

Supplementary Table 1. Blood cell counts in *Foxm1*^{fl/fl} and *Foxm1*^{fl/fl}*Mx1*-Cre Mice

Table1. Blood cell counts in 6-Week-Old <i>Foxm1</i> ^{fl/fl} and <i>Foxm1</i> ^{fl/fl} <i>Mx1</i> -Cre Mice			
	<i>Foxm1</i> ^{fl/fl}	<i>Foxm1</i> ^{fl/fl} <i>Mx1</i> -Cre	P Value
WBC(K/ μ L)	12.26 \pm 1.88	7.67 \pm 1.13	0.000172
NE(K/ μ L)	3.38 \pm 0.67	1.69 \pm 0.40	0.000144
LY(K/ μ L)	8.10 \pm 1.17	5.61 \pm 0.69	0.000501
MO(K/ μ L)	0.52 \pm 0.12	0.28 \pm 0.06	0.000813
EO(K/ μ L)	0.10 \pm 0.08	0.08 \pm 0.11	NS
BA(K/ μ L)	0.06 \pm 0.08	0.03 \pm 0.02	NS
RBC(M/ μ L)	10.22 \pm 1.05	9.93 \pm 0.54	NS
Hb(g/dL)	15.56 \pm 0.84	14.55 \pm 0.69	NS
HCT(%)	59.54 \pm 6.90	58.74 \pm 4.28	NS
MCV(fL)	58.24 \pm 2.01	59.10 \pm 1.60	NS
MCH(pg)	15.34 \pm 1.68	14.66 \pm 0.58	NS
PLT(K/ μ L)	1016 \pm 115	848 \pm 118	0.020942

Values shown are the mean \pm SD for 5 mice per genotype. WBC, white blood cell; NE, neutrophils; LY, lymphocytes; MO, monocytes; EO, eosinophils; BA, basophils; RBC, red blood cell; Hb, hemoglobin; HCT, hematocrit; MCV, mean corpuscular volume; MCH, mean corpuscular hemoglobin; PLT, platelet; NS, not significant.

Supplementary Table 2. Gene lists in the heatmap

SYMBOL	ProbeID	FoxM1-W	FoxM1-W	FoxM1-W	FoxM1-M	FoxM1-M	FoxM1-M	W	M	dif.	ttest	Ratio	Fold change
Dnajb9	10400137	8.715106	9.370588	8.384314	5.642471	6.415591	5.771725	8.823336	5.943262	-2.88007	0.001557	0.135835	-7.3618781
Ltn1	10440560	5.41328	6.589815	4.621091	2.256666	2.834494	3.20371	5.541395	2.754623	-2.78677	0.012055	0.14491	-6.9008419
Ppp1r11	10450814	6.511727	7.730901	6.374607	5.359207	4.380608	5.049904	6.872411	4.929906	-1.94251	0.020056	0.260164	-3.8437249
Cox16	10401309	6.358564	7.715133	7.022812	4.865371	5.415234	5.448324	7.03217	5.242976	-1.78919	0.014681	0.289334	-3.4562158
Olf46	10558649	6.503832	6.573215	6.558371	5.431236	4.277866	4.639702	6.545139	4.782935	-1.7622	0.006677	0.294797	-3.3921606
Eea1	10365933	7.64908	6.756991	7.476211	5.93465	4.970249	5.745036	7.294094	5.549978	-1.74412	0.01227	0.298517	-3.3498949
BC024479	10584309	5.432672	5.859922	6.012388	3.644563	4.874021	3.617977	5.768328	4.045521	-1.72281	0.018532	0.302959	-3.3007801
Ncoa4	10399198	10.42763	9.992425	9.804756	8.029585	8.704955	8.324798	10.07494	8.353113	-1.72182	0.00305	0.303165	-3.2985332
Cenpo	10394283	6.973467	6.978941	6.051178	5.41736	4.530569	5.017648	6.667862	4.988526	-1.67934	0.013833	0.312226	-3.2028053
Vmn1r117	10560744	3.425462	4.441753	3.906318	2.32284	2.039286	2.40858	3.924511	2.256902	-1.66761	0.006044	0.314775	-3.1768762
Cnnm4	10345482	6.394856	6.213494	7.454414	5.399358	5.181192	4.610223	6.687588	5.063591	-1.624	0.023045	0.324435	-3.0822781
