741	-0.2877	0.1942	0.1343	0.4627	0.4447	Gm10384
-0.4791	-0.3316	-0.4735	0.2399	0.2900	0.4484	0.3059	S1pr3
-0.4617	-0.4617	-0.3629	0.2563	0.2931	0.4657	0.2711	Hist1h2bj
-0.5674	-0.3239	-0.3847	0.2465	0.2712	0.3387	0.4196	2010317E24Rik
-0.5860	-0.3110	-0.3796	0.3025	0.2732	0.3052	0.3957	Lrr1
-0.5081	-0.3729	-0.4204	0.3053	0.3008	0.3306	0.3648	Nuf2
-0.5062	-0.2702	-0.5006	0.2597	0.2887	0.3200	0.4086	Gm6091
-0.5798	-0.3402	-0.3628	0.3366	0.3532	0.2604	0.3326	Depdc1b
-0.5753	-0.2940	-0.4131	0.3058	0.3222	0.3093	0.3449	Uchl1
-0.5160	-0.3209	-0.4390	0.2676	0.2009	0.3905	0.4167	I830077J02Rik
-0.5482	-0.2728	-0.4317	0.2361	0.1788	0.4113	0.4264	Bcl11a
-0.5194	-0.3658	-0.3982	0.2443	0.2402	0.3732	0.4257	2610002D18Rik
-0.5415	-0.3696	-0.3592	0.2210	0.2266	0.3756	0.4471	Spc24
-0.6024	-0.3054	-0.3281	0.2116	0.1749	0.4259	0.4235	Ephb2
-0.6327	-0.2640	-0.3338	0.1966	0.2320	0.3530	0.4488	Cenpm
-0.6372	-0.3824	-0.2225	0.2569	0.2568	0.3431	0.3853	Iqgap3
-0.6288	-0.3266	-0.3096	0.3102	0.2889	0.3139	0.3520	Neurl1b
-0.6217	-0.3388	-0.3027	0.2660	0.2903	0.3203	0.3866	Mxd3
-0.6207	-0.3159	-0.3274	0.2773	0.2798	0.3168	0.3901	Cdc25c
-0.6207	-0.3692	-0.2713	0.2948	0.3022	0.2777	0.3865	Ccnb1
-0.6620	-0.3406	-0.2403	0.3389	0.3066	0.2801	0.3173	Slc45a3
-0.5957	-0.3771	-0.2898	0.3335	0.2002	0.3959	0.3330	Olfr524
-0.6899	-0.2253	-0.3057	0.2598	0.2810	0.3081	0.3721	Kif2c
-0.6640	-0.2321	-0.3418	0.2717	0.2821	0.3647	0.3194	Ankle1
-0.7441	-0.2249	-0.2056	0.2465	0.2543	0.3130	0.3608	Ccnf
-0.7375	-0.1942	-0.2514	0.2755	0.2490	0.3149	0.3437	Rad51ap1
-0.5645	-0.3398	-0.2892	0.1295	0.1123	0.4724	0.4793	Gpr56
-0.5917	-0.3222	-0.2729	0.1307	0.1170	0.4741	0.4649	Epb4.1l4b

-0.5700	-0.3373	-0.2381	0.0947	0.0584	0.4963	0.4960	Evpl
-0.6988	-0.2059	-0.1603	0.0856	0.0478	0.4715	0.4601	Actn1
-0.3153	-0.1014	-0.1169	-0.3153	-0.3153	0.5891	0.5751	Scn4b
-0.3752	-0.0373	-0.0015	-0.3174	-0.3752	0.5979	0.5088	Lipg
-0.1259	-0.0928	-0.0966	-0.3810	-0.4307	0.5778	0.5492	Spib
-0.0991	-0.2678	-0.2331	-0.3214	-0.2564	0.6144	0.5635	Xist
-0.0852	-0.2732	-0.2732	-0.2732	-0.2732	0.6042	0.5737	Fam163b
-0.2373	-0.2373	-0.2373	-0.2373	-0.2373	0.6782	0.5083	Gm14236
-0.2637	-0.2637	-0.2637	-0.1265	-0.2637	0.6533	0.5282	Vwce
-0.2548	-0.1727	-0.2548	-0.2548	-0.2548	0.5796	0.6121	Hmgcs2
-0.2390	-0.2390	-0.2390	-0.2390	-0.2390	0.5910	0.6041	Spats2
-0.2390	-0.2390	-0.2390	-0.2390	-0.2390	0.6118	0.5832	Camkv
-0.2390	-0.2390	-0.2390	-0.2390	-0.2390	0.6113	0.5837	Fbln2
-0.2390	-0.2390	-0.2390	-0.2390	-0.2390	0.6106	0.5844	A930002I21Rik
-0.2396	-0.2396	-0.2368	-0.2396	-0.2396	0.5983	0.5969	Ptcra
-0.2390	-0.2390	-0.2390	-0.2390	-0.2390	0.6053	0.5898	Gm525
-0.2396	-0.2396	-0.2396	-0.2396	-0.2367	0.6030	0.5922	Myzap
-0.2088	-0.2443	-0.2141	-0.2410	-0.2844	0.6133	0.5795	Notch3
-0.2387	-0.2387	-0.2387	-0.2387	-0.2387	0.6337	0.5599	Slc5a9
-0.2385	-0.2385	-0.2385	-0.2385	-0.2385	0.6427	0.5500	Adamtsl2
-0.2389	-0.2389	-0.2389	-0.2389	-0.2389	0.6222	0.5723	Odz1
-0.2389	-0.2389	-0.2389	-0.2389	-0.2389	0.6240	0.5704	Rtkn
-0.2388	-0.2388	-0.2388	-0.2388	-0.2388	0.6269	0.5673	Kcnh3
