SUPPLEMENTAL MATERIAL

Table S1. Full list of DEGs comparing SigFHI and SigFLO neutrophils

	SigF HI				
	p_val	avg_logFC	pct.1	pct.2	p_val_adj
Ppia	1.14E-112	1.2752113	0.884	0.364	1.86E-108
Ptma	8.26E-81	1.1393449	0.836	0.393	1.35E-76
AA467197	8.62E-71	1.4753909	0.703	0.275	1.40E-66
Hexb	2.40E-57	1.3247778	0.464	0.079	3.90E-53
Gngt2	4.46E-53	0.8839914	0.729	0.31	7.27E-49
Nfkbia	1.26E-50	0.8174537	0.903	0.709	2.06E-46
Ptgs1	1.10E-48	1.0959125	0.4	0.063	1.79E-44
Gpx1	6.24E-47	0.7082105	0.874	0.646	1.02E-42
Icam1	7.79E-46	1.0824787	0.531	0.16	1.27E-41
Cox7b	1.50E-44	0.9745576	0.546	0.197	2.44E-40
Cox6a1	8.00E-42	0.8266237	0.653	0.319	1.30E-37
Npm1	6.12E-41	0.9687616	0.393	0.082	9.97E-37
Minos1	9.06E-41	0.8872892	0.568	0.222	1.48E-36
Cox7a2	3.28E-40	0.8194835	0.689	0.388	5.34E-36
Tnf	1.48E-39	1.309528	0.557	0.233	2.41E-35
Snrpe	2.04E-39	0.9392895	0.444	0.124	3.33E-35
Fubp1	6.33E-39	0.928084	0.362	0.07	1.03E-34
Hsp90aa1	7.57E-39	0.8012235	0.709	0.397	1.23E-34
Eef1a1	1.05E-38	0.6244785	0.865	0.701	1.70E-34
Snrpg	7.05E-38	0.8920492	0.39	0.088	1.15E-33
Cst3	1.61E-37	0.5995831	0.925	0.801	2.63E-33
Mat2a	2.90E-37	0.9421209	0.464	0.148	4.72E-33
Hsp90ab1	4.25E-37	0.8397449	0.65	0.343	6.92E-33
Siglecf	5.49E-36	0.9125827	0.39	0.094	8.95E-32
Bcl2a1b	1.62E-35	0.743308	0.755	0.451	2.64E-31
Banf1	1.81E-35	0.9007335	0.303	0.048	2.95E-31
Calm1	3.00E-35	0.5511113	0.877	0.713	4.89E-31
Snrpf	6.19E-35	0.8949078	0.279	0.034	1.01E-30
Ran	6.31E-35	0.8617061	0.387	0.097	1.03E-30
Serbp1	1.35E-34	0.8206222	0.454	0.152	2.20E-30
Hint1	1.48E-34	0.8364667	0.435	0.133	2.42E-30
Rgs10	1.93E-34	0.8895722	0.32	0.058	3.15E-30
Mrpl52	6.37E-34	0.8853165	0.434	0.137	1.04E-29
Sh3bgrl3	8.41E-34	0.5577637	0.887	0.754	1.37E-29
Atp5g1	1.62E-33	0.9255905	0.355	0.087	2.63E-29
Hilpda	1.65E-33	1.3553228	0.365	0.091	2.70E-29
Ncf1	2.88E-33	0.5969279	0.82	0.557	4.70E-29
Snu13	1.58E-32	0.8367146	0.359	0.091	2.58E-28
Mrpl42	4.88E-32	0.8752497	0.274	0.04	7.95E-28
2010107E04F	9.59E-32	0.7945051	0.501	0.203	1.56E-27
Atp5g2	4.05E-31	0.8057457	0.364	0.097	6.61E-27

Uqcc2	2.99E-30	0.7955425	0.271	0.043	4.87E-26
Atp5b	3.02E-30	0.7238061	0.531	0.239	4.92E-26
Set	3.15E-30	0.7568253	0.429	0.143	5.14E-26
Chchd2	1.42E-29	0.5353214	0.814	0.643	2.32E-25
2810474O19I	1.61E-29	0.6136531	0.877	0.696	2.63E-25
Uqcrb	2.35E-29	0.7983681	0.327	0.082	3.83E-25
Uqcrq	5.04E-29	0.6869122	0.537	0.246	8.21E-25
Naca	1.89E-28	0.6890401	0.563	0.278	3.08E-24
Psmb3	2.15E-28	0.7404928	0.475	0.194	3.50E-24
Atp5o.1	2.35E-28	0.8168988	0.307	0.073	3.83E-24
Ybx1	4.24E-28	0.6737949	0.594	0.304	6.90E-24
Elob	4.70E-28	0.6451437	0.703	0.467	7.65E-24
Rbx1	5.72E-28	0.7174283	0.581	0.306	9.32E-24
Arpp19	2.50E-27	0.7081519	0.531	0.26	4.08E-23
Park7	3.10E-27	0.7583417	0.352	0.104	5.06E-23
Sumo2	3.50E-27	0.7082082	0.493	0.215	5.70E-23
Clec5a	4.60E-27	0.7841842	0.475	0.204	7.50E-23
Polr2f	5.10E-27	0.7622539	0.303	0.073	8.32E-23
Cnbp	5.96E-27	0.6843572	0.559	0.276	9.72E-23
Hnrnpa2b1	6.24E-27	0.5265877	0.767	0.545	1.02E-22
Cox6b1	7.11E-27	0.6249184	0.644	0.378	1.16E-22
Reep5	1.66E-26	0.646168	0.527	0.242	2.71E-22
Ndufa13	1.69E-26	0.6547293	0.626	0.361	2.75E-22
Atp5f1	2.25E-26	0.6013101	0.568	0.288	3.67E-22
Dusp2	2.53E-26	0.8744113	0.493	0.227	4.12E-22
Ndufc1	5.32E-26	0.8240678	0.269	0.06	8.66E-22
Snrpd3	6.49E-26	0.7582274	0.269	0.058	1.06E-21
Snrpb	8.39E-26	0.6921292	0.443	0.184	1.37E-21
Nme1	1.78E-25	0.7117558	0.286	0.069	2.90E-21
Gpr84	1.93E-25	0.8972645	0.256	0.051	3.14E-21
Nop10	2.04E-25	0.7260192	0.286	0.069	3.32E-21
Cd81	2.32E-25	0.7992773	0.268	0.06	3.79E-21
Pcbp2	3.50E-25	0.5717772	0.706	0.466	5.71E-21
Ccng1	7.82E-25	0.8150644	0.274	0.064	1.27E-20
Polr2k	1.33E-24	0.7434491	0.314	0.091	2.17E-20
Cdkn1a	1.73E-24	0.788334	0.542	0.275	2.82E-20
Atp5j	2.01E-24	0.6347213	0.545	0.287	3.27E-20
Lsm6	2.39E-24	0.7317768	0.259	0.057	3.90E-20
Cmtm7	2.64E-24	0.6715618	0.472	0.212	4.30E-20
Tmem258	2.66E-24	0.6940728	0.39	0.148	4.33E-20
Hnrnpab	3.05E-24	0.6740152	0.414	0.167	4.96E-20
Nol7	3.61E-24	0.703646	0.283	0.072	5.89E-20
Emc6	3.86E-24	0.6995638	0.269	0.063	6.30E-20

Hnrnpd	4.03E-24	0.6611769	0.414	0.163	6.56E-20
Psmb6	4.49E-24	0.6653997	0.298	0.081	7.31E-20
Clec4n	6.81E-24	0.6846588	0.61	0.336	1.11E-19
Eif4g2	7.15E-24	0.5756704	0.696	0.487	1.16E-19
Mrps14	7.69E-24	0.6590737	0.307	0.087	1.25E-19
Plin2	8.14E-24	0.6908193	0.531	0.275	1.33E-19
Srsf3	1.22E-23	0.6543298	0.525	0.269	1.98E-19
Dynll1	2.45E-23	0.5199977	0.699	0.418	4.00E-19
Dek	7.69E-23	0.6802285	0.32	0.101	1.25E-18
Atp5k	7.98E-23	0.6587175	0.4	0.161	1.30E-18
Frrs1	1.02E-22	0.7844784	0.251	0.058	1.66E-18
Pfn1	1.63E-22	0.3231094	0.951	0.91	2.65E-18
Hnrnpf	1.78E-22	0.5501074	0.685	0.472	2.90E-18
Pdap1	1.93E-22	0.6192839	0.289	0.081	3.15E-18
G3bp1	2.05E-22	0.7029816	0.297	0.087	3.34E-18
Taf10	2.67E-22	0.6150799	0.411	0.164	4.34E-18
Mrps24	3.09E-22	0.6679303	0.307	0.094	5.03E-18
Anp32b	3.87E-22	0.634223	0.349	0.122	6.30E-18
Ndufa2	4.50E-22	0.6133168	0.511	0.261	7.33E-18
Creb5	4.53E-22	0.7104708	0.266	0.067	7.38E-18
Jpt1	8.10E-22	0.6629531	0.412	0.179	1.32E-17
Tmem14c	8.23E-22	0.6730785	0.508	0.267	1.34E-17
Rbm8a	1.50E-21	0.6310071	0.347	0.124	2.45E-17
Pfdn6	1.51E-21	0.6537813	0.323	0.109	2.47E-17
Tmco1	1.87E-21	0.6421762	0.269	0.072	3.05E-17
Snrpd2	2.07E-21	0.6744916	0.262	0.069	3.38E-17
Tgfbr1	2.30E-21	0.6965217	0.411	0.179	3.75E-17
Pfdn2	2.84E-21	0.6541327	0.355	0.134	4.62E-17
Bcl2a1d	2.93E-21	0.7404601	0.435	0.201	4.77E-17
Dad1	5.61E-21	0.6504637	0.321	0.109	9.14E-17
Ndufb5	7.88E-21	0.6298476	0.277	0.082	1.28E-16
Rbm25	8.14E-21	0.5570052	0.627	0.391	1.33E-16
Ssb	1.35E-20	0.6280212	0.28	0.084	2.20E-16
Atp5a1	1.75E-20	0.5728204	0.388	0.16	2.85E-16
Prdx1	2.03E-20	0.7238147	0.344	0.134	3.31E-16
Aprt	2.04E-20	0.6570494	0.332	0.121	3.32E-16
N4bp2l2	2.35E-20	0.6936335	0.307	0.103	3.84E-16
Dbi	3.02E-20	0.6510265	0.259	0.073	4.93E-16
Tnfaip3	5.62E-20	0.5421629	0.609	0.367	9.16E-16
Hspa8	7.88E-20	0.4866978	0.795	0.645	1.28E-15
Cox6c	1.42E-19	0.6485842	0.539	0.33	2.32E-15
Tmed9	1.63E-19	0.5778493	0.303	0.1	2.65E-15
Sod1	1.65E-19	0.6192698	0.368	0.149	2.69E-15

