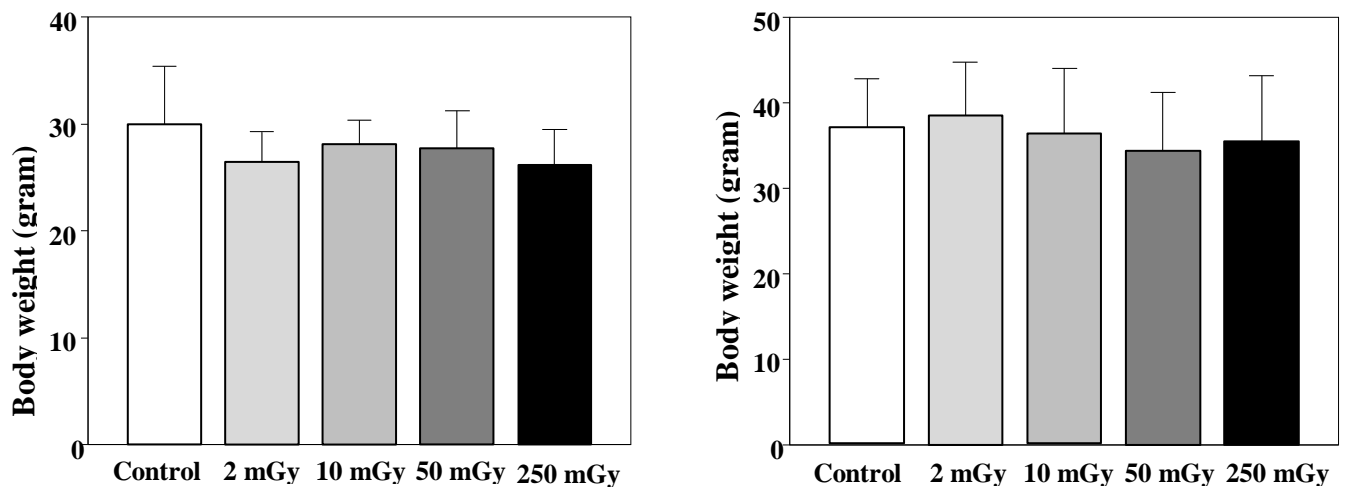


Sensitivity and dose dependency of radiation-induced injury in hematopoietic stem/progenitor cells in mice

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Supplementary Figure 1. Body weight of mice soon (left) or 3 months (right) after daily radiation exposures to 2, 10, 50, and 250 mGy γ -ray.



Supplementary Table 1. The changes of gene expression in c-kit⁺ hematopoietic stem/progenitor cells at the acute and chronic phases after exposures to different dose of γ ray (compare to age-matched health mice).

Gene Symbol	<i>Acute Phase</i>				<i>Chronic Phase</i>			
	2 mGy	10 mGy	50 mGy	250 mGy	2 mGy	10 mGy	50 mGy	250 mGy
9430015G10Rik	-1.0263	-1.1423	-1.525	1.6691	1.3134	1.2687	1.8532	1.5801
Aass	1.1995	1.9562	-1.1477	2.0981	-1.0792	1.5801	1.2924	1.8532
Abcb1a	1.1995	1.9562	-1.1477	2.0981	-1.0792	1.5801	1.2924	1.8532
Abcb1b	3.1656	1.9027	-1.1718	2.0408	-1.0792	1.5801	1.2924	1.8532
Abcb4	1.2418	1.0778	1.0433	1.4836	1.5692	-1.1408	2.3134	2.5315
Abcc1	-1.3172	1.0853	-1.1477	1.1166	1.4743	1.2226	1.0792	2.0849
Abcc2	1.4167	1.7388	-1.1241	1.8649	1.181	1.5801	1.2924	1.8532
Abcc3	1.1995	1.9562	-1.1477	2.0981	-1.0792	1.5801	1.2924	1.8532
Abl1	1.1587	-1.0295	-1.1965	2.0693	2.395	2.8284	2.4967	6.0629
Acaa1a	1.3218	2.0393	-1.1638	2.5125	2.8481	2.7895	2.7511	3.4343
Acaa2	1.7441	-1.2414	1.3298	-1.4053	-1.0792	1.5801	3.5064	2.2038
Acaca	-1.1872	1.1236	1.5065	2.8072	-1.1173	1.5263	1.2483	1.7901
Acad11	1.3971	2.1259	1.1105	1.3187	-1.0792	1.5801	1.2924	1.8532
Acad9	1.2079	1.3642	-1.4327	-1.1574	1.5369	1.9185	2.4794	2.3784
Acadl	1.5938	-1.1188	1.3863	-1.3481	-1.3013	-2.9282	-1.3104	1.057
Acadm	1.1587	1.0778	-1.0416	-2.0862	2.0279	2.9897	1.4743	2.5491
Acads	1.183	2.3103	-1.1638	3.4801	-1.0792	1.5801	1.2924	1.8532
Acadsb	1.0962	1.5455	-4.5277	-1.1736	-1.0792	1.5801	1.2924	1.8532
Acadvl	1.2679	-2.1464	1.0148	-1.3388	1.5157	1.5801	2.042	-1.3104
Acat1	1.4768	-1.0511	1.1028	1.3652	-1.5369	1.2924	-1.6702	-2.6208
Acat2	1.2768	-1.2158	-1.6344	-9.5857	1.4845	1.5801	1.2924	1.8532
Acly	1.0017	1.2295	1.0148	1.0637	-6.021	-1.7171	-2.4116	-1.5583
Aco1	4.5709	1.9562	3.2971	3.7298	-1.0792	1.5801	1.2924	1.8532
Aco2	1.1995	-1.5177	1.029	-1.7063	1.2058	-1.0353	1.0425	-1.3947
Acot12	1.1995	1.9562	-1.1477	2.0981	-1.0792	1.5801	1.2924	1.8532
Acot2	1.1995	1.9562	-1.1477	2.0981	-1.0792	1.5801	1.2924	1.8532
Acot3	5.6666	3.8586	2.7534	6.3604	1.1487	2.1435	1.6472	2.9897
Acot6	2.2855	2.5457	2.058	2.0981	1.181	1.5801	1.2924	1.8532
Acot7	-1.4216	-1.2414	-1.2301	-2.4131	-1.4948	1.1408	2.1886	1.3379
Acot8	-1.6673	-1.3213	-1.3839	-1.2753	-1.0792	1.5801	1.2924	1.8532