-0.2388	-0.2388	-0.2388	-0.2388	-0.2388	0.6261	0.5682	Cldn4
-0.2888	-0.1540	-0.2888	-0.1624	-0.2888	0.5985	0.5843	Tdrd5
-0.2630	-0.2630	-0.1796	-0.2231	-0.2630	0.6097	0.5820	Uaca
-0.2567	-0.2567	-0.1671	-0.2567	-0.2541	0.5868	0.6045	2010001M09Rik
-0.3069	-0.2515	-0.0951	-0.2195	-0.3041	0.5969	0.5801	Mst1r
-0.3840	-0.1931	-0.2408	-0.1534	-0.2048	0.5964	0.5797	Bst1
-0.4229	-0.2042	-0.1157	-0.1831	-0.2371	0.5742	0.5887	Tmem151b
-0.3094	-0.3094	-0.3094	-0.0778	-0.1603	0.6025	0.5639	Rag1
-0.3078	-0.3078	-0.3078	-0.0501	-0.1894	0.6087	0.5540	H19
-0.2926	-0.2926	-0.2926	-0.0836	-0.2134	0.6029	0.5719	Mpzl2
-0.2947	-0.2947	-0.2910	-0.0534	-0.2353	0.5853	0.5838	Lhfpl2
-0.3058	-0.3058	-0.3058	-0.0474	-0.1992	0.5699	0.5940	Trbv5
-0.3401	-0.3401	-0.2775	-0.0784	-0.1220	0.5722	0.5858	Dntt
-0.3522	-0.3522	-0.2640	-0.0407	-0.1407	0.5774	0.5723	Slc16a5
-0.3290	-0.3290	-0.3290	-0.0389	-0.1219	0.5754	0.5725	Elfn2
-0.3241	-0.3241	-0.3241	-0.0387	-0.1407	0.5874	0.5644	1810059H22Rik
-0.3216	-0.3216	-0.3216	-0.0322	-0.1558	0.5774	0.5754	C1qtnf1
-0.4104	-0.2156	-0.3280	-0.0962	-0.0977	0.5787	0.5691	Gfra1

-0.3235	-0.2539	-0.3235	-0.1131	-0.1585	0.5661	0.6065	Ly6d
-0.3092	-0.3092	-0.3092	-0.1265	-0.1152	0.5920	0.5774	Gm5111
-0.3008	-0.3008	-0.2968	-0.1452	-0.1329	0.5853	0.5913	Cpne5
-0.3110	-0.2520	-0.3071	-0.1356	-0.1730	0.6253	0.5533	Col15a1
-0.2695	-0.2695	-0.2664	-0.2695	-0.1048	0.6356	0.5442	Gm12503
-0.2675	-0.2675	-0.2640	-0.2209	-0.1707	0.6098	0.5809	Pgpep1l
-0.3986	-0.2856	-0.1840	-0.1741	-0.1236	0.5988	0.5671	A930013B10Rik
-0.3444	-0.3444	-0.2051	-0.2180	-0.0436	0.6215	0.5340	Chrna9
-0.5428	-0.2115	-0.1507	-0.1166	-0.0877	0.5807	0.5286	Pld4
-0.4982	-0.2104	-0.1387	-0.1146	-0.1729	0.5923	0.5426	Adamts17
-0.3869	-0.2919	-0.3419	-0.0421	-0.0697	0.5784	0.5541	Ptprf
-0.3454	-0.3454	-0.3454	-0.0383	-0.0544	0.5762	0.5528	Rag2
-0.3527	-0.3527	-0.3527	-0.0008	-0.0578	0.5566	0.5601	Ptk7
-0.3580	-0.3580	-0.3543	0.0152	-0.0533	0.5335	0.5748	Tubb3
-0.4397	-0.2966	-0.3164	-0.0052	-0.0519	0.5561	0.5537	Sox13
-0.3539	-0.3539	-0.3501	-0.0696	0.0168	0.5052	0.6055	Id3
-0.3907	-0.3907	-0.3907	0.0886	0.0524	0.5182	0.5127	Prss57
-0.3922	-0.3922	-0.3888	0.0878	0.0553	0.5140	0.5160	Slc43a1
-0.3747	-0.3747	-0.3747	0.0209	0.0283	0.5397	0.5351	Sstr2
0.5291	-0.4272	-0.1444	0.3699	0.3601	-0.2604	-0.4272	Stc2
0.5843	-0.3636	-0.3636	0.2930	0.3836	-0.1702	-0.3636	Igfbp7
0.5443	-0.3337	-0.1910	0.3400	0.3931	-0.4126	-0.3400	Ccr6
0.6636	-0.2962	-0.1486	0.2887	0.2617	-0.4169	-0.3523	Sox8
0.6106	-0.2929	-0.1487	0.2863	0.3437	-0.3995	-0.3995	2810468N07Rik
0.7032	-0.4078	-0.3203	0.2444	0.2440	-0.1607	-0.3027	Il1r1
0.7206	-0.3818	-0.3818	0.2452	0.2090	-0.2269	-0.1844	Mapk10
0.7577	-0.3470	-0.3419	0.1918	0.2021	-0.1867	-0.2760	Scrt1
0.7394	-0.3305	-0.3900	0.2153	0.2125	-0.2028	-0.2438	Abi3bp
0.7398	-0.2968	-0.2968	0.2094	0.2378	-0.2968	-0.2968	1700006J14Rik
0.6935	-0.3081	-0.3017	0.2941	0.2384	-0.3081	-0.3081	Tdrd9
0.7914	-0.1657	-0.2684	0.1662	0.1472	-0.3354	-0.3354	Fzd4