St13	1.72E-19	0.5814973	0.353	0.137	2.81E-15
Gng5	1.74E-19	0.3735799	0.875	0.784	2.84E-15
Atp5j2	2.32E-19	0.6187287	0.504	0.276	3.77E-15
Zranb2	2.65E-19	0.6414368	0.283	0.094	4.32E-15
Atp5h	2.70E-19	0.5712407	0.542	0.325	4.41E-15
Bola2	3.07E-19	0.603289	0.266	0.081	5.00E-15
Pcbp1	4.08E-19	0.5606253	0.475	0.237	6.65E-15
1110008P14F	8.10E-19	0.6096763	0.314	0.116	1.32E-14
Klf2	8.50E-19	0.6816928	0.636	0.434	1.38E-14
Atp5e	9.90E-19	0.4983325	0.743	0.587	1.61E-14
B230219D22I	1.18E-18	0.6298736	0.262	0.082	1.92E-14
Tomm20	1.19E-18	0.5982344	0.361	0.149	1.94E-14
Psma3	1.54E-18	0.5929851	0.406	0.184	2.50E-14
Cox8a	1.57E-18	0.4032426	0.855	0.724	2.56E-14
Tomm7	4.03E-18	0.5360274	0.551	0.337	6.57E-14
Thrap3	5.87E-18	0.5819918	0.268	0.087	9.56E-14
Bcl2a1a	6.89E-18	0.6598649	0.373	0.163	1.12E-13
Btf3	8.92E-18	0.5237064	0.589	0.379	1.45E-13
Ndufb4	9.57E-18	0.5772331	0.295	0.107	1.56E-13
Lamtor2	9.99E-18	0.5746754	0.409	0.196	1.63E-13
Luc7l3	1.14E-17	0.6180097	0.297	0.109	1.85E-13
Mrps33	1.65E-17	0.5925532	0.309	0.118	2.69E-13
Capg	1.67E-17	0.6781119	0.314	0.127	2.72E-13
Alyref	1.83E-17	0.5827205	0.251	0.079	2.97E-13
Sqstm1	2.21E-17	0.5614303	0.542	0.316	3.61E-13
Cep83	2.24E-17	0.692379	0.3	0.116	3.65E-13
Ndufs7	2.52E-17	0.6039462	0.324	0.133	4.11E-13
Rack1	2.80E-17	0.484961	0.536	0.304	4.56E-13
Eif3c	4.57E-17	0.5842056	0.285	0.104	7.45E-13
Trmt112	4.92E-17	0.576278	0.275	0.097	8.02E-13
Romo1	5.13E-17	0.5599691	0.26	0.084	8.35E-13
Cox5a	6.85E-17	0.5583781	0.425	0.215	1.12E-12
Arpc1b	7.46E-17	0.3267717	0.892	0.806	1.22E-12
Mdm2	7.53E-17	0.7862307	0.373	0.178	1.23E-12
Fam49b	8.83E-17	0.4073376	0.756	0.601	1.44E-12
Skil	1.13E-16	0.3793065	0.773	0.597	1.83E-12
Map4k4	1.28E-16	0.6879224	0.367	0.179	2.08E-12
Papola	1.31E-16	0.5506514	0.358	0.158	2.14E-12
Bax	1.40E-16	0.5669992	0.269	0.094	2.29E-12
Atf4	1.51E-16	0.4837681	0.592	0.388	2.46E-12
H2afz	1.59E-16	0.4688085	0.647	0.446	2.60E-12
Usmg5	1.68E-16	0.4884306	0.487	0.275	2.73E-12
H2afy	1.73E-16	0.5933137	0.336	0.145	2.82E-12

Atp5c1	1.89E-16	0.5749256	0.39	0.191	3.08E-12
Llph	2.18E-16	0.5874455	0.304	0.118	3.56E-12
Ndufb3	2.44E-16	0.6189367	0.317	0.131	3.98E-12
Znrd1	3.68E-16	0.5288679	0.262	0.091	5.99E-12
Hmgb1	4.80E-16	0.4833904	0.534	0.322	7.83E-12
Cd24a	6.86E-16	0.4121501	0.735	0.563	1.12E-11
Tardbp	7.28E-16	0.5351123	0.253	0.087	1.19E-11
Ndufs5	7.64E-16	0.5627524	0.346	0.155	1.25E-11
Gm26532	8.44E-16	0.6104145	0.574	0.381	1.37E-11
Spcs1	1.55E-15	0.5156548	0.259	0.091	2.53E-11
Ube3a	1.65E-15	0.6099877	0.268	0.101	2.68E-11
Csde1	1.74E-15	0.4555576	0.577	0.369	2.84E-11
Ncl	1.79E-15	0.4780625	0.525	0.307	2.91E-11
Mob1a	1.88E-15	0.4348247	0.592	0.385	3.07E-11
Canx	2.18E-15	0.5203003	0.286	0.11	3.55E-11
Cox5b	3.20E-15	0.5011195	0.514	0.312	5.21E-11
Ndufa8	3.35E-15	0.5501908	0.285	0.112	5.46E-11
Vdac2	3.81E-15	0.504192	0.414	0.216	6.22E-11
Hnrnph1	5.63E-15	0.4813957	0.422	0.219	9.17E-11
Irf2bp2	6.48E-15	0.488326	0.498	0.282	1.06E-10
Srp14	6.62E-15	0.4988737	0.449	0.258	1.08E-10
Son	7.12E-15	0.3597117	0.782	0.636	1.16E-10
Eif3a	7.77E-15	0.5554217	0.42	0.225	1.27E-10
Polr1d	8.00E-15	0.51688	0.33	0.148	1.30E-10
Psmb5	8.82E-15	0.5555385	0.336	0.161	1.44E-10
Mbnl1	1.00E-14	0.5696748	0.447	0.257	1.63E-10
Ndufb8	1.08E-14	0.576075	0.274	0.107	1.75E-10
Zfp710	1.37E-14	0.5562832	0.279	0.113	2.23E-10
Ndufs6	1.97E-14	0.5038604	0.301	0.131	3.21E-10
Ndufb9	2.33E-14	0.4922277	0.492	0.307	3.80E-10
Tmed2	2.36E-14	0.4927059	0.438	0.242	3.84E-10
Eif5b	2.65E-14	0.5495266	0.271	0.109	4.32E-10
Mrpl57	2.93E-14	0.4966475	0.262	0.097	4.77E-10
Uqcr11	3.04E-14	0.5742784	0.365	0.185	4.95E-10
U2af1	3.08E-14	0.525295	0.282	0.115	5.02E-10
Sf3b5	4.26E-14	0.497638	0.39	0.203	6.95E-10
Cox4i1	5.49E-14	0.3749278	0.738	0.607	8.95E-10
Ndufa6	6.91E-14	0.501428	0.33	0.154	1.13E-09
Sec61g	7.40E-14	0.4472663	0.393	0.203	1.21E-09
Uqcr10	1.13E-13	0.5220696	0.419	0.237	1.83E-09
Dhx15	1.13E-13	0.5354731	0.259	0.103	1.85E-09
Rer1	1.25E-13	0.543054	0.347	0.173	2.03E-09
Nedd8	1.51E-13	0.4759599	0.501	0.325	2.47E-09

Ptp4a2	1.55E-13	0.4886005	0.438	0.245	2.53E-09
Ost4	1.92E-13	0.4445387	0.53	0.337	3.12E-09
Dnaja1	2.37E-13	0.43257	0.679	0.515	3.86E-09
Sf3b6	2.52E-13	0.4435898	0.447	0.263	4.10E-09
Phlda1	3.16E-13	0.5733049	0.304	0.14	5.14E-09
Selenof	3.22E-13	0.5153096	0.312	0.146	5.24E-09
Jund	3.23E-13	0.4007163	0.813	0.722	5.26E-09
Ywhae	3.38E-13	0.4952116	0.356	0.182	5.51E-09
Eif3j1	3.85E-13	0.4983773	0.309	0.145	6.28E-09
M6pr	4.94E-13	0.4570324	0.289	0.125	8.05E-09
Ppig	5.05E-13	0.520131	0.314	0.148	8.24E-09
Ndufb7	5.21E-13	0.4978511	0.423	0.242	8.49E-09
Dynlrb1	7.01E-13	0.5347459	0.303	0.14	1.14E-08
Plekho2	7.69E-13	0.385019	0.556	0.352	1.25E-08
Tra2b	8.03E-13	0.4395474	0.399	0.213	1.31E-08
Kif5b	8.17E-13	0.4044744	0.466	0.276	1.33E-08
Ndufa3	8.55E-13	0.4807761	0.443	0.257	1.39E-08
Mdh2	1.08E-12	0.4468045	0.473	0.297	1.76E-08
Mien1	1.29E-12	0.4538651	0.271	0.118	2.11E-08
Ndufa1	1.57E-12	0.5002983	0.346	0.181	2.55E-08
Hnrnpu	1.83E-12	0.4436281	0.603	0.442	2.99E-08
Psme2	1.87E-12	0.48667	0.297	0.14	3.05E-08
Spcs2	2.13E-12	0.5007659	0.3	0.142	3.47E-08
Jun	2.20E-12	0.6819352	0.47	0.291	3.58E-08
Itch	2.36E-12	0.5942352	0.297	0.148	3.85E-08
Cited2	2.40E-12	0.4977048	0.39	0.213	3.91E-08
Pabpc1	2.45E-12	0.4381044	0.642	0.506	4.00E-08
Fam105a	2.94E-12	0.5188873	0.292	0.136	4.79E-08
Tmem167	3.06E-12	0.4917514	0.307	0.148	4.99E-08
Hsp90b1	3.64E-12	0.441682	0.307	0.146	5.92E-08
Mrfap1	4.21E-12	0.4355836	0.37	0.197	6.86E-08
Arglu1	4.23E-12	0.5214861	0.251	0.106	6.90E-08
Mpc2	4.36E-12	0.4430532	0.361	0.193	7.11E-08
Abracl	4.99E-12	0.4587052	0.449	0.266	8.13E-08
Eef1d	5.31E-12	0.4975727	0.253	0.107	8.65E-08
Tma7	5.96E-12	0.4321081	0.492	0.306	9.71E-08
Eloc	1.03E-11	0.4258893	0.402	0.228	1.68E-07
Ptk2b	1.05E-11	0.4506495	0.42	0.246	1.71E-07
Rbm3	1.14E-11	0.3964795	0.463	0.281	1.86E-07
Bag1	1.17E-11	0.4344194	0.285	0.133	1.91E-07
Ube2i	1.53E-11	0.4188482	0.431	0.257	2.50E-07
Hnrnpa0	1.55E-11	0.4424107	0.381	0.209	2.52E-07
1810037I17R	1.76E-11	0.417554	0.42	0.245	2.87E-07