Acot9	1.7082	1.2729	1.182	-1.0216
Acox1	-3.3346	-3.7371	-2.2955	-2.0012
Acox2	1.1995	1.9562	-1.1477	2.0981
Acox3	2.0885	1.9562	1.5814	2.8463
Adh1	1.1995	1.9562	-1.1477	2.0981
Adk	1.4464	-1.1826	1.4056	-1.0359
Ahr	2.853	-1.1582	1.5275	-1.0799
Ahsg	2.3174	3.29	1.4352	4.1385
Akt1	-1.4118	-1.3774	-1.4936	1.0637
Alb	1.1995	1.9562	-1.1477	2.0981
Aldh1a1	1.2333	1.0411	1.1105	1.1885
Aldh2	-2.1547	2.0112	2.4473	1.6235
Amfr	1.3684	1.7268	1.1182	1.2389
Apaf1	1.0443	1.3929	-1.3744	1.2738
Apex1	1.1995	1.3361	-1.1638	-1.8933
Apoa5	1.1995	1.9562	-1.1477	2.0981
Apoe	-1.8245	-1.6609	-1.6688	2.0981
Apof	1.1995	1.9562	-1.1477	2.0981
Aqp4	1.1995	1.9562	-1.1477	2.0981
Asah1	-1.6558	-1.0224	-1.6119	-1.118
Asns	1.65	-1.6154	-1.2048	1.0861
Atf4	-1.1872	-1.3966	-1.1638	-3.5823
Atf6	1.9086	3.1779	2.1753	-2.0152
Atm	1.2505	2.7665	2.0156	2.0981
Atp6v1g2	4.0069	1.7148	1.1338	7.0573
Atp8b1	-1.0774	1.0778	-2.0832	1.156
Bad	1.1348	-1.1663	-1.6458	-1.1899
Bak1	1.6273	2.3103	1.0801	1.7161
Bax	1.1749	1.1632	-1.101	1.7889
Bcl2	1.1587	-1.3121	-1.1718	-3.533
Bcl2l1	2.0174	1.7388	1.5814	2.5831
Bcl2l11	2.1324	-1.1423	1.2668	-3.3657
Bid	1.5289	1.5889	-1.4427	-1.3574
Birc3	1.8823	1.4123	1.2934	-1.3481
Bmf	1.7684	1.9293	1.5705	3.5043
Brcal	1.2946	1.5032	-1.504	-1.3764

1.8661	1.4743	1.2058	1.9862
1.0867	1.5911	1.2924	-1.181
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.057	-1.3851	-1.2924	-1.0353
-1.014	1.5801	1.2924	1.8532
1.021	1.5801	1.4044	4.0278
-1.5583	-1.6021	1.3379	1.3287
-1.0792	1.5801	1.2924	1.8532
1.057	-1.0792	-1.3195	1.1487
1.257	1.5801	1.2924	2.0994
3.1821	3.0951	1.4439	2.1287
-1.1019	1.1975	1.5801	1.2746
1.5801	1.5801	2.114	3.7842
-1.0792	1.5801	1.2924	1.8532
1.6586	-1.6245	-1.4044	-1.1173
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.021	1.0425	1.8532	1.2226
-1.1329	-1.5263	-1.4845	-1.3379
-1.021	-1.9725	-3.0951	-1.5476
-1.4142	1.2058	-1.014	1.4142
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-2.362	-1.1892	1.0497	1.3851
4.2871	6.9644	4.0558	5.3517
-3.4581	-2.0279	-2.4794	-1.7291
3.605	1.9725	-1.7171	1.4439
1.1975	-1.6586	1	-1.4142
1.2058	1.3379	1.9588	2.9079
-1.9185	-1.1251	-1.3755	1.0425
2.4794	4	5.0281	5.7358
-1.8921	-2.8879	-3.1821	-1.2483