0.7945	-0.1855	-0.3042	0.1882	0.1248	-0.3089	-0.3089	Irg1
0.7980	-0.3179	-0.2098	0.1568	0.1533	-0.3179	-0.2625	Kcnk1
0.8159	-0.2733	-0.2679	0.1080	0.1639	-0.2733	-0.2733	Smarca1
0.7796	-0.2703	-0.1801	0.1675	0.1774	-0.3371	-0.3371	Il23r
0.7952	-0.2132	-0.1423	0.1343	0.1476	-0.3907	-0.3309	Plekhg1
0.7334	-0.2451	-0.1614	0.2167	0.2109	-0.3772	-0.3772	Upp1
0.7708	-0.4411	-0.3643	0.0905	0.0243	-0.2224	0.1423	Hspa1a
0.7373	-0.4203	-0.4963	0.1664	0.0393	0.0308	-0.0573	Lingo4
0.7428	-0.4871	-0.2879	0.1845	0.1890	-0.1644	-0.1769	Mc5r
0.6922	-0.4070	-0.4683	0.2789	0.1588	-0.1444	-0.1101	Sdc1

0.6346	-0.5840	-0.4039	0.2346	0.1864	-0.0567	-0.0110	Tox2
0.8992	-0.2280	-0.1693	-0.2280	-0.2251	0.0347	-0.0836	Gm17056
0.9062	-0.2188	-0.2219	-0.1986	-0.1934	-0.0040	-0.0694	Fosb
0.9074	-0.2091	-0.2043	-0.2091	-0.2091	-0.0586	-0.0173	4930532G15Rik
0.9186	-0.1866	-0.1823	-0.1866	-0.1866	-0.0503	-0.1263	9630028B13Rik
0.9188	-0.1756	-0.1756	-0.1756	-0.1756	-0.0411	-0.1756	Hs6st2
0.9079	-0.2479	-0.0420	-0.2479	-0.1793	-0.1138	-0.0770	Slc24a1
0.8668	-0.3352	-0.2789	-0.1856	-0.1445	0.0285	0.0488	mt-Rnr2
0.8854	-0.2661	-0.2621	-0.0360	-0.0475	-0.0035	-0.2702	Ptgs2
0.9042	-0.2840	-0.1250	-0.1775	-0.0692	-0.0266	-0.2218	Snord118
0.8702	-0.0280	-0.1182	-0.2709	-0.2709	0.0888	-0.2709	SNORA17
0.9197	-0.0485	-0.1742	-0.1742	-0.1742	-0.1742	-0.1742	Cxcl2
0.9233	-0.1674	-0.1674	-0.0862	-0.1674	-0.1674	-0.1674	Il22
0.9258	-0.1543	-0.1543	-0.1543	-0.1543	-0.1543	-0.1543	Cxcl1
0.9258	-0.1543	-0.1543	-0.1543	-0.1543	-0.1543	-0.1543	Gm12473
0.9258	-0.1549	-0.1549	-0.1549	-0.1515	-0.1549	-0.1549	Zmat4
0.8875	-0.0428	-0.0760	-0.0585	-0.0880	-0.3111	-0.3111	Atf3
0.9009	-0.1349	-0.0976	-0.1104	-0.0389	-0.3375	-0.1817	Gjb2
0.3797	-0.4122	-0.6332	-0.0105	-0.0713	0.3582	0.3893	Ctla4
0.1692	-0.4067	-0.7403	0.1984	0.1950	0.2224	0.3619	Cdkn3
0.1983	-0.3574	-0.7457	0.2280	0.0072	0.3161	0.3535	Pou2af1
0.3883	-0.6554	-0.5042	0.1939	0.1216	0.1596	0.2961	Gm5465
0.4797	-0.6083	-0.5234	0.1264	0.1183	0.1233	0.2841	Gas2l3
0.4328	-0.5301	-0.6259	0.2576	0.1858	0.1428	0.1370	Auts2
0.3358	-0.5227	-0.6562	0.2499	0.1894	0.2439	0.1599	Tacstd2
0.5866	-0.6068	-0.4216	-0.0256	-0.0001	0.2375	0.2300	Dock1
0.5246	-0.6072	-0.4898	0.0515	0.1915	0.2711	0.0583	Rnf150
0.5745	-0.5802	-0.4791	0.0619	0.0509	0.3044	0.0677	Gls2
0.4332	-0.3232	-0.3232	-0.3232	-0.3232	0.5418	0.3177	Gm12913
0.4375	-0.3265	-0.3265	-0.3265	-0.3265	0.4855	0.3829	mt-Tl1
0.3568	-0.3308	-0.2693	-0.4427	-0.2308	0.5614	0.3554	Mir5115
0.4883	-0.2533	-0.2486	-0.4109	-0.3547	0.5264	0.2528	Mir5109
0.5765	-0.3228	-0.3228	-0.3228	-0.3194	0.3587	0.3527	Gm5263
0.7845	-0.2834	-0.2834	-0.2834	-0.2800	0.1205	0.2253	Gm7618
0.7407	-0.2829	-0.2294	-0.4038	-0.2528	0.2092	0.2191	Gm12420
0.0044	-0.4524	-0.4524	0.5456	0.5202	-0.0164	-0.1490	Svep1
0.3101	-0.4581	-0.4581	0.4447	0.3541	0.1705	-0.3632	Cacna1e
0.4055	-0.5457	-0.5457	0.3261	0.3539	-0.0617	0.0677	Grb10
0.1249	-0.4878	-0.6175	0.4901	0.3068	0.0082	0.1754	Lrrc66
0.3621	-0.2443	-0.7250	0.4612	0.2500	-0.0134	-0.0907	Sprn
-0.1141	-0.6483	-0.3389	0.4344	0.4362	-0.0367	0.2675	Depdc1a