Jak2	1.96E-11	0.4887977	0.367	0.204	3.20E-07
Tpm3	1.97E-11	0.3600304	0.641	0.472	3.21E-07
Srsf2	2.10E-11	0.4649779	0.365	0.201	3.42E-07
Ndufa7	2.20E-11	0.4167394	0.545	0.367	3.58E-07
Pnisr	2.42E-11	0.4538674	0.422	0.251	3.95E-07
Cnih4	3.18E-11	0.436948	0.385	0.221	5.18E-07
Tpr	3.78E-11	0.4616026	0.402	0.228	6.16E-07
Snrnp70	3.99E-11	0.4493626	0.306	0.154	6.50E-07
Kdm5a	4.34E-11	0.4922809	0.251	0.115	7.07E-07
Celf1	4.73E-11	0.4809927	0.288	0.142	7.71E-07
Gcnt1	5.14E-11	0.3537858	0.419	0.245	8.37E-07
Psmb1	5.77E-11	0.4540741	0.295	0.151	9.41E-07
Eif3h	6.30E-11	0.4686864	0.292	0.148	1.03E-06
Brd2	6.76E-11	0.4224916	0.518	0.349	1.10E-06
Rhoa	6.89E-11	0.3190284	0.788	0.673	1.12E-06
Eif2s2	8.57E-11	0.5271223	0.314	0.169	1.40E-06
Prpf40a	8.77E-11	0.3898384	0.371	0.204	1.43E-06
Atp5l	9.33E-11	0.3450808	0.766	0.657	1.52E-06
Atp6v1f	9.55E-11	0.3865171	0.514	0.351	1.56E-06
Ptges3	1.25E-10	0.4669534	0.326	0.182	2.03E-06
Magoh	1.51E-10	0.4041785	0.335	0.176	2.45E-06
Eif1b	1.70E-10	0.4895984	0.269	0.133	2.77E-06
Cks2	2.53E-10	0.5123122	0.396	0.239	4.12E-06
Ywhab	2.57E-10	0.430967	0.346	0.194	4.18E-06
Srp9	2.89E-10	0.4319493	0.411	0.252	4.71E-06
Hnrnpk	3.79E-10	0.3729477	0.534	0.364	6.17E-06
Smdt1	4.13E-10	0.4344052	0.368	0.213	6.73E-06
Snx3	4.23E-10	0.3769796	0.362	0.21	6.89E-06
Psma2	4.48E-10	0.4354737	0.32	0.176	7.30E-06
Zmiz1	5.65E-10	0.4497802	0.356	0.203	9.21E-06
Asah1	6.32E-10	0.4379448	0.288	0.148	1.03E-05
Psma7	7.06E-10	0.4159968	0.373	0.218	1.15E-05
Ssr4	8.69E-10	0.471641	0.311	0.17	1.42E-05
Gnb1	8.76E-10	0.4185653	0.414	0.269	1.43E-05
Srsf6	9.00E-10	0.4089482	0.263	0.13	1.47E-05
Cflar	9.27E-10	0.5059188	0.336	0.194	1.51E-05
Pbrm1	1.15E-09	0.4218137	0.298	0.158	1.88E-05
Mif	1.19E-09	0.3921942	0.387	0.231	1.94E-05
Cdk12	1.20E-09	0.4473849	0.265	0.133	1.96E-05
Snrpc	1.30E-09	0.459193	0.272	0.142	2.12E-05
Ergic2	1.31E-09	0.3796106	0.285	0.146	2.14E-05
Slbp	1.35E-09	0.4796342	0.263	0.134	2.20E-05
Ubl5	1.41E-09	0.3492001	0.654	0.531	2.29E-05

Ubxn1	1.45E-09	0.4025232	0.347	0.203	2.36E-05
Prrc2c	1.49E-09	0.3569657	0.534	0.372	2.43E-05
Mrps21	1.65E-09	0.4256752	0.304	0.169	2.69E-05
Atox1	2.21E-09	0.2874294	0.67	0.512	3.60E-05
Mapre1	2.82E-09	0.4165003	0.37	0.221	4.59E-05
Gtf2h5	3.14E-09	0.4308574	0.259	0.131	5.11E-05
Ccrl2	3.19E-09	0.30241	0.651	0.476	5.20E-05
Ptpn6	3.75E-09	0.3310579	0.521	0.349	6.11E-05
Psma1	3.84E-09	0.411253	0.292	0.157	6.26E-05
Atpif1	4.55E-09	0.4455421	0.263	0.136	7.41E-05
Ski	5.01E-09	0.3920643	0.381	0.23	8.16E-05
Mef2a	5.11E-09	0.350505	0.499	0.351	8.33E-05
Alas1	5.27E-09	0.4434594	0.349	0.209	8.58E-05
Atp5d	5.36E-09	0.3721417	0.3	0.163	8.73E-05
Pum2	6.06E-09	0.3369142	0.556	0.39	9.88E-05

SigF LO

	p_val	avg_logFC	pct.1	pct.2	p_val_adj
Slpi	1.68E-127	2.3466051	0.773	0.148	2.73E-123
Retnlg	9.49E-122	3.3717243	0.669	0.053	1.55E-117
Grina	3.43E-113	1.3934153	0.884	0.405	5.59E-109
S100a11	9.76E-108	0.9349794	0.982	0.912	1.59E-103
Ccl6	5.04E-104	1.9476021	0.74	0.212	8.21E-100
Sell	5.93E-94	1.73433	0.606	0.076	9.66E-90
Msrb1	2.61E-92	0.9591929	0.961	0.721	4.25E-88
Srgn	2.23E-81	0.6488181	0.996	0.974	3.64E-77
Slc7a11	4.22E-78	1.0459054	0.915	0.572	6.88E-74
Hdc	1.45E-77	1.2217219	0.791	0.367	2.37E-73
Taldo1	3.35E-73	1.0571176	0.818	0.521	5.45E-69
Clec4d	3.39E-70	0.836707	0.949	0.761	5.53E-66
Actg1	7.17E-70	0.7487872	0.981	0.915	1.17E-65
Vps37b	9.45E-70	1.5522767	0.599	0.163	1.54E-65
Gda	4.56E-69	1.5041355	0.599	0.163	7.44E-65
Mxd1	1.20E-67	0.9079721	0.928	0.607	1.96E-63
S100a6	3.99E-67	1.1025988	0.912	0.633	6.50E-63
Entpd1	1.57E-60	1.1441479	0.654	0.237	2.56E-56
Adam8	4.81E-60	1.2644197	0.521	0.119	7.83E-56
Ifitm2	6.68E-60	0.9092764	0.909	0.683	1.09E-55
Slc16a3	2.68E-59	1.0875602	0.7	0.297	4.36E-55
H2-D1	2.04E-57	0.6715068	0.927	0.776	3.32E-53
Hp	6.46E-56	1.1306351	0.646	0.253	1.05E-51
Jaml	4.30E-55	1.2940452	0.433	0.064	7.01E-51
S100a9	3.22E-53	0.954252	0.946	0.799	5.25E-49
Fgl2	1.67E-51	1.0048561	0.679	0.304	2.73E-47
S100a8	7.57E-49	0.7638233	0.969	0.811	1.23E-44
Lmnb1	2.23E-47	0.7367647	0.864	0.616	3.64E-43
Acod1	8.69E-45	1.0843033	0.663	0.303	1.42E-40
Asprv1	4.56E-44	1.5641525	0.342	0.041	7.44E-40
Slc15a3	1.74E-43	0.9576972	0.519	0.177	2.84E-39
Mcemp1	3.92E-43	0.9403597	0.554	0.21	6.39E-39
Ndel1	1.26E-42	0.8185335	0.751	0.478	2.05E-38
Selplg	1.27E-42	0.820086	0.701	0.394	2.06E-38
Btg1	3.52E-42	0.5232237	0.985	0.91	5.74E-38
Trim30b	1.87E-41	1.0027372	0.479	0.149	3.04E-37
Txn1	2.24E-39	0.6803222	0.881	0.737	3.64E-35
Cebpb	1.75E-38	0.4506408	0.988	0.959	2.85E-34
Sh2d3c	2.27E-38	1.0817048	0.357	0.068	3.70E-34
Slfn4	7.80E-38	1.4833033	0.44	0.14	1.27E-33
Tpd52	1.69E-37	0.6371773	0.872	0.699	2.76E-33