Vps41	10403765	6.779654	7.230655	6.842621	5.417937	5.155356	5.4125	6.950977	5.328598	-1.62238	0.00607	0.324799	-3.0788225
Zfp558	10591161	4.697102	5.418913	4.699605	3.903233	3.126726	2.99685	4.938854	3.34227	-1.59627	0.012639	0.330731	-3.0236055
Npc2	10401519	8.527747	8.389879	8.69568	6.931755	7.1017	6.795333	8.537769	6.942929	-1.59484	0.000219	0.331059	-3.0206082
Nr4a2	10482772	8.89177	8.693312	8.391933	7.887449	6.996718	6.441231	8.659005	7.108466	-1.55054	0.025354	0.341382	-2.9292658
Trappc6b	10400538	6.789722	7.412945	6.378741	5.201316	5.697344	5.031772	6.860469	5.310144	-1.55033	0.01269	0.341433	-2.9288319
Nbeal1	10346695	5.593626	5.077597	4.912589	3.630979	3.906652	3.600329	5.194604	3.712653	-1.48195	0.002847	0.358004	-2.7932622
Ttc9c	10465812	6.533618	7.568627	7.465268	5.86937	5.394108	5.866797	7.189171	5.710092	-1.47908	0.015459	0.358718	-2.7877082
Zfp361	10401238	7.548295	7.790319	7.253094	6.523674	6.18713	5.501862	7.530569	6.070888	-1.45968	0.012512	0.363573	-2.7504755
Dennd1b	10350349	6.171736	6.308435	6.454178	4.707516	4.459739	5.432108	6.311449	4.866454	-1.44499	0.008838	0.367293	-2.7226188
Lipa	10467139	6.091858	5.302708	6.030981	4.664279	4.746397	4.004033	5.808516	4.47157	-1.33695	0.018027	0.395858	-2.52616
Gbp9	10531980	5.50897	4.463409	4.711009	5.626974	3.587748	3.578941	4.894463	3.564554	-1.32991	0.013606	0.397793	-2.5138673
Lrrc57	10486552	6.820895	7.425365	6.555894	5.721325	5.36784	5.8532	6.934051	5.647455	-1.2866	0.01209	0.409917	-2.4395183
Usp49	10445702	5.048907	4.802963	4.781574	3.900145	3.412247	3.483258	4.877815	3.59855	-1.27926	0.00185	0.412005	-2.4271525
Atf3	10361091	6.357034	7.176865	6.075612	5.417922	5.382746	5.182061	6.536504	5.327576	-1.20893	0.023323	0.43259	-2.3116572
Bgn	10600169	6.486084	6.135998	5.958197	4.691815	4.801387	5.58183	6.193426	5.025011	-1.16842	0.021801	0.44491	-2.2476473
Zfp259	10585022	6.668045	6.591244	7.218257	4.647367	5.828395	5.618467	6.825849	5.698077	-1.12777	0.005619	0.457622	-2.1852102
Tmem65	10428827	5.224726	5.571834	4.885015	3.802121	4.497548	4.030269	5.227192	4.109979	-1.11721	0.017239	0.460984	-2.1692744
Dpagt1	10584700	5.107453	4.436845	4.750303	3.663751	3.449163	3.88835	4.764867	3.667088	-1.09778	0.009028	0.467235	-2.1402496
Bud31	10527448	6.051806	5.527946	5.451498	4.397918	4.566376	4.930498	5.677083	4.631597	-1.04549	0.013076	0.484482	-2.0640615
Gm3771	10572722	4.909686	4.50835	4.757906	3.768292	3.624687	3.674077	4.725314	3.689019	-1.0363	0.001133	0.487578	-2.0509546
Thoc5	10373964	6.839036	7.122177	6.707706	5.86837	6.001833	6.596614	6.88964	5.856606	-1.03303	0.00235	0.488681	-2.0463231