0.0325	-0.4609	-0.3282	0.4806	0.5318	-0.3851	0.1293	Hhex
-0.3659	-0.3659	-0.3659	0.6079	0.4333	-0.1121	0.1687	Gm16194
-0.4179	-0.2851	-0.4179	0.5290	0.3839	-0.1416	0.3495	42257
-0.3176	-0.3176	-0.3176	0.4964	0.5460	-0.3176	0.2279	Olfr523
-0.3358	-0.3358	-0.2540	0.6018	0.5593	-0.1778	-0.0576	Clec4e
-0.3170	-0.3170	-0.3170	0.6237	0.5353	-0.1297	-0.0784	Cldn2
-0.4244	-0.2093	-0.2944	0.5854	0.5669	-0.1216	-0.1025	Gm8113
-0.2395	-0.2395	-0.2327	0.5336	0.6570	-0.2395	-0.2395	Syt6
-0.2607	-0.2607	-0.2607	0.5147	0.6664	-0.2607	-0.1383	Siglec5
-0.2626	-0.2626	-0.2626	0.5026	0.6748	-0.2626	-0.1269	Prss16
-0.2864	-0.1069	-0.2864	0.6078	0.5722	-0.2864	-0.2138	Cd34
-0.2750	-0.0824	-0.2676	0.6353	0.5396	-0.2750	-0.2750	Gcm2
-0.2388	-0.2388	-0.2388	0.6292	0.5648	-0.2388	-0.2388	Fgf3
-0.2390	-0.2390	-0.2390	0.6055	0.5897	-0.2390	-0.2390	Ripply1
-0.2390	-0.2390	-0.2390	0.6109	0.5841	-0.2390	-0.2390	Sema3c
-0.2405	-0.2405	-0.2327	0.6154	0.5794	-0.2405	-0.2405	Gm15947
-0.2390	-0.2390	-0.2390	0.6170	0.5778	-0.2390	-0.2390	Aox1
-0.2383	-0.2383	-0.2383	0.6512	0.5404	-0.2383	-0.2383	Ahsg
-0.2378	-0.2378	-0.2378	0.6669	0.5221	-0.2378	-0.2378	Ctsg
-0.2374	-0.2374	-0.2374	0.6769	0.5100	-0.2374	-0.2374	Caly
-0.2370	-0.2370	-0.2370	0.6856	0.4993	-0.2370	-0.2370	Trav14n-3
-0.4078	-0.2114	-0.4078	0.5766	0.5277	0.0277	-0.1048	Slc35d3
-0.3127	-0.3127	-0.3127	0.7026	0.4252	-0.0106	-0.1790	Gm11692
-0.2947	0.0418	-0.2947	0.5194	0.6174	-0.2947	-0.2947	Adamts2
-0.3427	-0.0422	-0.3340	0.6328	0.4968	-0.0680	-0.3427	Stbd1
-0.1874	0.0497	0.0613	0.5145	0.5020	-0.4657	-0.4745	Lgals3
-0.1692	0.0488	0.1016	0.4936	0.4949	-0.4849	-0.4849	Cx3cr1
-0.4426	0.1036	-0.0047	0.5512	0.4822	-0.4426	-0.2470	Parm1
-0.3073	-0.1526	-0.0954	0.5933	0.5765	-0.3073	-0.3073	Fam179a
-0.3610	-0.0549	-0.0382	0.5586	0.5653	-0.4033	-0.2665	Igfbp4
-0.3546	-0.1209	0.0893	0.5521	0.5434	-0.3546	-0.3546	Mmp27
-0.3696	-0.0382	0.0665	0.5516	0.5291	-0.3696	-0.3696	Lama3
-0.3843	0.0233	0.0813	0.5095	0.5387	-0.3843	-0.3843	Abhd12b
-0.4266	-0.4266	-0.4196	0.4613	0.3860	0.2748	0.1507	Morc4
-0.5206	-0.3192	-0.4411	0.4082	0.3801	0.2528	0.2398	Gm15428
-0.4316	-0.4316	-0.4316	0.4083	0.3834	0.2720	0.2312	Il31ra
-0.4410	-0.4082	-0.4517	0.3726	0.3807	0.2978	0.2499	Cd163l1
-0.4478	-0.4107	-0.4324	0.3815	0.4195	0.2122	0.2778	Lgals1
-0.4333	-0.4333	-0.4333	0.3660	0.3908	0.2371	0.3061	Gm2788
-0.6235	-0.3308	-0.2922	0.3943	0.3676	0.3074	0.1771	Kif5a
-0.4849	-0.3835	-0.3756	0.3990	0.4748	0.0767	0.2935	Gm12856

-0.5218	-0.4174	-0.2762	0.5154	0.3470	0.0564	0.2966	Mdga1
-0.4592	-0.4132	-0.3421	0.4643	0.4916	0.0563	0.2023	Stmn1
-0.4455	-0.4455	-0.3009	0.5377	0.4457	0.0660	0.1426	Odz4
-0.4621	-0.4621	-0.1797	0.5237	0.5068	0.0950	-0.0216	E030002O03Rik
-0.4422	-0.3288	-0.2869	0.5780	0.5253	0.0156	-0.0609	Slc15a1
-0.4824	-0.3692	-0.2162	0.5454	0.5274	0.0631	-0.0680	Slc17a8
-0.6279	-0.3401	-0.0579	0.5022	0.4799	0.0628	-0.0189	Sox5
-0.6532	-0.2605	-0.2083	0.4730	0.4701	0.1142	0.0647	Gm5593
-0.7603	-0.1472	-0.1546	0.4273	0.4106	0.1090	0.1152	Tgfb3