AC110211.1	1.94E-37	0.9951893	0.376	0.088	3.16E-33
Ncf2	2.59E-37	0.7617167	0.712	0.432	4.22E-33
Csf3r	2.90E-37	0.4916786	0.952	0.846	4.73E-33
Selenon	2.60E-36	0.944471	0.393	0.102	4.24E-32
Impact	5.85E-35	1.0220645	0.312	0.052	9.53E-31
Lrg1	4.73E-34	1.1904111	0.346	0.079	7.71E-30
Ankrd33b	5.53E-34	0.8746349	0.515	0.216	9.01E-30
Neat1	1.77E-33	0.4786035	0.97	0.918	2.88E-29
Ifitm3	7.91E-33	1.0142363	0.661	0.384	1.29E-28
Itgal	1.02E-32	0.8664089	0.509	0.224	1.67E-28
Isg15	4.89E-32	1.417037	0.285	0.047	7.96E-28
Cd300ld	5.21E-32	0.6859663	0.716	0.473	8.49E-28
Rdh12	1.17E-31	1.0686621	0.261	0.033	1.90E-27
Litaf	2.07E-31	0.5474352	0.861	0.658	3.37E-27
Rnf149	2.47E-31	0.6843906	0.819	0.659	4.02E-27
Slc40a1	4.08E-31	1.0336384	0.318	0.07	6.66E-27
Pla2g7	9.84E-31	0.7191066	0.63	0.341	1.60E-26
Rassf3	1.35E-30	0.803644	0.422	0.152	2.19E-26
Samhd1	1.38E-30	0.7687372	0.654	0.399	2.25E-26
Rnf144a	5.66E-30	0.8719941	0.272	0.046	9.22E-26
Coq10b	6.89E-30	0.7247156	0.567	0.288	1.12E-25
Fyb	7.83E-30	0.6697375	0.575	0.286	1.28E-25
Cd9	7.37E-29	0.5388245	0.851	0.648	1.20E-24
H2-Q10	2.17E-28	0.7850576	0.427	0.158	3.54E-24
Slc2a3	3.67E-28	1.0197895	0.399	0.14	5.98E-24
Osm	5.30E-28	1.0502603	0.327	0.09	8.63E-24
Fam129a	3.78E-27	0.810462	0.36	0.117	6.16E-23
Smox	9.37E-27	0.8696013	0.34	0.107	1.53E-22
Cd33	1.92E-26	0.6233785	0.684	0.419	3.14E-22
Il1f9	4.12E-26	0.8186647	0.315	0.082	6.72E-22
Sorl1	1.00E-25	0.5557555	0.76	0.528	1.63E-21
Ftl1	3.48E-25	0.3875596	0.997	0.991	5.67E-21
Rab7	3.82E-25	0.7085998	0.758	0.601	6.23E-21
Prr13	4.42E-25	0.7299998	0.504	0.266	7.21E-21
Fosl2	7.58E-25	0.5300914	0.761	0.537	1.23E-20
Dusp1	9.01E-25	0.422393	0.922	0.781	1.47E-20
Hcar2	1.29E-24	0.5911269	0.634	0.355	2.10E-20
Lamp2	2.40E-24	0.7529612	0.603	0.37	3.91E-20
Ets2	6.44E-24	0.4816519	0.87	0.703	1.05E-19
Wfdc21	8.52E-24	0.9148799	0.322	0.1	1.39E-19
Map1lc3b	9.02E-24	0.5103827	0.776	0.6	1.47E-19
Plk3	2.18E-23	0.7289722	0.473	0.225	3.55E-19
Tpm4	6.16E-23	0.699939	0.436	0.196	1.00E-18

Sat1	6.55E-23	0.5991152	0.697	0.499	1.07E-18
Mrpl33	9.06E-23	0.6109526	0.649	0.44	1.48E-18
Pnrc1	9.13E-23	0.4711381	0.86	0.697	1.49E-18
Braf	1.23E-22	0.7193706	0.407	0.172	2.00E-18
Gadd45a	2.47E-22	0.8279753	0.369	0.146	4.02E-18
Btg2	2.51E-22	0.398657	0.954	0.865	4.09E-18
Stfa2l1	3.45E-22	1.0756667	0.39	0.163	5.62E-18
Gla	7.44E-22	0.763974	0.337	0.122	1.21E-17
Kpna4	2.08E-21	0.6205195	0.581	0.362	3.38E-17
Lilr4b	5.88E-21	0.6001344	0.694	0.508	9.58E-17
Wfdc17	6.81E-21	1.0600872	0.355	0.146	1.11E-16
Klf3	6.93E-21	0.6583864	0.501	0.274	1.13E-16
Il1b	8.61E-21	0.3868369	0.993	0.971	1.40E-16
Thbs1	1.64E-20	1.2312609	0.479	0.275	2.67E-16
Gsr	1.86E-20	0.4128982	0.833	0.63	3.04E-16
Csrnp1	2.68E-20	0.6213042	0.634	0.42	4.37E-16
Hmox1	3.78E-20	0.8622359	0.425	0.212	6.17E-16
Rilpl2	4.56E-20	0.8145225	0.252	0.07	7.43E-16
Dhrs9	1.74E-19	0.7266821	0.297	0.105	2.84E-15
Por	1.83E-19	0.6653094	0.34	0.139	2.99E-15
Tlr2	1.22E-18	0.8003485	0.33	0.135	1.98E-14
Tgm2	1.38E-18	0.6793521	0.519	0.314	2.24E-14
Ifitm1	1.39E-18	0.7282181	0.6	0.39	2.27E-14
Cd84	1.91E-18	0.6348728	0.321	0.123	3.11E-14
Cxcr2	2.32E-18	0.4637112	0.779	0.616	3.77E-14
Arg2	2.98E-18	0.5502656	0.484	0.269	4.86E-14
Trem3	3.13E-18	0.6325835	0.39	0.189	5.10E-14
Fcgr4	3.22E-18	0.6560773	0.266	0.085	5.25E-14
Ccr1	4.94E-18	0.41741	0.873	0.734	8.05E-14
Kctd12	5.30E-18	0.5010671	0.77	0.589	8.63E-14
Sgms2	5.51E-18	0.7402777	0.269	0.091	8.98E-14
Gpcpd1	7.08E-18	0.671419	0.484	0.277	1.15E-13
Notch2	8.46E-18	0.6357672	0.325	0.131	1.38E-13
Emilin2	1.54E-17	0.5583533	0.542	0.339	2.51E-13
Sephs2	1.83E-17	0.6846986	0.275	0.1	2.98E-13
Hcst	2.17E-17	0.5535448	0.439	0.23	3.54E-13
Zyx	2.52E-17	0.5555954	0.634	0.464	4.11E-13
Lcn2	4.78E-17	0.9891395	0.322	0.14	7.79E-13
Ripor2	5.92E-17	0.6770042	0.272	0.099	9.65E-13
Homer1	6.02E-17	0.6697555	0.339	0.152	9.80E-13
Cd300lf	7.63E-17	0.480074	0.682	0.505	1.24E-12
Pglyrp1	7.93E-17	0.5745206	0.587	0.402	1.29E-12
Oasl2	1.82E-16	0.8172493	0.306	0.129	2.96E-12

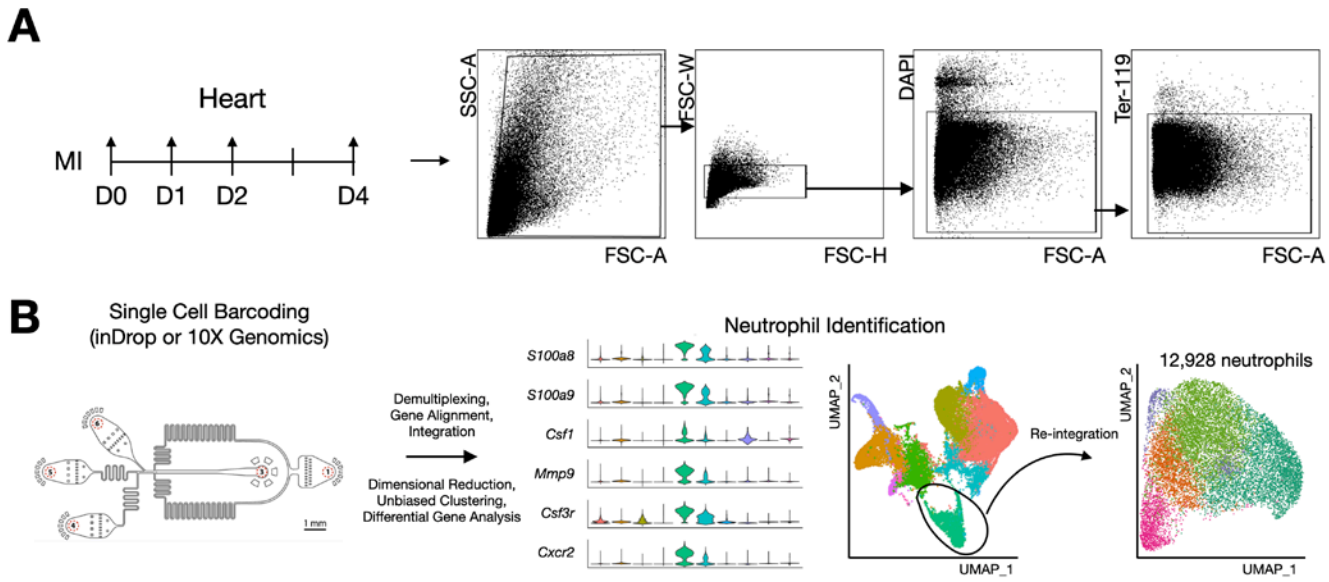
Ell2	1.93E-16	0.5639098	0.473	0.269	3.14E-12
Tspan13	1.98E-16	0.6196403	0.387	0.195	3.23E-12
Trim30a	2.87E-16	0.6761583	0.373	0.181	4.69E-12
Cnn2	6.11E-16	0.5506251	0.34	0.158	9.96E-12
Smchd1	6.53E-16	0.7553573	0.416	0.227	1.06E-11
Trim12c	7.28E-16	0.6517898	0.315	0.137	1.19E-11
AB124611	1.47E-15	0.5668232	0.319	0.142	2.40E-11
Trib1	1.88E-15	0.4667091	0.628	0.441	3.06E-11
Tcn2	2.88E-15	0.582866	0.296	0.122	4.70E-11
Hacd4	4.08E-15	0.5944462	0.251	0.093	6.65E-11
Slc11a1	8.31E-15	0.6128317	0.324	0.151	1.35E-10
Pirb	2.07E-14	0.4821565	0.473	0.283	3.38E-10
Ctsd	2.09E-14	0.4365001	0.793	0.668	3.40E-10
Sidt2	2.33E-14	0.5770115	0.258	0.102	3.79E-10
Ube2b	2.62E-14	0.4245767	0.646	0.473	4.27E-10
Samsn1	2.95E-14	0.3937867	0.807	0.656	4.81E-10
H2-T23	3.82E-14	0.5850378	0.316	0.149	6.23E-10
Sp100	5.35E-14	0.5893386	0.257	0.102	8.71E-10
Slfn1	5.63E-14	0.5277458	0.418	0.237	9.17E-10
Rnf11	9.58E-14	0.558505	0.348	0.177	1.56E-09
Hif1a	1.01E-13	0.5516845	0.34	0.174	1.64E-09
Ddx6	1.21E-13	0.5229253	0.619	0.484	1.98E-09
Cd44	1.35E-13	0.3173506	0.881	0.766	2.20E-09
Per1	1.57E-13	0.5571419	0.339	0.174	2.56E-09
Cd53	2.66E-13	0.3143613	0.824	0.693	4.34E-09
Cwc25	2.87E-13	0.7425001	0.306	0.149	4.68E-09
Nr3c1	5.05E-13	0.5105428	0.351	0.187	8.23E-09
Osgin1	5.68E-13	0.5670304	0.324	0.16	9.26E-09
Xylt1	7.48E-13	0.488502	0.315	0.151	1.22E-08
Igf1r	8.60E-13	0.5101146	0.507	0.341	1.40E-08
Il1rap	8.96E-13	0.6140128	0.313	0.16	1.46E-08
Baz2b	9.39E-13	0.4893006	0.404	0.234	1.53E-08
Raf1	1.91E-12	0.5024762	0.29	0.137	3.10E-08
Tgoln1	2.15E-12	0.5873083	0.455	0.3	3.50E-08
Themis2	2.89E-12	0.4758651	0.33	0.17	4.72E-08
Dgat1	3.26E-12	0.6109458	0.291	0.143	5.31E-08
Stx11	3.26E-12	0.704645	0.279	0.137	5.31E-08
Cytip	3.35E-12	0.3969438	0.603	0.44	5.46E-08
Myl12b	3.82E-12	0.3716999	0.631	0.489	6.22E-08
Cdc42ep3	5.39E-12	0.6433138	0.258	0.114	8.79E-08
Dmxl2	5.42E-12	0.5518034	0.304	0.154	8.83E-08
Ptgs2os2	7.20E-12	0.5685251	0.312	0.163	1.17E-07
Tgfbi	7.75E-12	0.4073444	0.525	0.358	1.26E-07