Gramd1b	10592471	7.464454	7.642475	7.57601	6.968199	6.072886	6.552021	7.56098	6.531035	-1.02994	0.017485	0.489729	-2.0419456
Slc35a1	10511975	6.22657	5.365481	5.862781	4.679428	4.963096	4.789412	5.818277	4.810645	-1.00763	0.018568	0.497362	-2.0106082
Phyh1	10470959	4.815383	5.324443	5.180148	6.574805	5.962875	5.839089	5.106658	6.12559	1.018932	0.020318	0.206418	2.026418
Rpl29	10472197	7.841576	7.880095	8.335871	9.03607	9.332739	8.791419	8.01918	9.053409	1.034229	0.009737	2.048019	2.0480186
Sparc	10386058	4.981878	5.58544	4.908403	6.076487	6.107917	6.320586	5.128574	6.16833	1.039756	0.012504	2.05588	2.0558801
Ate1	10568464	5.148541	4.648713	4.60847	6.120965	5.553047	5.865714	4.801908	5.846576	1.044668	0.011967	2.062891	2.062891
Rpl38	10509560	8.443253	8.707897	8.975227	9.879999	9.32406	10.07978	8.708792	9.76128	1.052488	0.018289	2.074104	2.0741041
Arhgef12	10582862	6.799099	6.286405	6.378508	7.243614	7.545316	7.941709	6.488004	7.576895	1.088891	0.013198	2.127105	2.1271049
Hist1h2br	10408070	6.982658	6.857615	6.616729	7.746877	7.912713	8.109242	6.819001	7.922944	1.103943	0.001816	2.149414	2.1494136
Mrpl24	10493094	7.148082	7.384503	7.887601	8.404777	8.720999	8.665231	7.473396	8.597002	1.123607	0.009278	2.17891	2.1789105
Lime1	10479607	5.827669	6.024718	5.942529	7.422557	6.718974	7.043816	5.931639	7.061782	1.130144	0.00588	2.188805	2.1888053
Rpl21	10527530	5.245767	5.4556	4.849591	6.691672	6.197808	6.090529	5.183653	6.32667	1.143017	0.011205	2.208424	2.2084237
Gbe1	10436500	4.677317	4.704112	5.512343	6.316332	6.083056	5.923521	4.964591	6.107636	1.143045	0.018279	2.208467	2.2084673
Mtch2	10530851	6.140075	5.432257	6.383102	6.952209	7.124348	7.349649	5.985145	7.142069	1.156924	0.019744	2.229815	2.2298146
Apoa1bp	10499309	6.42213	6.968984	7.152851	8.02883	7.839621	7.839287	6.847988	8.021679	1.173691	0.008406	2.25588	2.2558803
Rnf181	10545394	7.013531	6.805095	6.449968	7.858126	7.759509	8.205063	6.756198	7.940899	1.184702	0.005107	2.273164	2.2731637
Cdc45	10438378	5.012115	5.5612	5.171038	6.26854	6.10434	7.089366	5.248118	6.487416	1.239298	0.023046	2.360836	2.3608362
Flot2	10379013	4.675525	4.072662	4.276976	5.783621	5.817631	5.359944	4.341721	5.653732	1.312011	0.004686	2.482874	2.4828738
Glr3	10558454	6.750186	7.765369	7.349401	8.566625	8.328729	8.933121	7.288318	8.609492	1.321173	0.018291	2.498692	2.4986924
Serpinp9g	10404472	3.927082	4.70964	4.471062	5.604158	5.393369	6.157015	4.369261	5.71818	1.348919	0.014219	2.547212	2.5472119
Acadm	10502951	5.691464	5.806684	5.463854	7.093181	7.393812	6.809677	5.654001	7.09889	1.444889	0.00182	2.722419	2.722419