-0.6027	-0.2326	-0.3502	0.4366	0.4586	0.2372	0.0531	Lyl1
-0.6737	-0.1559	-0.2654	0.4761	0.4329	0.1930	-0.0069	Tas1r1
-0.8596	0.0915	0.1164	0.3349	0.3412	-0.0839	0.0595	Cpa3
-0.7068	0.0370	0.0970	0.4630	0.4557	-0.2355	-0.1104	Emilin2
-0.9115	0.0552	0.0739	0.1644	0.1555	0.2671	0.1953	Adcy6
-0.8876	-0.0173	-0.0131	0.2333	0.2504	0.2067	0.2276	5830411N06Rik
-0.9076	0.0272	0.0601	0.2281	0.2336	0.1572	0.2014	Sell
-0.8855	-0.0028	0.0287	0.3039	0.2962	0.1034	0.1559	Slc22a3
0.6935	-0.1365	-0.0843	0.2182	0.2068	-0.4514	-0.4463	Fosl2
0.6026	-0.1774	-0.1227	0.3154	0.2847	-0.4158	-0.4868	Hey1
0.6050	-0.1310	-0.0770	0.3040	0.2526	-0.4768	-0.4768	Tns4
0.5129	-0.1126	-0.0500	0.3185	0.3376	-0.5032	-0.5032	Rhod
0.5697	-0.0196	0.0439	0.2261	0.2417	-0.5309	-0.5309	Calca
0.5213	-0.0771	-0.0068	0.2913	0.2940	-0.6296	-0.3932	Plaur
0.4660	0.0929	-0.0749	0.3214	0.2786	-0.5420	-0.5420	Sv2b
0.1855	-0.0551	0.0152	0.4492	0.4547	-0.4852	-0.5642	Ifitm1
0.1877	-0.0549	-0.0649	0.4934	0.4501	-0.5057	-0.5057	Edil3
0.1896	0.0612	0.0589	0.3992	0.3990	-0.6644	-0.4437	Fam20a
0.1232	-0.0750	-0.1854	0.5454	0.4920	-0.4556	-0.4446	Podxl
0.2691	-0.2535	-0.0686	0.4666	0.4856	-0.4686	-0.4307	Btnl9
0.3834	-0.1700	-0.1277	0.3530	0.4869	-0.5570	-0.3685	Nqo1
0.3280	-0.2113	-0.3586	0.5132	0.4457	-0.3586	-0.3586	Fam81a
0.4094	-0.2448	-0.3698	0.4645	0.4255	-0.2963	-0.3886	Dsp
0.2838	-0.3221	-0.3221	0.5077	0.4967	-0.3221	-0.3221	Eml1
0.2780	-0.3072	-0.3072	0.2593	0.6914	-0.3072	-0.3072	Clec4d
0.4409	0.2308	0.2028	0.1497	0.1297	-0.6334	-0.5205	Hs3st1
0.4776	0.2250	0.2065	0.1133	0.1191	-0.5708	-0.5708	Klrg1
0.4367	0.2149	0.2107	0.1520	0.1467	-0.5805	-0.5805	Ccr8
0.4201	0.2090	0.2137	0.1600	0.1647	-0.5837	-0.5837	Il4
0.4367	0.2327	0.2170	0.1497	0.1221	-0.5791	-0.5791	Fbxl21
0.4242	0.2319	0.2245	0.1497	0.1324	-0.5814	-0.5814	Naip6
0.3976	0.1997	0.2105	0.1748	0.1840	-0.6631	-0.5036	Fam46a

0.4018	0.1894	0.2043	0.1831	0.1923	-0.6359	-0.5349	Neurl3
0.4078	0.2028	0.1787	0.2077	0.1694	-0.6477	-0.5188	Abcb1a
0.4143	0.2073	0.1957	0.1816	0.1657	-0.6470	-0.5177	Myo1e
0.4159	0.1863	0.1519	0.2022	0.2023	-0.6698	-0.4888	Il2rb
0.4306	0.1868	0.2082	0.1664	0.1525	-0.6958	-0.4487	Lilrb4
0.4818	0.1201	0.1464	0.2059	0.1860	-0.5209	-0.6194	Gp49a
0.4427	0.1764	0.1637	0.2056	0.1725	-0.5705	-0.5904	Rora
0.4687	0.1745	0.1203	0.1770	0.2089	-0.5747	-0.5747	1700113H08Rik
0.6257	0.1705	0.1634	0.0392	0.0488	-0.5238	-0.5238	Csf2
0.5689	0.1764	0.1793	0.1055	0.0632	-0.5468	-0.5468	Clnk
0.6369	0.0918	0.0639	0.1138	0.1414	-0.5239	-0.5239	Il13
0.6970	0.0781	0.0609	0.0707	0.0845	-0.5182	-0.4730	Tgm2
0.6953	0.0402	0.0443	0.0926	0.1181	-0.4952	-0.4952	Klrb1b
0.4613	0.3035	0.3075	-0.0244	0.0393	-0.6042	-0.4831	Cxcl10
0.6073	0.2295	0.2460	-0.0535	-0.0150	-0.5227	-0.4916	Ccrl2
0.2632	0.3181	0.3217	0.1238	0.1254	-0.4511	-0.7011	Gm4956
0.2702	0.3468	0.3214	0.1219	0.1039	-0.5821	-0.5821	Art2b
0.2762	0.3369	0.3539	0.0831	0.1038	-0.5495	-0.6045	Ffar2
0.2490	0.3628	0.3691	0.0724	0.0925	-0.5729	-0.5729	Hpn
0.3144	0.2988	0.3328	0.1122	0.1058	-0.5820	-0.5820	Pard3