Tnrc6b	9.31E-12	0.4605167	0.466	0.298	1.52E-07
Il1r2	1.21E-11	0.3381715	0.893	0.767	1.97E-07
Tnfrsf1a	1.84E-11	0.4050739	0.494	0.324	2.99E-07
Sik1	2.00E-11	0.4583134	0.304	0.155	3.25E-07
Fam32a	3.24E-11	0.4479572	0.385	0.233	5.29E-07
B2m	3.44E-11	0.2749248	0.943	0.881	5.61E-07
Ssh2	4.23E-11	0.3647779	0.591	0.429	6.90E-07
Trf	4.85E-11	0.5665764	0.252	0.119	7.90E-07
Abr	4.96E-11	0.4676704	0.37	0.216	8.09E-07
Trem1	6.18E-11	0.4250618	0.713	0.594	1.01E-06
Rabgef1	1.05E-10	0.4238073	0.564	0.428	1.70E-06
Cux1	1.18E-10	0.4815294	0.364	0.216	1.92E-06
Psap	1.33E-10	0.3962949	0.66	0.533	2.16E-06
Arpc3	1.43E-10	0.3115648	0.822	0.709	2.33E-06
Gm5483	1.51E-10	1.1763132	0.281	0.151	2.47E-06
Gm5150	1.77E-10	0.4066884	0.324	0.172	2.89E-06
Nsd3	2.04E-10	0.4428162	0.455	0.309	3.33E-06
Tiparp	2.17E-10	0.58739	0.322	0.18	3.53E-06
Smap2	2.17E-10	0.459471	0.294	0.155	3.53E-06
Fmnl1	4.01E-10	0.4086138	0.345	0.201	6.53E-06
Anxa2	4.45E-10	0.3329549	0.679	0.572	7.26E-06
Diaph1	5.20E-10	0.4282019	0.524	0.384	8.47E-06
Lilrb4a	6.38E-10	0.3654681	0.512	0.367	1.04E-05
Atf3	8.38E-10	0.4007455	0.594	0.437	1.37E-05
Fem1c	8.88E-10	0.3335642	0.475	0.314	1.45E-05
Gm34084	9.10E-10	0.4725656	0.336	0.193	1.48E-05
Adipor1	9.46E-10	0.3290483	0.664	0.527	1.54E-05
Arpc5	9.99E-10	0.2980353	0.684	0.565	1.63E-05
Snx20	1.08E-09	0.3439258	0.528	0.373	1.76E-05
Kras	1.22E-09	0.3808269	0.388	0.242	2.00E-05
Ppp1r3b	2.14E-09	0.4563939	0.251	0.126	3.48E-05
Tmcc1	2.39E-09	0.4619468	0.393	0.254	3.90E-05
Sdcbp	2.61E-09	0.2722756	0.827	0.732	4.25E-05
G0s2	2.72E-09	0.6004985	0.519	0.373	4.43E-05
Hmgb2	3.41E-09	0.3421397	0.664	0.56	5.56E-05
Plaur	3.49E-09	0.5530572	0.487	0.365	5.68E-05
Trim12a	3.73E-09	0.5209816	0.261	0.139	6.07E-05
Pygl	3.80E-09	0.3626497	0.494	0.356	6.19E-05
Gmfg	5.28E-09	0.266489	0.776	0.659	8.61E-05
Nup98	5.30E-09	0.4280891	0.391	0.256	8.64E-05
7-Mar	6.84E-09	0.3559774	0.685	0.584	1.11E-04
Sbno2	7.25E-09	0.4633506	0.328	0.199	1.18E-04
Apbb1ip	8.28E-09	0.3443977	0.53	0.39	1.35E-04

Fth1	1.01E-08	0.2665746	0.999	1	1.65E-04
Dusp16	1.03E-08	0.4198922	0.312	0.177	1.68E-04
Antxr2	1.10E-08	0.4280011	0.391	0.254	1.79E-04
Ptgs2	1.27E-08	0.2697111	0.663	0.507	2.08E-04
Prdx5	1.86E-08	0.309268	0.763	0.705	3.03E-04
Pbx1	2.41E-08	0.4513709	0.282	0.164	3.93E-04
Ifi27l2a	2.66E-08	0.7230321	0.281	0.164	4.34E-04
Lsp1	2.84E-08	0.2739546	0.831	0.75	4.63E-04
Cd14	3.00E-08	0.4647818	0.472	0.338	4.88E-04
Emd	3.51E-08	0.4234798	0.324	0.205	5.72E-04
Map2k3	3.63E-08	0.3924819	0.378	0.254	5.91E-04
Lyz2	4.63E-08	0.3076283	0.761	0.68	7.54E-04
Zcchc6	5.43E-08	0.31433	0.69	0.583	8.86E-04
Cpd	6.68E-08	0.4357795	0.276	0.161	1.09E-03
Trps1	7.89E-08	0.3446763	0.34	0.21	1.29E-03
Hnrnph2	1.22E-07	0.3441888	0.39	0.268	1.98E-03
Ptp4a1	1.51E-07	0.311192	0.625	0.501	2.46E-03
Msl1	1.69E-07	0.2820181	0.261	0.145	2.76E-03
Nr4a3	3.84E-07	0.4084451	0.425	0.295	6.26E-03
2310001H17I	3.88E-07	0.2861997	0.499	0.373	6.32E-03
Itgam	3.98E-07	0.3109874	0.548	0.429	6.48E-03
Clk1	4.67E-07	0.2742105	0.557	0.437	7.60E-03
Cdc42se1	4.99E-07	0.3755912	0.251	0.148	8.13E-03
Mpc1	6.21E-07	0.3514935	0.336	0.224	1.01E-02
Spag9	6.56E-07	0.2957821	0.678	0.588	1.07E-02
1600010M07	6.64E-07	0.3311683	0.293	0.184	1.08E-02
Lrrfip1	7.40E-07	0.2709742	0.494	0.374	1.21E-02
Efhd2	1.50E-06	0.3046036	0.636	0.542	2.44E-02
Lyst	2.53E-06	0.2925603	0.667	0.581	4.12E-02
Ccl4	2.91E-06	0.5209606	0.413	0.307	4.74E-02
Stat3	4.10E-06	0.258027	0.545	0.451	6.68E-02
Ago2	5.18E-06	0.2806479	0.488	0.387	8.45E-02
Gcnt2	6.07E-06	0.3082428	0.493	0.384	9.88E-02
Spi1	6.10E-06	0.2503554	0.645	0.565	9.93E-02
Tnrc18	6.14E-06	0.3153834	0.334	0.23	1.00E-01
Ptafr	6.43E-06	0.2585978	0.64	0.528	1.05E-01
Rab8b	7.25E-06	0.325133	0.422	0.327	1.18E-01
Anxa11	7.70E-06	0.3416099	0.252	0.161	1.25E-01
Akap13	9.03E-06	0.3102808	0.506	0.416	1.47E-01
Kdm7a	9.40E-06	0.3035571	0.578	0.479	1.53E-01
Dennd5a	1.01E-05	0.2834519	0.33	0.23	1.65E-01
Tra2a	1.02E-05	0.4073068	0.512	0.422	1.67E-01
Atp6v0d1	1.07E-05	0.318317	0.3	0.201	1.74E-01