Brca2	1.0299	1.5889	1.3206	1.1967
C3	-1.0479	2.0535	-1.0272	1.164
C9	1.1995	1.9562	-1.1477	2.0981
Casp1	1.2505	1.4723	-1.0202	-1.0724
Casp2	1.1995	1.4221	1.0008	1.1012
Casp3	1.4364	1.0267	1.0148	1.5901
Casp7	1.5719	1.7509	1.3484	2.0981
Casp8	1.5502	2.2627	1.0008	-1.095
Casp9	-1.4515	1.4621	-1.1965	1.2916
Cat	-1.1	1.0778	-1.9572	-1.0006
Cd19	1.1995	1.1876	2.8703	6.4492
Cd36	-3.5739	-2.0877	2.1904	1.1244
Cd4	1.1995	1.9562	-1.1477	2.0981
Cd40	1.1995	1.9562	-1.1477	2.0981
Cd40lg	1.1995	1.9562	-1.1477	2.0981
Cd44	1.2679	1.4929	-1.3276	-1.2405
Cd80	-1.2205	1.5137	1.0433	2.7685
Cd86	-2.6713	1.9427	-1.3276	-1.9197
Cd8a	1.1995	1.9562	-1.1477	2.0981
Cdkn1a	-1.902	-2.1464	-2.5647	-1.5378
Ces2c	1.1995	1.9562	-1.1477	2.0981
Cflar	-1.0849	1.578	-1.0635	1.2826
Chk1	1.0662	-1.3213	1.1417	1.0204
Chk2	1.6964	2.0112	2.1305	1.985
Commd4	-1.2462	1.1392	-1.4527	-1.465
Comt	1.2946	1.0629	1.2756	1.5359
Cox6b1	1.4265	-1.0882	-1.1398	-1.2066
Cox7a2	1.1995	1.9562	-1.1477	2.0981
Cox8a	1.1115	-1.0511	-1.1638	1.0786
Cpt1a	1.4464	1.2641	1.1182	1.0936
Cpt1b	-1.1388	1.1959	-3.9416	-2.0012
Cpt2	1.1038	1.5671	-1.8516	-2.7912
Crat	1.6386	-1.1423	1.3298	-2.0292
Crot	-1.2121	1.4026	1.2845	1.1967
Cryaa	1.1995	1.9562	-1.1477	2.0981
Cryab	1.1995	1.9562	-1.1477	2.0981

1.014	-1.1567	-1.2834	1.9053
-1.7777	-1.1892	-1.1487	1.3472
-1.0792	1.5801	1.2924	1.8532
-1.5052	-1.3566	-1.021	1.6133
-1.0425	1.3013	1.4743	2.2658
1.3851	-1	1.3104	2.1435
2.5491	2.7132	2.639	1.7901
1.1647	1.1329	-4.4076	-1.4241
1.9185	1.007	-1.2142	1.181
1.0644	-1.0281	2.2658	1.4948
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.3566	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.3104	-1.0718	-1.3013	-1.021
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.8532	-1.366	-1.7171	-1.5263
-1.0792	1.5801	1.2924	1.8532
-1.4641	-3.4343	-3.3636	-1.5692
-2.0994	1.5052	-2.1585	-1.5052
1.0281	1.5801	1.2924	1.8532
2.0279	1.3755	3.2716	2.2191
-1.1892	1.2397	-1.8404	-1.3013
1.0497	1.3379	1.5583	-1.3104
-1.0792	1.5801	1.2924	1.8532
1.057	-1.1487	1.0353	-1.2397
-1.2834	-2	1.9053	1.0943
1.6021	1.5801	1.2924	2.1435
1.3566	1.1329	-1.0792	1.3287
-1.0792	1.5801	1.2924	1.8532
-1.4845	-1.3287	-1.6021	-1.2397
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532