Hmgb2	10518350	5.574018	5.776207	6.403221	7.222108	7.719758	7.147754	5.917815	7.363207	1.445391	0.009305	2.723366	2.7233664
Crel2	10426098	6.715661	5.987077	5.94632	7.716049	7.265607	8.025281	6.216353	7.668979	1.452627	0.012082	2.737059	2.737059
Utp14a	10599498	3.855496	3.704084	3.962528	5.227831	5.63719	5.031639	3.840703	5.298887	1.458184	0.001661	2.747622	2.7476224
Ndufv3	10443808	7.178546	6.604079	7.175545	7.904972	9.083359	8.550826	6.986057	8.513052	1.526996	0.0174	2.881851	2.8818507
Slc25a5	10355996	4.522247	4.788194	5.910065	6.431485	6.813717	6.865182	5.073502	6.703461	1.629959	0.021797	3.095042	3.0950423
Cox7c	10388461	6.917582	6.621416	6.883658	8.333818	7.854392	9.377561	6.807552	8.521924	1.714372	0.020249	3.281538	3.2815378
Manea	10511881	5.02548	4.525813	5.758758	6.944834	6.476771	7.370303	5.10335	6.930636	1.827286	0.014373	3.548688	3.5486884
Atp6v1b2	10572146	5.348178	5.52477	5.56434	6.745756	7.692375	7.212856	5.388332	7.216996	1.828664	0.003169	3.55208	3.5520797
Ppt2	10450226	5.087462	5.055186	4.144185	7.492807	7.072133	5.960563	4.762278	6.841834	2.079556	0.019629	4.226772	4.226772
Mkl2	10433656	6.382775	5.950235	6.146511	7.462664	8.193414	9.160294	6.15984	8.272124	2.112284	0.014101	4.323751	4.3237512
Terf1	10344939	5.94157	4.727174	5.636796	7.670935	7.383434	8.096293	5.43518	7.716887	2.281708	0.005544	4.862531	4.8625313
Mrpl50	10512901	5.070632	5.168646	4.867395	7.279803	8.609594	6.447193	5.035557	7.44553	2.409973	0.019274	5.314642	5.3146422
Nkg7	10552406	5.295031	5.9008	5.634636	8.815553	7.323386	7.950948	5.610156	8.029962	2.419806	0.006585	5.350992	5.3509929
Got2	10526838	6.156964	5.395918	5.377569	8.317904	9.944944	6.835899	5.643484	8.066249	2.422765	0.020003	5.361978	5.3619783
Psmb													

Supplementary Table 3. Antibody list

Marker	Cat. No.	Clone	Fluor	Vendor
streptavidin	15-4317-82		PE-Cy5	eBioscience
streptavidin	47-4317-82		APC-Cy7	eBioscience
streptavidin	48-4317-82		eFluor450	eBioscience
Sca-1	12-5981-83	D7	PE	eBioscience
Sca-1	11-5981-85	D7	FITC	eBioscience
c-Kit	47-1172-82	ACK2	APC-Cy7	eBioscience
c-Kit	17-1172-83	ACK2	APC	eBioscience
c-Kit	25-1171-81	2B8	PE-Cy7	eBioscience
CD48	25-0481-80	HM48-1	PE-Cy7	eBioscience
CD150	115910	TC15-12F12.2	APC	Biologend
Annexin V	88-8007-74		APC	eBioscience
CD45.1	12-0453-83	A20	PE	eBioscience
CD45.2	11-0454-85	104	FITC	eBioscience
CD16/32	25-0161-82	93	PE-Cy7	eBioscience
CD34	48-0341-82	RAM34	eFluor450	eBioscience
CD127	47-1271-82	A7R34	APC-Cy7	eBioscience
Flt3	15-1351-82	A2F10	PE-Cy5	eBioscience
Gr-1	13-5931-86	RB6-8C5	Biotin	eBioscience