Gng2	1.68E-05	0.2806499	0.285	0.189	2.73E-01
Glrx	2.15E-05	0.3144559	0.263	0.169	3.50E-01
Pgk1	2.46E-05	0.3147719	0.252	0.16	4.01E-01
Anxa1	2.56E-05	0.3569852	0.366	0.272	4.17E-01
Nisch	2.82E-05	0.350604	0.304	0.213	4.60E-01
Vps4b	3.15E-05	0.3020675	0.396	0.303	5.13E-01
Snap23	3.39E-05	0.2760551	0.548	0.467	5.53E-01
Pag1	4.09E-05	0.2769252	0.313	0.221	6.67E-01
Svil	4.58E-05	0.369336	0.251	0.17	7.46E-01
Arhgap45	5.70E-05	0.2887211	0.321	0.233	9.29E-01
Zfand5	5.78E-05	0.3243159	0.518	0.435	9.42E-01
Csf2ra	6.47E-05	0.2759189	0.463	0.382	1.00E+00
Gpi1	8.70E-05	0.2774952	0.334	0.247	1.00E+00
Ogt	2.01E-04	0.2772629	0.427	0.352	1.00E+00
Cfap43	2.45E-04	0.271467	0.301	0.222	1.00E+00
Jdp2	4.22E-04	0.2752812	0.401	0.324	1.00E+00
Sde2	4.72E-04	0.2902741	0.393	0.318	1.00E+00
Tes	4.98E-04	0.3210798	0.252	0.18	1.00E+00
Mef2d	5.34E-04	0.265803	0.3	0.227	1.00E+00
Lpin2	6.56E-04	0.2903655	0.304	0.228	1.00E+00
Srpk2	7.19E-04	0.2703028	0.278	0.205	1.00E+00
Sbno1	8.02E-04	0.3200297	0.448	0.394	1.00E+00
Mirt1	1.73E-03	0.2956434	0.403	0.336	1.00E+00

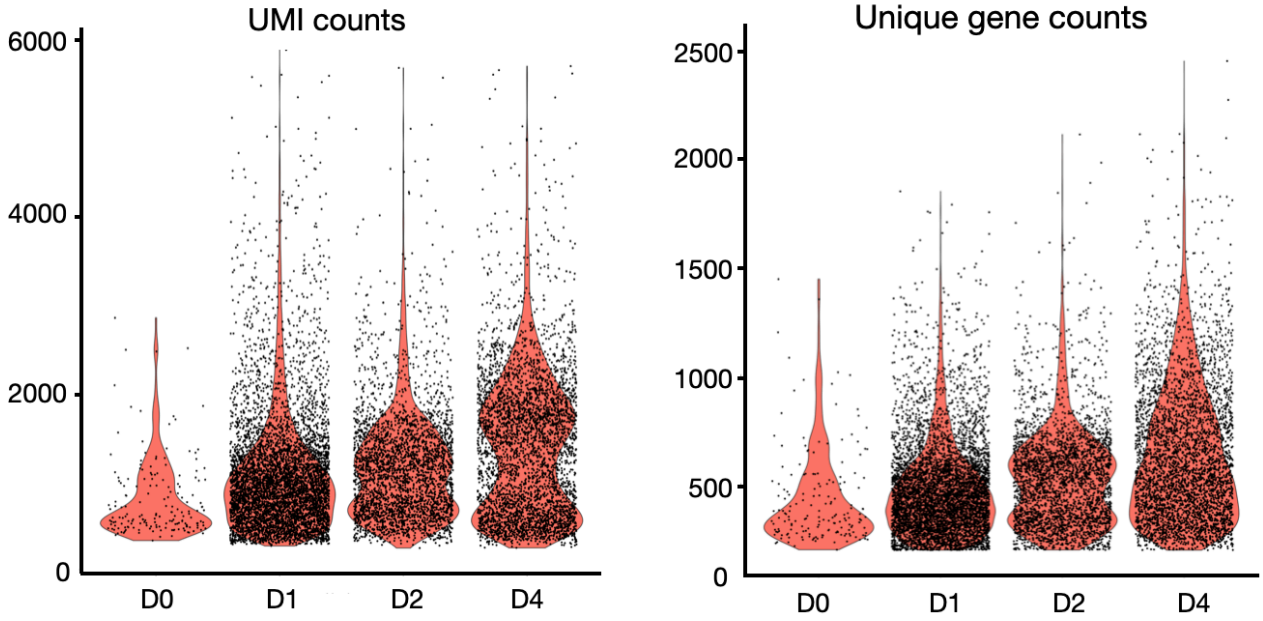
Figure S1. Experimental design and bioinformatics protocol.



(**A**) Experimental design and flow cytometry panel implemented to isolate leukocytes from steady-state and post-infarct heart tissue. (**B**) After FACS sorting, single cell suspensions were subjected to custom inDrop or commercial 10X Genomics single barcoding and processed through standard library preparation sequencing. Following gene alignment and demultiplexing, the resulting counts matrices were integrated. Neutrophils were identified based on the concerted expression of several canonical neutrophil markers and re-integrated from the original datasets.

Figure S2. scRNA-seq quality control metrics for post-MI time points.

A

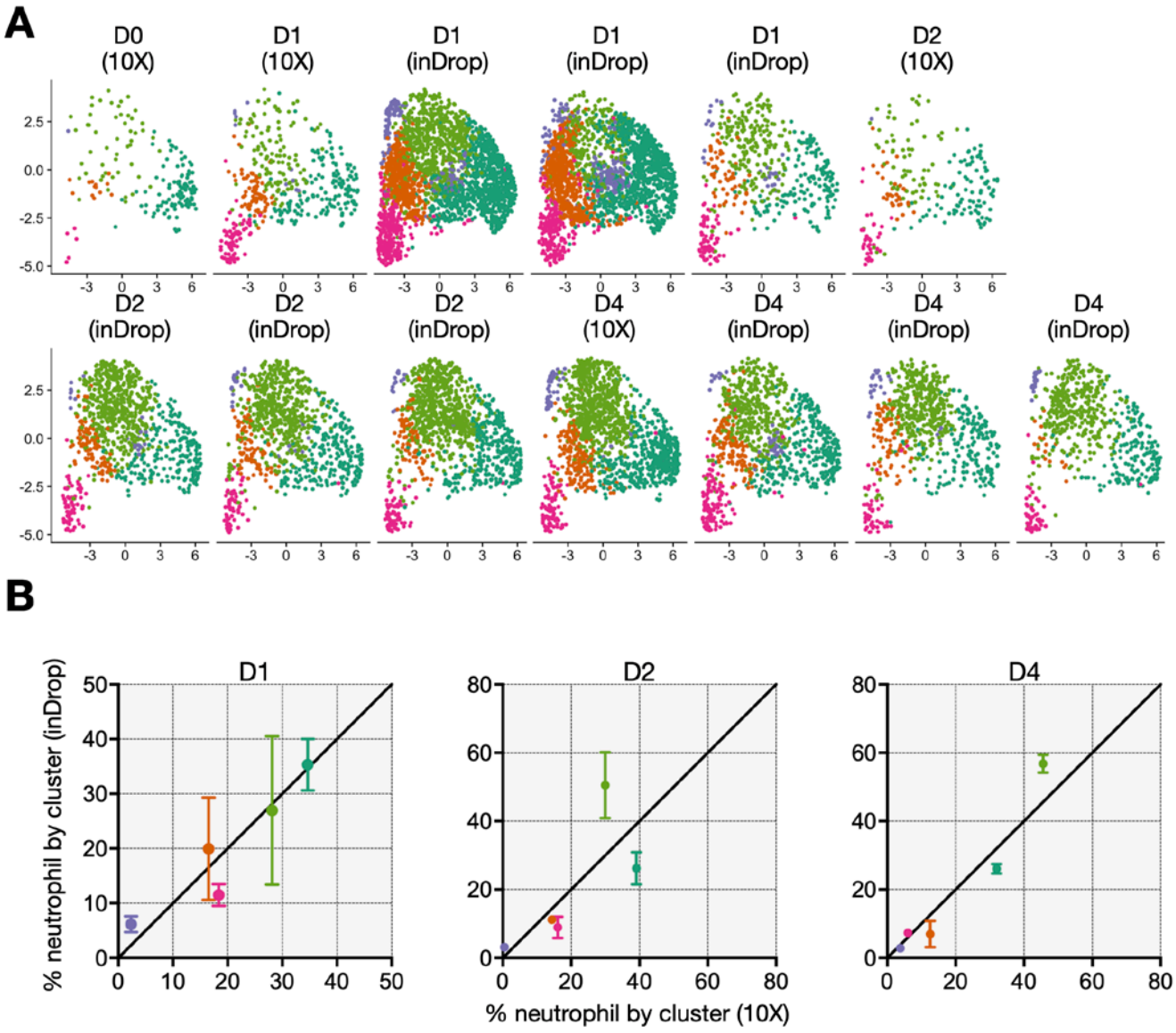


B

	D0	D1	D2	D4
Number of mice (n)	1	4	4	4
Neutrophils after QC	177	5664	3296	3791
Median UMIs per neutrophil	608	941	1137	1346
Median unique genes per neutrophil	353	441	533	558

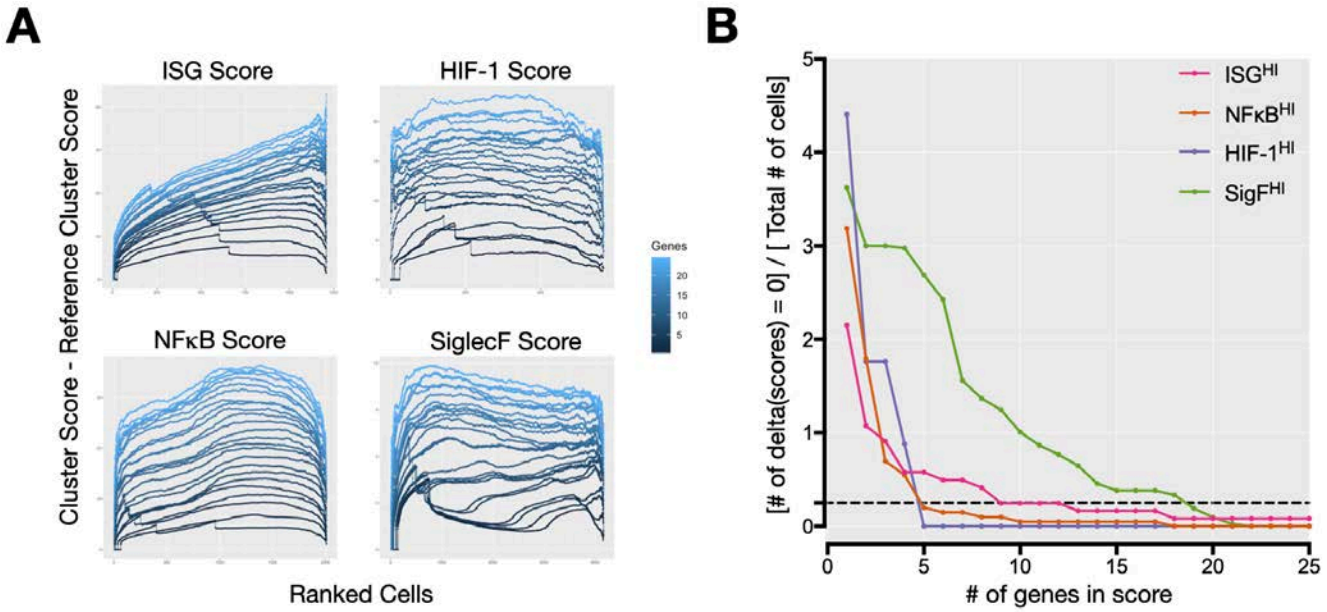
(**A**) Violin plots of post-QC UMI counts (total transcript count) and number of unique genes per neutrophil at steady state (D0) and after MI (D1, D2, D4). (**B**) Time point-specific information on cardiac scRNA-seq samples.