Cs	1.1995	1.9562	-1.0344	2.0981
Csf2	6.8328	3.2672	3.9483	20.5222
Ctsb	-2.1251	-1.0732	1.0078	1.6462
Ctse	1.6615	-1.9888	1.0801	-2.0575
Cyc1	1.3402	1.0196	1.0952	1.4632
Cyld	2.1924	2.1112	1.029	4.1385
Cyp1a1	1.183	1.9293	-1.1638	2.0693
Cyp1a2	2.3497	1.9562	1.1497	8.1067
Cyp2d22	2.0034	1.9562	-1.1477	2.0981
Cyp2e1	1.1995	1.9562	-1.1477	2.0981
Cyp3a11	2.0314	1.9562	1.7186	2.6742
Cyp4a14	1.1995	1.9562	-1.1477	2.0981
Cyp7a1	1.1995	1.9562	-1.1477	2.0981
Cyp7b1	1.1995	1.9562	-1.1477	2.0981
Ddit3	1.183	-1.6609	-1.3839	-1.8162
Defb1	1.1995	1.9562	-1.1477	2.0981
Derl1	-1.3081	-1.3584	-1.2913	1.3371
Dher24	-2.3416	-1.4359	-1.9302	-1.3388
Dlat	1.3218	-1.0295	1.4056	-2.1153
Dld	1.3875	-1.0958	-1.3276	-4.6942
Dlst	1.1587	1.5562	-1.9983	-1.0076
Dnaja1	1.3684	1.3177	1.0653	1.0637
Dnaja2	1.1038	1.1632	-1.0416	-1.0577
Dnaja3	1.3218	1.3177	-1.5678	1.0346
Dnajib1	1.1507	-1.2941	-1.3744	-1.5811
Dnajib6	1.1427	1.0556	-1.5463	-1.6712
Dnajc3	1.561	1.452	1.2494	-1.0146
Dnajc5	1.0443	-2.0306	-1.0934	1.0637
Dnajc6	-1.5131	-2.0027	-1.8645	-1.4958
Dnm1	2.5535	1.9562	1.2322	2.6374
Dpysl4	1.1995	1.9562	-1.0061	2.0981
Duox1	1.1995	1.9562	-1.1477	2.0981
Duox2	1.1995	1.9562	-1.1477	2.0981
Echs1	1.037	-1.1111	-1.1965	-1.2491
Edem1	1.2768	1.9698	1.0148	1.3464
Edem3	-1.1467	1.0196	1.0219	1.4632

-1.0792	1.5801	1.2924	1.8532
8	3.2944	3.7064	4.7568
1.1487	1.6702	1.7532	1.257
1.7053	1.366	-1.5692	1.1728
1.1567	-1.0718	1.1173	-1.1975
5.5022	7.4643	4.8568	15.0324
-1.0792	1.5801	1.2924	1.8532
1.7532	3.1821	2.114	2.5315
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.0867	1.5476	-2.0849	-1.5052
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-4.1699	-1.7171	-1.6586	-2.0849
1.257	1.366	1.1975	-1.5583
-1.6133	-1.1251	1.1567	-1.1647
-1.1647	-1.4845	1.366	1.7901
-1.014	-1.6245	-2.114	-1.181
1.3104	1.8661	-1.1329	2.2974
-2.1735	-2.395	-2.9282	-2.042
1.257	1.2746	1.3947	2.4794
2.1585	1.8921	1.7777	3.0951
2.2501	1.2311	1.8025	1.366
1.3566	1.7654	2.4284	1.6586
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.5157	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.0353	-1.257	1.4948	2.4623
-1.4044	1.3195	1.7901	1.5801
-1.007	-1.6702	-1.4948	2.2501

Ehhadh	4.3244	1.8765	-1.1882	2.0127
Eif2ak3	1.5395	1.3269	1.2494	1.0133
Eif5b	1.9487	2.0252	1.7426	1.7161
Eno1	-2.0244	-1.2851	-1.5144	-1.4854
Ep300	-4.077	-1.3584	-1.6119	-1.9465
Ephx1	1.1995	3.4297	-1.1477	3.0506
Epx	2.4158	2.0678	-1.473	-1.7422
Ercc1	-1.0625	-1.9888	-1.6344	-2.4809
Ercc2	1.4768	1.1876	1.5275	1.6576
Ercc3	1.3779	-1.0153	2.6967	2.328
Ercc5	2.7943	1.4123	-1.0061	1.2304
Ercc6	1.4167	-1.1908	-1.0783	-1.6031
Ern2	1.7562	1.9562	1.8166	2.4608
Erol1	-1.0335	1.0703	-1.101	1.3279
Erol1b	1.1667	1.1236	-1.3555	1.2051
Esd	1.3589	-1.1582	1.3577	-1.3669
Esr1	1.7684	2.9041	1.6716	-1.1026
F2	1.4464	1.9562	1.9605	2.0981
Fabp1	1.1995	1.9562	-1.1477	2.0981
Fadd	-1.1547	1.8765	-1.2048	1.6348
Fas	-1.5994	1.5032	-1.1965	1.4734
Fasl	1.1995	1.9562	-1.1477	2.0981
Fasn	1.1995	1.3737	1.1338	1.3558
Fbxo6	1.7082	1.3177	-1.0488	-2.6775
Fh1	1.65	1.3269	1.126	-1.1258
Fmo2	1.1995	1.9562	-1.1477	2.0981
Fmo3	3.8171	1.9562	1.4154	2.0981
Fmo4	1.037	-1.2414	-2.0977	4.1099
Fmo5	1.3127	1.4723	-1.3461	1.5148
Foxi1	1.1995	1.9562	-1.1477	2.0981
Fxc1	-1.0263	-1.8301	-1.3555	-3.2063
Gadd45a	-1.0774	-1.4559	-1.4427	-2.1153
Galnt5	1.1995	1.9562	-1.1477	2.0981
Gcdh	2.2076	1.1713	1.0952	3.0932
Gpd1	1.5183	1.3642	2.4644	5.537
Gpt	2.2076	1.0339	-1.2913	1.148