0.3131	0.3406	0.3160	0.0948	0.0920	-0.5782	-0.5782	Asb2
0.3359	0.3245	0.2981	0.1001	0.1013	-0.5800	-0.5800	Serpina3f
0.3312	0.3002	0.2883	0.1215	0.1297	-0.5854	-0.5854	Csf1
0.3829	0.2873	0.2778	0.1081	0.1027	-0.5794	-0.5794	Ret
0.3897	0.3051	0.2789	0.1108	0.0652	-0.5748	-0.5748	Art2a-ps
0.4132	0.3016	0.2857	0.0579	0.0792	-0.5688	-0.5688	Sdc4
0.4175	0.2933	0.2576	0.0752	0.1028	-0.5732	-0.5732	Il6
0.4006	0.2876	0.2716	0.0888	0.0977	-0.5073	-0.6390	Gimap4
0.3762	0.2303	0.2058	0.1786	0.1503	-0.4011	-0.7401	Adam19
0.4332	0.2026	0.1969	0.1503	0.1596	-0.4454	-0.6972	Dkk3
0.4832	0.2619	0.2242	0.0791	0.0483	-0.4113	-0.6855	Irak3
0.2573	0.3125	0.2975	0.1502	0.1641	-0.5908	-0.5908	Serpina3g
0.2538	0.2850	0.2927	0.1657	0.1903	-0.5937	-0.5937	1810011H11Rik
0.2483	0.2929	0.3046	0.1613	0.1778	-0.5925	-0.5925	Cpne7
0.2516	0.3074	0.3179	0.1507	0.1496	-0.6284	-0.5488	H2-Q6
0.2023	0.2990	0.3007	0.1822	0.2027	-0.6119	-0.5750	Gimap3
0.2286	0.2921	0.3172	0.1645	0.1819	-0.6062	-0.5781	Fam55d
0.2421	0.2746	0.2708	0.2003	0.2037	-0.6187	-0.5729	Naip2
0.2376	0.2587	0.2778	0.2115	0.2066	-0.6223	-0.5699	Mmp25
0.1580	0.2931	0.3101	0.2019	0.2178	-0.6516	-0.5293	Acsbg1
0.1768	0.3332	0.3398	0.1660	0.1575	-0.6156	-0.5576	H2-Q8

0.2292	0.2571	0.2524	0.2304	0.2195	-0.5237	-0.6649	Eif2s3y
0.2056	0.2519	0.2564	0.2261	0.2512	-0.5461	-0.6450	Gm14303
0.2043	0.2736	0.2696	0.2106	0.2335	-0.5648	-0.6268	Zbtb7b
0.2495	0.2358	0.2440	0.2209	0.2447	-0.5975	-0.5975	Krt80
0.2272	0.2323	0.2369	0.2401	0.2581	-0.6119	-0.5827	Ptgir
0.1491	0.2871	0.2755	0.2249	0.2513	-0.5940	-0.5940	Alox5
0.1783	0.2707	0.2834	0.2273	0.2314	-0.5863	-0.6047	Samhd1
0.1916	0.2805	0.2733	0.2211	0.2254	-0.5959	-0.5959	Fam19a3
0.1895	0.3046	0.2770	0.2039	0.2141	-0.5946	-0.5946	Metrnl
0.1879	0.2719	0.2659	0.2322	0.2338	-0.6210	-0.5707	Tspan32
0.1875	0.2876	0.2816	0.2131	0.2200	-0.6199	-0.5698	Gm5127
0.3410	0.2425	0.2225	0.1904	0.1895	-0.5930	-0.5930	1300014I06Rik
0.3577	0.2668	0.2370	0.1670	0.1493	-0.6088	-0.5691	Nmur1
0.3674	0.2172	0.2506	0.1734	0.1702	-0.5636	-0.6152	Pde7b
0.3564	0.1985	0.2594	0.1691	0.1984	-0.5909	-0.5909	Klrk1
0.2858	0.2652	0.2422	0.1977	0.2007	-0.5958	-0.5958	Rnf128
0.2981	0.2335	0.2355	0.2144	0.2107	-0.5961	-0.5961	Il18rap
0.2912	0.2709	0.2206	0.2131	0.1942	-0.5635	-0.6265	Cntn1
0.3069	0.2529	0.2398	0.1902	0.1996	-0.5728	-0.6166	Cxcr6
0.3084	0.2294	0.2659	0.1782	0.2066	-0.5736	-0.6149	Slc7a8
0.3336	0.2156	0.2279	0.2038	0.2060	-0.5621	-0.6248	Ddx3y
0.3715	0.2380	0.2223	0.1700	0.1667	-0.4937	-0.6749	Epas1
0.3440	0.2562	0.2310	0.1803	0.1556	-0.4722	-0.6950	Lpcat2
0.3886	0.2395	0.2242	0.1450	0.1720	-0.5254	-0.6440	Arg1
0.3142	0.2621	0.2681	0.1693	0.1691	-0.5471	-0.6357	Ttc39b
0.3299	0.2919	0.2381	0.1871	0.1281	-0.5260	-0.6490	Pcsk1
0.2736	0.2613	0.2703	0.1759	0.1929	-0.4722	-0.7019	Naip5
0.2300	0.2413	0.2454	0.2237	0.2300	-0.4425	-0.7280	Nt5e
0.2556	0.2172	0.1977	0.2602	0.2509	-0.4918	-0.6898	Gpr114
0.2510	0.2196	0.2305	0.2613	0.2271	-0.5301	-0.6594	Nav2
0.2743	0.2274	0.2133	0.2436	0.2275	-0.5123	-0.6738	Cd200r1