Ter119	13-5921-85	TER-119	Biotin	eBioscience
B220	13-0452-86	RA3-6B2	Biotin	eBioscience
CD19	13-0193-85	eBio1D3 (1D3)	Biotin	eBioscience
IgM	13-4341-81		Biotin	eBioscience
IL-7R	13-1271-85	A7R34	Biotin	eBioscience
CD3	13-0033-86	eBio500A2 (500A2)	Biotin	eBioscience
CD4	13-0043-85	RM4-4	Biotin	eBioscience
CD8	13-0081-82	53-6.7	Biotin	eBioscience
Gr-1	12-5931-85	RB6-8C5	PE	eBioscience
MAC	17-0112-83	M1/70	APC	eBioscience
Ter119	17-5921-83	TER-119	APC	eBioscience
CD71	12-0711-83	R17217 (RI7 217.1.4)	PE	eBioscience
B220	12-0452-85	RA3-6B2	PE	eBioscience
IgM	17-5790-82	II/41	APC	eBioscience
CD4	12-0041-85	GK1.5	PE	eBioscience
CD8	17-0081-83	53-6.7	APC	eBioscience
CD41	25-0411-82	eBioMWRReg30 (MWRReg30)	PE-Cy7	eBioscience
F4/80	12-4801-82	BM8	PE	eBioscience
CD43	13-0431-82	eBioR2/60	Biotin	eBioscience
CD25	12-0251-83	PC61.5	PE	eBioscience
CD44	17-0441-83	IM7	APC	eBioscience
BrdU	11-5071-42	BU20A	FITC	eBioscience
BrdU	17-5071-42	BU20A	APC	eBioscience
CD34	17-0349-42	4H11	APC	eBioscience

Supplementary Table 4. Primer list

Primers used for mouse genotype		
FoxM1 GT1	TGGCTTCCCAGCAGTACAAATC	Detect the FoxM1 flox allele (280 bp) and FoxM1 wildtype allele (226 bp)
FoxM1 GT2	TGCTTACAAAAGACACACTTGGACG	
FoxM1 GT1	TGGCTTCCCAGCAGTACAAATC	Detect deleted FoxM1 allele (400 bp)
FoxM1 GT3	TCTCGCTCAATTCCAAGACCAG	
Cre1	CTGCATTACCGGTCGATGCAAC	
Cre2	GCATTGCTGTCACTTGGTCGTG	Detect Cre allele (301bp)
Primers used for RT-PCR (mouse)		
mFoxM1-f	CACTTGGATTGAGGACCACTT	Detect mouse FoxM1 mRNA levels
mFoxM1-r	GTCGTTTCTGCTGTGATT	
mNurr1-f	GTTTACCCTCGAAGCCGAAGAG	Detect mouse Nurr1 mRNA levels
mNurr1-r	ATAGTCAGGGTTTGCCTGGAAC	
mP21-f	TGACCCACAGCAGAAGAG	Detect mouse P21 mRNA levels
mP21-r	ACCAGCCTGACAGATTTCTA	
mP27-f	TGGACCAAATGCCTGACTC	Detect mouse P27 mRNA levels
mP27-r	GGGAACCGTCTGAAACATTTTC	
mP57-f	CAGGACGAGAATCAAGAGCAG	Detect mouse P57 mRNA levels
mP57-r	CGACGCCTTGTCTCCTG	
mP16-f	GGTCTTGGTCACTGTGAGGA	Detect mouse P16 mRNA levels
mP16-r	GCAGAAGAGCTGCTACGTGAA	
mCcnb1-f	TGTGAACCAGAGGTGGAACCTGC	Detect mouse Ccnb1 mRNA levels
mCcnb1-r	ATCGGGCTTGGAGAGGGATTATC	
mBeta-actin-f	TGTGATGGTGGGAATGGGTCAG	Detect mouse Beta-actin mRNA levels
mBeta-actin-r	TTTGATGTCACGCACGATTTCC	
Primers used for RT-PCR (human)		
hFoxM1-1	TTAAGCACATTGCCAAGCCA	Detect human FoxM1 mRNA levels
hFoxM1-2	GGGGTGAATGGTCCAGAAGGA	
hNurr1-1	GCACAGACAGTTTAAAAGGCCG	Detect human Nurr1 mRNA levels
hNurr1-2	CTCATTTGATAGTCAGGGTTCG	
hBeta-actin-f	GCACAGAGCCTCGCCTT	Detect human Beta-actin mRNA levels
hBeta-actin-r	GTTGTCGACGACGAGCG	
Primers used for Chip assay		
Nurr1 site1-1	TGAGGAGAGAATTCATGTGT	Detect FoxM1 binding site1 in Nurr1 promoter region.