-1.0792	1.5801	1.2924	1.8532
2.4967	3.8371	5.6962	3.2716
-1.9588	-3.0738	-1.2311	-1.7532
-1.4743	-1.3379	-2.1435	-1.7654
-1.1728	1.454	1.1892	1.7053
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	2.7321	1.8532
-1.0792	1.5801	1.2924	1.8532
2.1435	1.7291	1.7777	1.4241
-1.0792	1.5801	1.2924	1.8532
-1.2226	1.5476	1.1487	1.6358
1.4948	2.4453	1.2924	1.8532
1.0644	1.5801	1.2924	1.8532
-2.2191	-2.7702	-2.4623	-3.1821
2.0994	1.6472	1.5263	2.0849
-1.0867	-1.7532	1.0425	-1
-1.6818	1.014	-1.2058	1.1892
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.1408	1.5801	1.5369	2.0139
1.3379	2.514	2.6574	4.4691
-1.0792	1.5801	1.2924	1.8532
1.2142	1.4641	-1.4142	1.4044
-2.3784	-2	-2.514	-2.6208
-2.9282	-2.4116	-1.2483	-1.5476
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.1647	4	3.0314	3.6301
1.3947	1.2142	1.3566	2.4284
-1.0792	1.5801	1.2924	1.8532
-2.3295	-1.6133	-3.5308	-1.0353
-2.362	-2.2346	-1.8661	-3.6301
-1.0792	1.5801	1.2924	1.8532
2.5669	2.4116	3.0314	1.7901
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532

Hspd1	1.0228	1.0778	1.1417	1.5466
Hspe1	1.5719	-1.0658	-1.0488	-1.0006
Hsph1	1.2856	1.3833	1.1182	2.7878
Htra2	1.183	-2.3005	1.1985	1.1244
Htra4	-1.0924	1.4929	-1.504	1.6012
Icam1	-3.4522	-2.1316	-4.109	-2.0152
Idh1	-1.179	-2.8322	1.1338	-1.1103
Idh2	1.4167	1.0778	-1.1398	-1.6143
Idh3a	1.5078	-1.0882	-1.4033	1.1401
Idh3b	1.183	1.2641	-1.1638	-1.0216
Idh3g	1.2592	1.0556	1.0361	1.0133
Ifng	1.1995	1.9562	1.0361	2.0981
Il10	1.1995	1.9562	-1.1477	2.0981
Il13	1.1995	2.5457	-1.1477	2.0981
Il1a	1.1995	1.9562	1.7547	2.0981
Il1b	-1.4315	1.0629	2.0723	3.2923
Il2	1.1995	1.9562	-1.1477	2.0981
Il2ra	1.1995	1.9562	-1.1477	2.0981
Il4	1.3127	1.0928	1.8292	1.1089
Il5	1.1995	1.9562	-1.1477	2.0981
Il6	1.0886	2.0678	-1.2913	-1.5062
Inhbe	1.1995	1.9562	-1.1477	2.0981
Irf6	1.1995	1.9562	-1.1477	2.0981
Itgax	1.5828	2.5992	-2.3437	3.8882
Jag1	2.1622	2.1706	-2.4773	3.6785
Jph3	2.3991	1.9562	1.8547	5.9344
Kcnip1	1.1995	1.9562	-1.1477	2.0981
Khk	1.1192	-1.0295	-1.3184	-2.659
Klf1	2.254	1.9698	1.66	2.3935
Lig4	2.0314	8.1008	-1.1477	2.0981
Lmna	-1.1872	-1.7075	-1.6572	1.5791
Lpl	-1.3637	2.8247	2.4815	6.0591
Lss	3.1005	4.107	1.4154	2.5476
Ly6d	-1.0774	-2.2688	-1.3649	-1.2753
Lyz2	-1.85	-1.0295	-1.3839	-1.5062
Mag	5.3982	2.7284	1.947	5.8527