Figure S3. inDrop and 10X (Genomics) platform comparison.



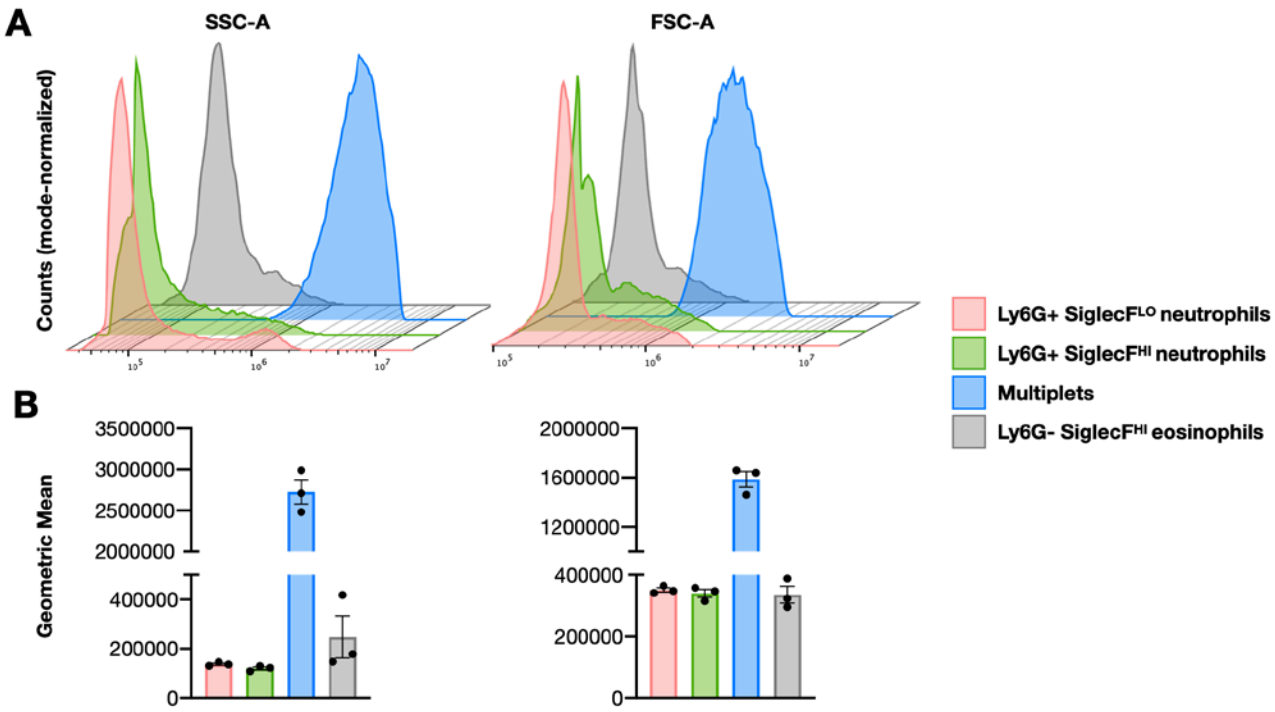
(**A**) UMAPs of the resulting integration, colored by cluster, separated by sample and day. (**B**) Platform comparison of fractional cluster membership.

Figure S4. Assessment of quantity of genes implemented for subset-specific scores.



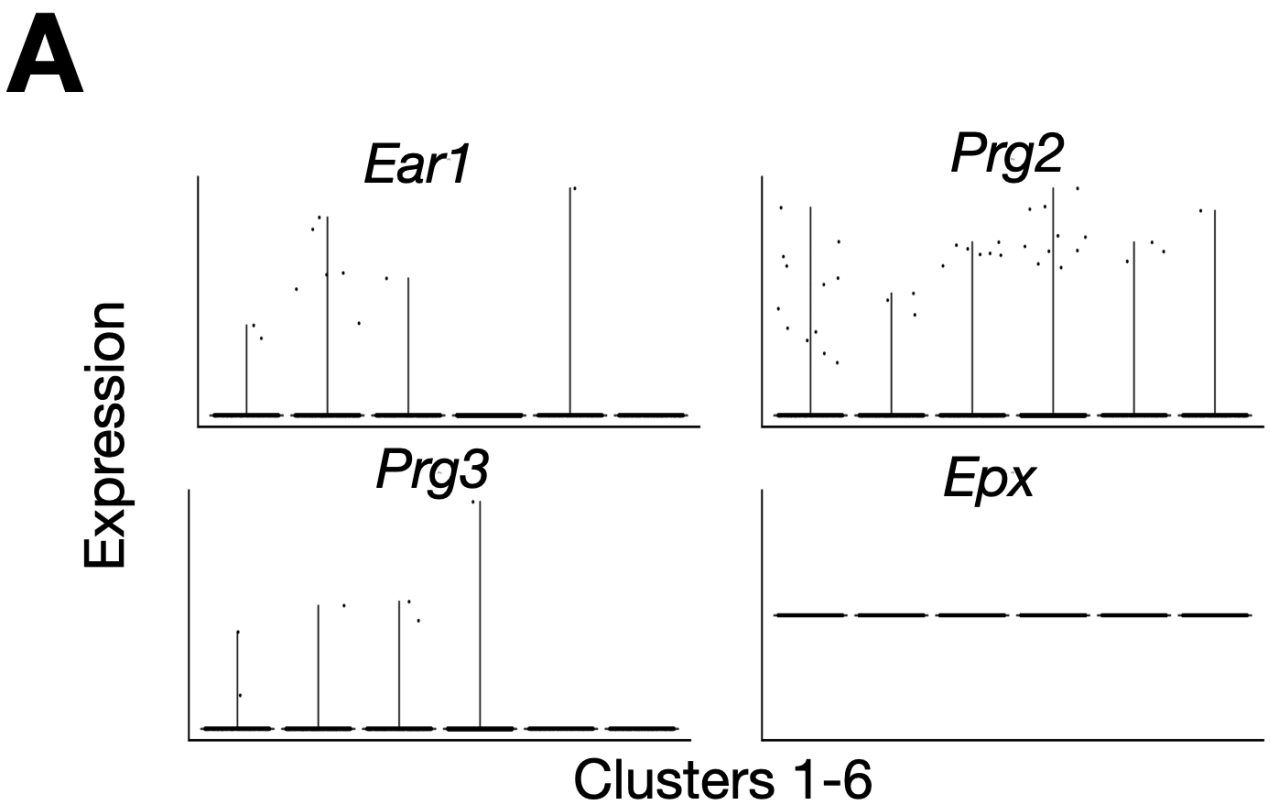
(**A**) Respective clusters scores subtracted from reference group (Retnlg^{HI}) as a function of genes (color-coded). (**B**) Percentage of dropouts, defined as the number cells within a cluster with a score equal to 0, as a function of number of genes considered in score.

Figure S5. Characteristic flow cytometric scatter profiles of SiglecF^{HI} neutrophils, SiglecF^{LO} neutrophils, doublets, and eosinophils.