0.3068	0.2070	0.1779	0.2541	0.2353	-0.5073	-0.6738	Jag1
0.3497	0.1908	0.1622	0.2490	0.2231	-0.5066	-0.6683	Ahnak
0.2269	0.1275	0.1452	0.3365	0.3344	-0.6057	-0.5650	Il18r1
0.2381	0.1380	0.1185	0.3489	0.3244	-0.6097	-0.5582	Gzmb
0.3299	0.1222	0.1097	0.3004	0.3049	-0.5835	-0.5835	Stab2
0.3542	0.1205	0.1418	0.2785	0.2757	-0.6065	-0.5643	Ramp3
0.2814	0.1941	0.1756	0.2759	0.2624	-0.5907	-0.5987	Hlf
0.3255	0.1886	0.1843	0.2489	0.2401	-0.5937	-0.5937	Itga2
0.3582	0.1697	0.1671	0.2394	0.2460	-0.6067	-0.5737	Icos
0.2457	0.2582	0.2421	0.2227	0.2199	-0.6645	-0.5243	Fgl2

0.2833	0.2401	0.2378	0.2157	0.2057	-0.6846	-0.4980	Kdm5d
0.3258	0.2184	0.2306	0.2087	0.1938	-0.6858	-0.4915	Uty
0.3266	0.2165	0.2004	0.2244	0.2071	-0.6945	-0.4804	Cd226
0.0699	0.2841	0.2742	0.2608	0.2821	-0.6401	-0.5309	Rpsa-ps10
0.1362	0.2769	0.2687	0.2408	0.2616	-0.6427	-0.5414	Gm15500
0.1161	0.2858	0.2820	0.2525	0.2407	-0.6618	-0.5154	Fam124b
0.0757	0.2225	0.1871	0.3300	0.3496	-0.5825	-0.5825	S100a4
0.1409	0.2272	0.2364	0.2945	0.2869	-0.6073	-0.5786	Rab27b
0.1999	0.2023	0.2341	0.2714	0.2840	-0.5958	-0.5958	9430031J16Rik
0.1528	0.1214	0.2584	0.3160	0.3256	-0.5871	-0.5871	Zbtb16
-0.0809	0.2491	0.2616	0.3422	0.3467	-0.5593	-0.5593	S1pr1
0.0167	0.2713	0.2670	0.2934	0.3109	-0.5797	-0.5797	Rpl28-ps1
-0.0401	0.2785	0.2860	0.2980	0.3117	-0.6380	-0.4961	Rarg
0.0638	0.2847	0.2832	0.2503	0.2713	-0.4472	-0.7060	Gm13654
0.0194	0.3092	0.3334	0.2260	0.2589	-0.4807	-0.6661	Ltb4r1
0.1126	0.2798	0.2767	0.2572	0.2570	-0.5917	-0.5917	Il1rl1
0.0776	0.2784	0.2820	0.2623	0.2759	-0.5765	-0.5997	Tnfrsf25
0.0992	0.3084	0.2686	0.2577	0.2429	-0.5371	-0.6396	Tlr1
0.0833	0.2723	0.2744	0.2618	0.2826	-0.5352	-0.6393	Rps25-ps1
0.1435	0.3244	0.3335	0.1885	0.1857	-0.5563	-0.6193	Gvin1
0.1064	0.3470	0.3412	0.1866	0.1865	-0.5714	-0.5964	Grin2d
0.1247	0.3345	0.3406	0.1824	0.1817	-0.5019	-0.6621	Gm4070
-0.6358	0.3335	0.3195	0.2932	0.3144	-0.3479	-0.2769	Gm11361
-0.6136	0.3311	0.3274	0.2997	0.3150	-0.3260	-0.3337	Gm5045
-0.5881	0.3207	0.3282	0.3162	0.3180	-0.3241	-0.3708	Id1
-0.6026	0.3250	0.3301	0.2916	0.3288	-0.3001	-0.3729	Gm10709
-0.6861	0.2604	0.2726	0.3528	0.3411	-0.2741	-0.2668	Elovl7
-0.6634	0.3284	0.3113	0.2914	0.3158	-0.2818	-0.3018	Gm6274
-0.6931	0.3264	0.3338	0.2701	0.2937	-0.2384	-0.2926	Gm5148
-0.4650	0.3698	0.3512	0.3003	0.2808	-0.3721	-0.4650	St8sia6
-0.4657	0.3970	0.4032	0.2440	0.2438	-0.3565	-0.4657	Apol9b
-0.4986	0.3356	0.3321	0.3062	0.3261	-0.3410	-0.4605	Gm7536
-0.4677	0.3472	0.3390	0.2952	0.3225	-0.3686	-0.4677	Gm12191
-0.4731	0.3368	0.3390	0.2962	0.3335	-0.3822	-0.4503	Gm10119
-0.4736	0.3144	0.3205	0.3146	0.3494	-0.3338	-0.4915	Gm10736
-0.5052	0.3370	0.3441	0.2781	0.3248	-0.2735	-0.5052	Gm13611
-0.5383	0.3311	0.3261	0.3082	0.3314	-0.3507	-0.4078	Gm5428
-0.5313	0.3412	0.3360	0.2957	0.3237	-0.4236	-0.3417	Gm13268
-0.4579	0.3381	0.3293	0.3110	0.3300	-0.4134	-0.4371	Gm13436
-0.4361	0.3396	0.3471	0.2981	0.3236	-0.4361	-0.4361	Gm12918
-0.4364	0.3268	0.3174	0.3362	0.3287	-0.4364	-0.4364	5430421N21Rik

-0.4361	0.3065	0.3150	0.3303	0.3565	-0.4361	-0.4361	Gm10116