-1.5801	-1.2058	-1.6021	-1.1728
-1.4142	-1.1408	-1.2058	1.1096
1.454	1.0867	1.0792	6.498
2.1287	2.5847	2.9282	2.395
-1.0792	1.5801	1.2924	1.8532
1.1567	1.5801	1.2924	1.8532
-2.7511	-1.6133	-1.815	-1.3755
-1.0867	-1.0353	-1.2834	-1.0425
-3.8106	-1.9185	-2.3784	-2.0562
-1.3104	-1.1647	1.3472	-1.4641
1.3947	1.7777	2.0562	1.6935
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.5263	1.1647	1.1096	3.3404
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	2.2974	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0943	1.5583	1.2746	1.8277
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.1408	-1.021	1.7291	1.2142
1.3755	1.2058	-1.014	1.8404
-1.0792	1.5801	1.2924	1.8532
-1.6818	1.4641	1.3104	1.0867
-1.0792	1.5801	2.6945	1.8532
1.3947	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.454	-1.1487	-1.3566	-1.8532
1.8661	1.5692	1.3104	4.1989

Manba	-1.229	-1.0366	1.1105	-1.1817
Maoa	1.1995	1.9698	-1.1477	2.0981
Maob	1.1995	1.9562	-1.1477	2.0981
Mapk8	1.1427	-1.0882	-1.3744	-1.5485
Mbtps1	1.2592	1.0556	1.0361	-1.2234
Mbtps2	2.2855	2.6723	4.1446	1.4939
Mcl1	-1.2037	1.0483	-1.2048	-1.0359
Mdh1	-1.229	-1.0658	-1.2216	-1.7543
Mdh1b	1.1995	1.9562	-1.1477	2.0981
Mdh2	1.2163	-1.1908	-1.0131	-1.2066
Mdm2	1.3127	1.0629	1.1182	1.1244
Metap2	-1.1467	-1.4968	-1.4527	-1.3574
Mgmt	-1.5236	-1.1266	-1.3276	-1.2405
Mki67	1.3779	1.7753	-1.0344	-1.5062
Mlh1	2.4326	1.916	1.3298	-2.1301
Mlx	1.1913	-1.5073	-1.3744	-2.3309
Mpo	1.2079	1.6912	1.3672	-2.0862
Mrps18b	-1.1954	-3.3448	-1.5463	-2.6775
Msh2	1.5719	1.0411	-1.2823	-1.7063
Mtpp	-1.0122	1.6111	-1.3936	1.728
Nfkb1	-1.2724	-2.2531	-1.6804	-1.2665
Nploc4	1.3036	-1.4161	-1.256	1.1012
Nqo1	2.1177	-1.3679	-1.0561	-2.1007
Nr0b2	5.8664	1.9562	-1.0488	2.8072
Nr1h4	1.1995	1.9562	-1.1477	2.0981
Nr5a2	1.1995	1.9562	-1.1477	2.0981
Nucb1	1.7562	1.2381	1.2408	1.2916
Nudt1	1.1348	-1.1826	1.1738	1.0133
Nudt13	1.3402	1.4929	-1.1086	-1.1258
Nudt15	-1.5556	-1.9211	-1.1882	1.4939
Nup210	1.1587	1.0339	-1.0416	1.3843
Ogdhl	1.1995	1.9562	-1.1477	2.0981
Ogg1	1.1427	-1.0882	-1.525	-1.8543
Olfr1404	1.1995	1.9562	-1.1477	2.0981
Os9	1.0662	-1.1188	-1.0131	-1.7182
Osta	2.1177	-1.1111	2.0437	1.3558

-2.4623	-1.5801	-1.6133	1.7291
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.8025	-1.366	-1.815	-1.434
1.2058	1.5692	-1.021	1.4948
-1.0792	1.5801	1.2924	2.1735
-1.2311	-1.014	1.3947	2.0849
1.057	1.2142	-1.7171	-1.1408
-1.0792	1.5801	1.2924	1.8532
-1.2658	-1.0718	-1.1487	-1.0644
-2.0705	-2.1287	-1.6472	-1.1096
2.4453	1.7777	1.9453	1.6935
-1.3851	-1.6358	-2	-1.3947
1.1251	1.3287	1.014	1.4044
1.0718	-1.8277	-2.2346	-1.5583
-1.257	1.3566	2.0279	1.5911
-1.8661	-1.2483	-1.181	-1.1019
3.9177	2.4116	1.057	1.5157
-1.1019	-2.4453	-1.454	-2.0849
-1.0792	1.5801	1.2924	1.8532
-2.042	-1.4044	-1.2226	-1.6472
1.6021	1.5801	1.2924	1.8532
-1.3566	1.257	1.0281	1.4743
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
2.114	1.2397	1.9185	1.2311
-1.7411	-1.021	1.2483	1.1487
-1.007	2.3134	3.2944	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.1487	-1.879	-1.2397	1.1096
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-3.2266	2.0562	1.5692	2.114
-1.0792	1.5801	1.2924	1.8532