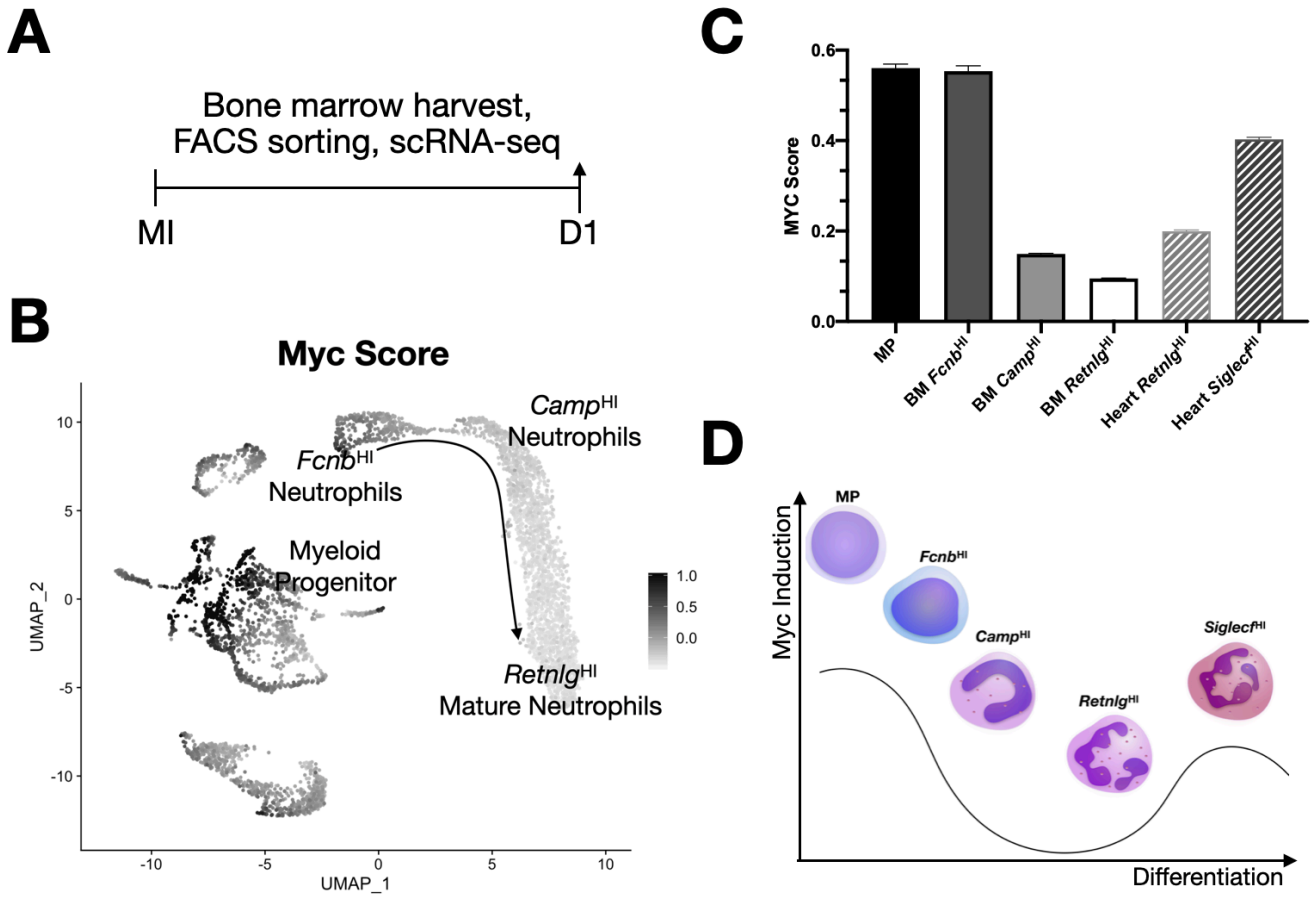
(**A**) Representative histograms of side scatter (SSC) and forward scatter (FSC) for each population. All populations were isolated from the heart of one mouse on post-MI D4. (**B**) Geometric means of SSC and FSC for each population (n=3, mean ± S.E.M).

Figure S6. Eosinophil marker gene expression in bone marrow and blood neutrophils.



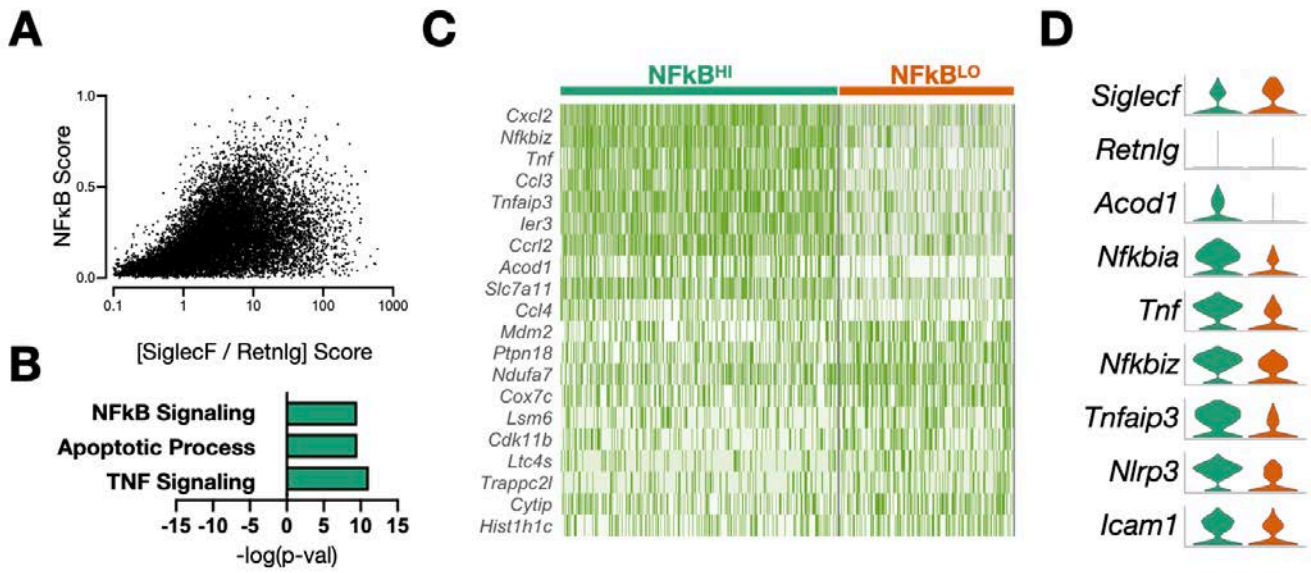
(**A**) Violin plots of eosinophil marker genes applied to neutrophils as detailed in Figure S6.

Figure S7. Myc-target genes decrease during granulopoiesis but are recovered in SigF^{HI} cardiac neutrophils.



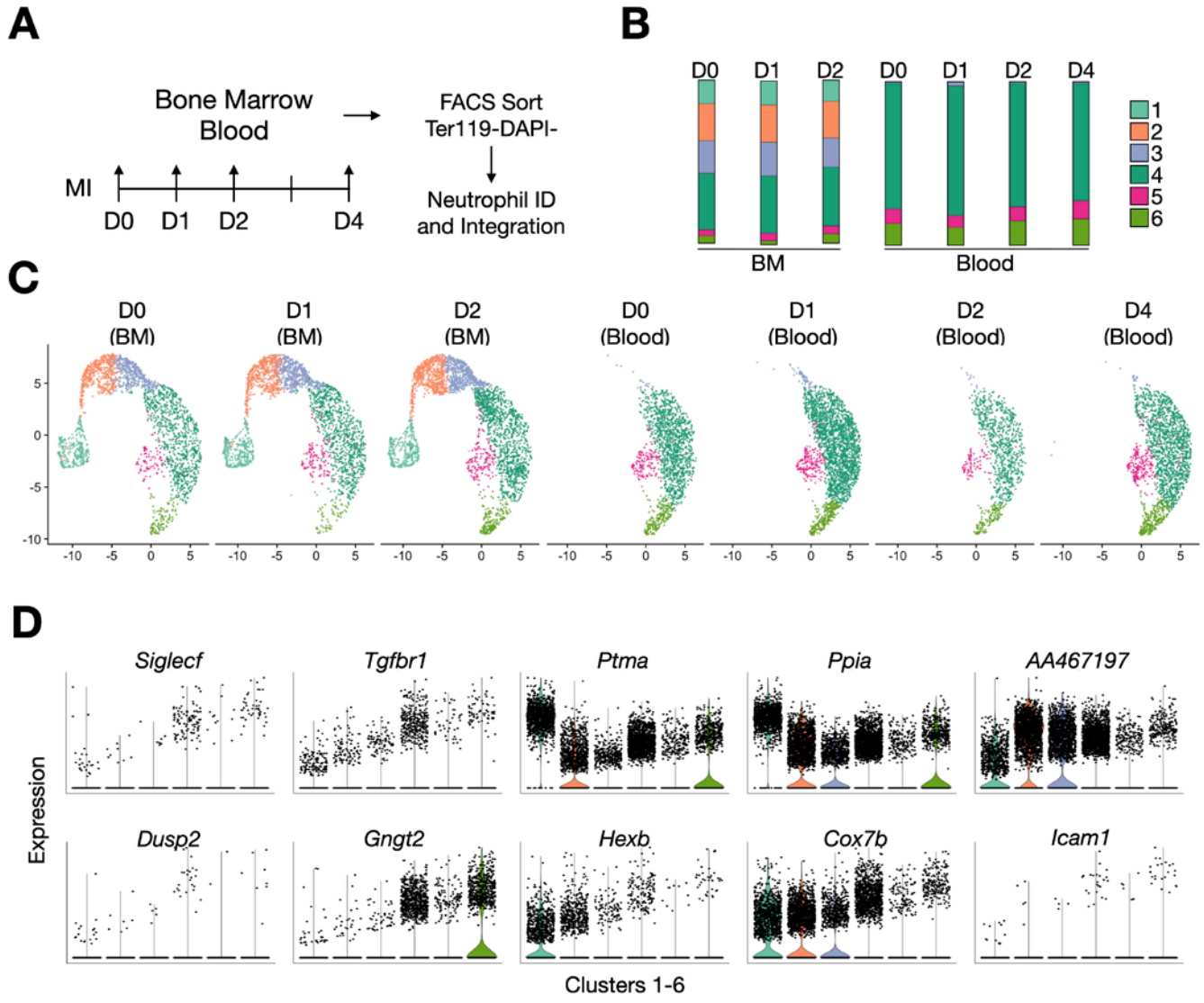
(**A**) Experimental design. (**B**) Feature plot of Myc score with neutrophil progenitors annotated and arrow indicating axis of maturation (n = 1 mouse, 6191 cells). (**C**) Bar plot of Myc score binned by stages of neutrophil development. Data shown are mean ± SEM of single cell values. (**D**) Diagram indicating Myc-recovery in cardiac SigF^{HI} neutrophils.

Figure S8. SigF^{HI} neutrophils subset into NFkB HI and NFkB Intermediate -induced state.



(A) Scatterplot of SiglecF score: Retnlg score ratio vs. NFkB score in all cardiac neutrophils. **(B)** GSEA of genes upregulated in the NFkB/TNF^{HI} subset of SiglecF^{HI} neutrophils using gProfiler. **(C)** Heatmap of subclustered SigF^{HI} neutrophils from D4 post-MI, displaying emergence of 2 clusters based on differential expression of NFkB/TNF related genes. **(D)** Violin plots of subsets displayed in (C), showing universally high expression of Siglecf but dichotomous expression of NFkB-regulated genes.

Figure S9. Integration of bone marrow and blood neutrophils transcriptomes reveals an axis of maturation that continues into blood.



(**A**) Bone marrow and blood leukocytes were harvested from mice with (bone marrow: D1, D2; blood: D1, D2, D4) and without MIs (D0) and processed through single cell pipeline (10X Genomics) as described above. (**B**) Fractional representation of clusters by tissue and day post-MI. (**C**) UMAP plots split by sample (15,839 cells in total). (**D**) Violin plots of SigF^{HI} associated genes.