Nurr1 site1-2	ATTCTTAGAAGGAAGGAGGT	
Nurr1 site2-1	GGCGTCACTGGCAGGGCGCC	Detect FoxM1 binding site2 in Nurr1 promoter region.
Nurr1 site2-2	CGGCCAAGCGGTCAGCGGC	
Control-1	AAGAAGAGCCGTGTGCTCTCTT	Detect a DNA fragment without FoxM1 binding site2.
Control-2	AACAGGACTTCTAACAGCAAGTA	
Primers used for subclone		
Nurr1 site1-f	TATGGTACCTGAGGAGAGAATTCATGTGT	Subclone Nurr1 site1 into pGL3-basic vector
Nurr1 site1-r	TATCTCGAGATTCTTAGAAGGAAGGAGGT	
Nurr1 site2-f	TATGGTACCGGCGTCACTGGCAGGGCGCC	Subclone Nurr1 site2 into pGL3-basic vector
Nurr1 site2-r	TATCTCGAGCGGCCAAGCGGTCAGCGGC	
Nurr1 site1	TATGGTACCTGAGGAGAGAATTCATGTGTACAAA	Introduce mutation in site1 of

mut1-F	TGTGTACCACCCGCCCTTCATTTTCATTAGCCATA	site1-pGL3
Nurr1 site1 mut1-R	TATCTCGAGATTCTTAGAAGGAAGGAGGT	
Nurr1-cds-5B	GGAAGATCTATGGATTACAAGGATGACGACGAT AAGCCTTGTGTTTCAGGCGCAGTA	Subclone Nurr1 cds into MSCV-puro or MSCV-Pig vector
Nurr1-cds-3X	CCGCTCGAGTTAGAAAGGTAAGGTGTCCAGGAA	
Nurr1-cds-5B	GGAAGATCTATGGATTACAAGGATGACGACGAT AAGCCTTGTGTTTCAGGCGCAGTA	Subclone Nurr1 cds into The BamHI and MluI sites of pLVX-Tight-Puro (pLVX-Tight-Puro-Nurr1)
Nurr1-cds-3M	CCGACGCGTTTAGAAAGGTAAGGTGTCCAGGAA	
hFoxM1 shRNA-1-F	CCGGGCCCAACAGGAGTCTAATCAACTCGAGTTG ATTAGACTCCTGTTGGGCTTTTTG	Human FOXM1 shRNA Oligo, oligoes are annealed and ligated into pLKO.1-GFP (pLKO.1-GFP-shFoxM1-1)
hFoxM1 shRNA-1-R	AATTCAAAAAGCCCAACAGGAGTCTAATCAACTC GAGTTGATTAGACTCCTGTTGGGC	
hFoxM1 shRNA-2-F	CCGGGCCAATCGTTCTCTGACAGA AACTCGAGTTCT GTCAGAGAACGATTGGCTTTTTG	Human FOXM1 shRNA Oligo, oligoes are annealed and ligated into pLKO.1-GFP (pLKO.1-GFP-shFoxM1-2)
hFoxM1 shRNA-2-R	AATTCAAAAAGCCAATCGTTCTCTGACAGA AACTCG AGTTCTGTCAGAGAACGATTGGC	