Ostb	2.3825	1.9562	1.7305	5.8527
Parp1	-1.8119	-1.3213	-1.9302	-1.7422
Parp2	1.5183	1.4123	1.2068	1.6348
Pcca	1.1587	1.5137	-1.2735	1.6576
Pcna	1.1587	-1.3679	-1.1398	-1.5378
Pdyn	1.3036	1.9562	-1.1477	2.0981
Pfdn5	1.0017	1.1876	-1.1319	-1.1899
Pnpla3	1.1995	1.9562	-1.1477	2.0981
Pon1	1.1995	1.9562	1.3024	2.0981
Por	1.5828	1.1713	-1.3368	1.1244
Pou3f3	1.1995	1.9562	-1.1477	2.0981
Ppara	1.1995	1.9562	-1.1477	2.0981
Pparg	1.1348	1.3361	1.804	5.1662
Ppia	1.3875	1.1314	1.0579	-1.7422
Ppp1r15b	1.4871	-1.1423	1.0078	1.1885
Prdx1	2.2855	1.1392	2.7155	3.2246
Prdx2	1.5395	-2.1915	-1.1086	-1.6828
Prdx6	-1.3356	-1.7678	-1.1086	-1.6368
Prkdc	2.1622	4.5887	1.9069	2.0981
Ptgs2	1.0962	1.7877	3.5094	1.9173
Ptprc	-1.3172	-1.0013	-1.1965	-2.2205
Pvr	1.2856	1.9562	-1.1477	2.0981
Rab25	1.1995	1.9562	-1.1477	2.0981
Rad51	1.3684	1.2126	-1.3368	-1.7665
Rdx	1.8435	1.763	1.1497	1.0063
Retn	2.775	1.9027	2.5513	19.6862
S100a7a	1.1995	1.9562	-1.1477	2.0981
S100a8	-1.1	-1.0013	1.0219	-1.9197
Sc4mol	3.1005	6.225	3.9757	4.1099
Scd1	-1.3923	-2.1613	-2.9257	-1.2149
Sdha	1.0299	-1.0439	-1.2387	-1.5485
Sdhb	-1.0407	-1.3966	-1.9037	-1.5272
Sdhc	-1.1388	1.2906	-1.8516	1.4734
Sdhd	-1.1388	-1.0224	-1.0131	1.2738
Sec62	1.1192	-1.0295	1.0148	-1.3203
Sel1l	2.4837	-1.6154	1.1657	1.0418

-1.0792	1.5801	1.5476	3.6808
1.4241	1.4142	-1.3472	1.0867
-1.0792	1.5801	1.2924	1.8532
2.395	1.5801	3.0525	2.4284
-1.1019	-1.6358	-1.3566	-2.3295
-1.0792	1.5801	1.2924	1.8532
-1	-1	-1.057	-1.2483
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.6702	1.4743	2.1585	1.7291
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.1567	1.4743	1.2058	1.7291
-1.5052	-1.4641	-1.014	-1.1173
-2.2974	-2.3295	-1.4948	-3.1167
-1.0792	1.5801	1.2924	1.8532
1.8277	1.3195	-1.0497	-1.1892
-1.3287	-1.6472	-1.2924	-1.021
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.5052	1.1647	-2.969	-1.0353
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.3104	-1.1329	-4.0278	-1.2483
-1.1975	1.0425	1.2746	1.3472
2.395	1.9725	1.2397	2.3134
-1.0792	1.5801	1.2924	1.8532
-1.8025	-1.3104	-1.1019	-1.1019
1.6935	2.7321	1.2924	1.9053
-1.0792	1.5801	1.2924	1.8532
-3.2944	2.0279	1.1019	1.3851
1.5263	-1.5911	-1.454	1.9053
1.9453	3.249	1.7532	2.5847
1.3104	1.5801	1.4948	1.8532
1.057	-1.007	-2.362	-2.2501
-1.0792	1.5801	1.2924	1.8532

