

TF	Cell Type	Peaks	Bound Windows	Frac. Bound	Accession ID
CEBPA	Adipocyte	15458	117291	0.26%	GSE27450
CTCF	Adipocyte	53354	431411	0.97%	GSE20752
PPARG	Adipocyte	11465	93351	0.21%	GSE20752
BHLHE40	Erythroid	16967	142473	0.32%	ENCSR000ESH
CTCF	Erythroid	47297	397943	0.90%	ENCSR000ETQ
E2F4	Erythroid	4925	39272	0.09%	ENCSR000ETY
ELF1	Erythroid	19518	162146	0.37%	ENCSR033OWC
ETS1	Erythroid	40913	337420	0.76%	ENCSR000ETB
GATA1	Erythroid	46171	384871	0.87%	ENCSR000EUG
JUND	Erythroid	7277	60316	0.14%	ENCSR000ETZ
MAFK	Erythroid	9846	81190	0.18%	ENCSR000ETK
MAX	Erythroid	28616	228588	0.52%	ENCSR000ETX
MAZ	Erythroid	20486	162023	0.37%	ENCSR000ESL
MEF2A	Erythroid	4827	40776	0.09%	ENCSR867SDZ
MXI1	Erythroid	39255	298761	0.67%	ENCSR000ETN
MYC	Erythroid	29362	230225	0.52%	ENCSR000EUA
NRF1	Erythroid	11191	93732	0.21%	ENCSR135SWH
TAL1	Erythroid	18775	156858	0.35%	ENCSR000DIA
UBTF	Erythroid	6549	51131	0.12%	ENCSR000ESJ
USF1	Erythroid	19958	167188	0.38%	ENCSR705HGT
USF2	Erythroid	4186	35607	0.08%	ENCSR000ETF
CTCF	Erythroid progenitor	30998	256447	0.58%	GSE36029
GATA1	Erythroid progenitor	11162	93403	0.21%	GSE36029
TAL1	Erythroid progenitor	4356	34771	0.08%	GSE36029
CTCF	ESC	44581	371955	0.84%	ENCSR362VNF
MAFK	ESC	17123	142736	0.32%	ENCSR604XDL
NANOG	ESC	16037	130587	0.29%	ENCSR779CZG
POU5F1	ESC	4198	34197	0.08%	ENCSR392DGA
FLI1	Hematopoietic progenitor	9838	83763	0.19%	GSE69099
LMO2	Hematopoietic progenitor	4618	39374	0.09%	GSE69099
RUNX1	Hematopoietic progenitor	2888	24860	0.06%	GSE69099
SPI1	Hematopoietic progenitor	17273	145004	0.33%	GSE69099
BHLHE40	Lymphoblast	46376	382831	0.86%	ENCSR000ERC
CTCF	Lymphoblast	63983	535673	1.21%	ENCSR000ERM
E2F4	Lymphoblast	6263	50365	0.11%	ENCSR000ERU
ELF1	Lymphoblast	28901	237091	0.54%	ENCSR293WTN
ETS1	Lymphoblast	30839	252203	0.57%	ENCSR000ERA
IRF4	Lymphoblast	43458	357105	0.81%	ENCSR743ZJL
JUND	Lymphoblast	15998	131797	0.30%	ENCSR000ERR
MAX	Lymphoblast	31198	250415	0.57%	ENCSR000ERL
MAZ	Lymphoblast	21334	169037	0.38%	ENCSR000EQT
MEF2A	Lymphoblast	30789	250229	0.57%	ENCSR806JZK
MXI1	Lymphoblast	32224	244761	0.55%	ENCSR000ERE
MYC	Lymphoblast	30247	241587	0.55%	ENCSR000ERN
NRF1	Lymphoblast	17314	142918	0.32%	ENCSR980YXJ
TBP	Lymphoblast	23408	183549	0.41%	ENCSR000ERP
TCF12	Lymphoblast	36815	294533	0.67%	ENCSR906QEK
USF1	Lymphoblast	8158	69811	0.16%	ENCSR973SOG
USF2	Lymphoblast	5322	45624	0.10%	ENCSR000ERJ
SPI1	Macrophage	65942	525645	1.19%	GSE48759
FLI1	Megakaryocyte	3224	27394	0.06%	GSE36029
GATA1	Megakaryocyte	4154	35204	0.08%	GSE36029
RUNX1	Megakaryocyte	10700	90597	0.20%	GSE45372

Table S6: Summary statistics for all additional mouse datasets. The mouse genome filtered window set consisted of 41883806 windows in total.