-0.4359	0.3064	0.2977	0.3479	0.3557	-0.4359	-0.4359	Gm10241
-0.4251	0.2126	0.2007	0.4129	0.4492	-0.4251	-0.4251	Ggt1
-0.4342	0.2949	0.2589	0.3630	0.3856	-0.4342	-0.4342	AI646023
-0.4314	0.2537	0.2445	0.3780	0.4180	-0.4314	-0.4314	Spon2
-0.3677	0.3239	0.3290	0.3064	0.3293	-0.5731	-0.3477	Gm8430
-0.2017	0.3278	0.3188	0.2971	0.3175	-0.5297	-0.5297	Rps27a-ps2
-0.2919	0.3442	0.3346	0.3015	0.3093	-0.4989	-0.4989	Rpl9-ps4
-0.4870	0.5179	0.5514	-0.0701	-0.0001	-0.0909	-0.4212	Fscn1
-0.4088	0.5673	0.5526	-0.0354	-0.0433	-0.2804	-0.3520	Gm4841
-0.3979	0.5830	0.5352	-0.0084	-0.0952	-0.2187	-0.3979	Gm5970
-0.6080	0.4849	0.4918	0.0274	0.1247	-0.2873	-0.2334	Ifit3
-0.5554	0.5243	0.5084	0.0562	0.0145	-0.3224	-0.2256	Gm4951
-0.5893	0.5039	0.5245	-0.0102	0.0551	-0.2830	-0.2011	I830012O16Rik
-0.5960	0.5161	0.5240	-0.0127	0.0191	-0.2544	-0.1961	Ifi44
-0.4696	0.4955	0.4825	0.0872	0.1172	-0.4696	-0.2434	Ms4a4c
-0.4982	0.4911	0.5059	0.0896	0.0956	-0.3850	-0.2989	Slfn1
-0.6663	0.3964	0.4193	0.1788	0.2122	-0.2643	-0.2762	Pydc3
-0.6989	0.4368	0.4621	0.0787	0.1293	-0.1806	-0.2273	Tlr7
-0.7469	0.4577	0.4664	-0.0697	0.0281	-0.0798	-0.0558	Gm14446
-0.8407	0.3459	0.3395	0.1384	0.1621	-0.0379	-0.1073	Ly6c1
-0.1229	0.5597	0.5354	-0.0444	-0.0687	-0.3614	-0.4977	F830016B08Rik
0.1025	0.5190	0.5192	-0.1364	-0.0872	-0.4153	-0.5018	Gbp10
0.1623	0.5275	0.5550	-0.3112	-0.3112	-0.3112	-0.3112	Apol7c
0.0369	0.5753	0.5492	-0.3394	-0.3394	-0.1433	-0.3394	Aldh1a2
-0.0176	0.5639	0.5713	-0.0996	-0.3393	-0.3393	-0.3393	Vmn2r100
-0.2675	0.5409	0.6396	-0.1105	-0.2675	-0.2675	-0.2675	Clu
-0.2781	0.5749	0.6124	-0.1873	-0.1657	-0.2781	-0.2781	Klra14
-0.2386	0.6410	0.5519	-0.2386	-0.2386	-0.2386	-0.2386	Anxa3
-0.2389	0.5687	0.6255	-0.2389	-0.2389	-0.2389	-0.2389	Gm8221
-0.2388	0.5684	0.6259	-0.2388	-0.2388	-0.2388	-0.2388	Zfp366
-0.2390	0.5928	0.6024	-0.2390	-0.2390	-0.2390	-0.2390	Lyz1
-0.2331	0.4253	0.7400	-0.2331	-0.2331	-0.2331	-0.2331	Cd209b
0.5345	0.3458	0.4050	-0.3873	-0.2656	-0.2452	-0.3873	Ccl22
0.5224	0.3849	0.3906	-0.3181	-0.3470	-0.3637	-0.2692	Dgat2
0.5150	0.3705	0.3614	-0.1966	-0.1491	-0.4506	-0.4506	Cybb
0.3815	0.5408	0.3444	-0.2676	-0.1784	-0.4497	-0.3711	Cyp26b1
0.7509	0.2120	0.2010	-0.3391	-0.3391	-0.2058	-0.2801	Ahrr
0.7005	0.2774	0.2316	-0.2386	-0.2975	-0.2797	-0.3938	Atp8a2
0.8038	0.1909	0.0781	-0.2860	-0.3536	-0.2894	-0.1439	Ppfibp2
0.4294	0.4628	0.2500	-0.1762	-0.6633	-0.0462	-0.2566	Ceacam15

-0.1808	0.4432	0.3482	-0.4698	-0.5663	0.3067	0.1189	Gbp11
-0.4263	0.3477	0.3104	-0.4263	-0.4195	0.4726	0.1414	Dnahc2
-0.1121	0.3904	0.1626	-0.2991	-0.6375	0.5559	-0.0602	Gm12194
-0.4548	0.2581	0.1787	-0.3542	-0.4548	0.3129	0.5142	Akap2
-0.4585	0.4588	0.4745	-0.2721	-0.4585	-0.0081	0.2639	Lad1
-0.4696	0.4803	0.4063	-0.2673	-0.4630	0.3129	0.0004	Lama4
-0.4469	0.4339	0.5917	-0.2097	-0.4469	0.1261	-0.0483	Gm16340
-0.4462	0.4168	0.6050	-0.2090	-0.4462	0.1271	-0.0474	Ttc39a
0.0087	0.2248	0.2459	-0.5908	-0.5605	0.3300	0.3419	Pou6f1
0.2755	0.1192	0.1961	-0.6592	-0.5115	0.3500	0.2299	Tlr9