Serp1	1.2247	1.0411	1.4653	-1.0076
Serpina3k	4.3847	3.4776	3.4851	5.4231
Serpina3n	1.1995	1.9562	-1.1477	2.0981
Slc10a1	10.3566	9.2412	6.1527	5.8527
Slc2a3	1.4464	-1.1908	-1.1319	1.1885
Slco1a4	1.1995	1.9562	-1.1477	2.0981
Smpd1	1.1587	-1.1582	1.4253	-1.0799
Sod1	1.2163	-1.8428	1.3298	-2.2988
Spata2	-1.6443	1.1632	-1.0202	-2.2829
Srebf1	-1.4717	-1.9479	-2.0832	-2.3309
Stbd1	1.1995	1.9562	-1.1477	2.0981
Sucla2	1.3684	-1.6724	-1.3744	-2.3309
Suc1g1	1.2418	1.703	1.9741	1.8265
Suc1g2	1.3402	1.2996	1.1182	1.3464
Sycp2	1.4974	1.8765	3.4851	2.0127
Syt1	1.2679	1.9562	-1.1477	2.0981
Syvn1	1.5395	1.9027	1.1105	1.728
Tagln	1.3402	-2.4485	-1.0344	-1.2753
Tcp1	1.3684	1.0126	1.0877	-1.5811
Tff3	1.1995	1.9562	-1.1477	2.0981
Tgfb1	-1.1154	1.4026	-1.2473	-1.1258
Tmem57	-1.0849	1.2042	1.0579	1.6462
Tnf	1.3036	-1.0013	-1.5897	1.0711
Tnfaip81l	3.0578	1.9562	2.8113	3.9425
Tnfrsf10b	1.1995	1.9562	-1.1477	2.0981
Tnfrsf1a	-1.229	1.0339	1.0148	1.0491
Tnfsf10	1.2768	-4.4442	-9.9782	-3.5086
Tpo	1.1995	1.9562	-1.1477	2.0981
Trim10	-1.6673	-2.5703	-4.6874	1.443
Trp53	1.5078	-1.1502	1.4858	1.148
Txnip	1.0736	1.2381	-1.2387	-1.96
Txn14b	1.9352	3.1125	4.6629	2.4101
Txnrd2	1.183	1.5889	-1.2735	1.8779
Ube2g2	1.1667	1.4825	-1.0709	-1.1026
Ube2j2	1.0962	1.0411	-1.0858	-1.5272
Ubqln2	3.2098	2.7665	2.6049	19.961

-3.4343	-3.7842	-1.0644	-3.249
1.9725	2.395	2.042	3.7321
-1.0792	1.5801	1.2924	1.8532
-1.4044	1.2142	1.0718	1.4241
1.2311	-1.2834	1.815	-1.5369
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.4743	1.8532
-1.2483	-2.7321	-2.2346	-3.1383
-1.0792	1.5801	1.2924	1.8532
5.2054	3.249	2.1886	2.4453
-1.0792	1.5801	1.2924	1.8532
-2.0562	-1.3195	-1.366	-1.879
-1.8025	-1.057	-1.2924	1.1096
-2.1735	-2.114	1.0867	2.8879
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
2.4967	1.0867	-1.1251	1.2746
1.2834	1.5801	1.2924	1.8532
-1.6358	-1	-1.1567	1.1975
-1.0792	1.5801	1.2924	1.8532
-1.1567	1.2226	-1.5583	-1.3472
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.9588	1.2924	1.8532
-1.0497	1.6702	1.3472	2.2815
-1.0792	1.5801	1.2924	1.8532
-2.9897	1.5801	1.1487	-1.4948
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
1.7171	1.5801	1.2924	1.8532
1.1019	-1.014	-1.2397	1.1567
-1.6358	1.0718	-1.2397	-1.3195
-1.0792	1.5801	1.454	1.8532
1.7777	-1.0497	1.0718	2.3784
1.4044	2.3295	1.8404	1.7053
1.0497	1.021	1	1.1647
2.4967	2.1435	1.9053	4.0278

Ubxn4	1.0962	-1.1111	1.1182	-1.465
Ucp1	1.1995	1.9562	-1.1477	2.0981
Ucp2	1.3127	1.1236	1.0008	-1.4854
Ucp3	1.1995	1.9562	-1.1477	2.0981
Ugt1a1	-1.402	1.1632	-1.9302	1.2476
Ugt2a1	1.1995	1.9562	-1.1477	2.0981
Ugt2b1	2.5184	1.9562	-1.1477	2.0981
Uox	1.1995	1.9562	-1.1477	2.0981
Vcp	1.1348	-1.5073	-1.5144	-1.5272
Wipi1	1.8308	1.9293	1.8419	1.2304
Xbp1	-1.2037	-1.1582	-1.413	-1.2066
Xiap	1.3127	-1.2763	1.6146	1.74
Xpa	-1.2991	-1.5932	-1.0709	-1.4249
Xpc	1.1995	-1.3397	-1.3002	-1.6945
Xrcc1	1.3589	1.4723	-1.0061	1.0346
Xrcc5	1.6964	1.9027	1.0506	2.4951

-2.3134	-1.2226	-1.9588	-2.3457
-1.0792	1.5801	1.2924	1.8532
-1.4845	1.2658	1.1251	-1.4743
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
-1.0792	1.5801	1.2924	1.8532
3.4822	1.5801	1.8404	1.8532
-1.0792	1.5801	1.2924	1.8532
-2.6027	-1.9053	-1.8661	1.0281
-1.5692	1.2226	1.3755	1.6472
-1.454	-2.969	-4.2281	-2.5847
-1.0792	1.5801	1.2924	1.8532
2.3134	1.5801	1.2924	3.1821
-1.0792	1.5801	1.2924	1.8532
1.434	1.6818	1.6021	1.0718
-2.4453	-1.6021	-1.8025	-1.366