

TF	Basic Mouse Models			Domain-adaptive Mouse Models		
	Unbound	FPs (Both)	FPs (Mouse Only)	Unbound	FPs (Both)	FPs (Mouse Only)
Adipocytes						
CEBPA	21.3%	20.5%	76.5%	21.3%	19.5%	59.9%
CTCF	21.3%	11.4%	86.7%	21.3%	9.8%	31.3%
PPARG	21.4%	15.9%	68.1%	21.4%	14.8%	50.7%
Erythroid Progenitors						
CTCF	21.3%	9.7%	42.0%	21.3%	9.8%	24.6%
GATA1	21.3%	15.1%	62.1%	21.3%	14.5%	64.4%
TAL1	21.3%	17.1%	86.3%	21.3%	14.0%	76.8%
Erythroid Cells						
BHLHE40	21.3%	17.2%	63.5%	21.3%	16.0%	49.6%
CTCF	21.3%	13.6%	61.4%	21.3%	11.6%	34.0%
E2F4	21.3%	8.8%	71.1%	21.3%	8.2%	44.1%
ELF1	21.3%	13.7%	58.9%	21.3%	12.8%	40.5%
ETS1	21.3%	9.7%	35.0%	21.3%	8.9%	26.5%
GATA1	21.3%	14.1%	41.8%	21.3%	13.7%	28.7%
JUND	21.3%	20.6%	65.0%	21.3%	17.6%	54.6%
MAFK	21.3%	15.7%	56.4%	21.3%	14.2%	35.2%
MAX	21.3%	14.0%	72.2%	21.3%	13.0%	56.9%
MAZ	21.3%	12.3%	87.6%	21.3%	11.2%	60.9%
MEF2A	21.3%	12.5%	41.2%	21.3%	13.0%	36.3%
MXI1	21.3%	13.2%	81.7%	21.3%	11.9%	55.9%
MYC	21.3%	15.3%	68.5%	21.3%	14.0%	43.6%
NRF1	21.3%	8.9%	65.4%	21.3%	8.8%	47.2%
TAL1	21.3%	16.1%	38.8%	21.3%	15.4%	48.7%
UBTF	21.3%	10.6%	97.6%	21.3%	9.4%	84.5%
USF1	21.3%	14.8%	66.4%	21.3%	14.2%	55.3%
USF2	21.3%	11.9%	73.8%	21.3%	11.5%	62.8%
ESCs						
CTCF	21.4%	14.9%	82.5%	21.4%	12.2%	31.5%
MAFK	21.3%	13.5%	80.7%	21.3%	13.4%	76.8%
NANOG	21.3%	10.3%	38.8%	21.3%	9.4%	26.7%
POU5F1	21.3%	11.0%	40.9%	21.3%	9.8%	22.7%
Hematopoietic Progenitors						
FLI1	21.3%	6.9%	49.4%	21.3%	6.6%	34.5%
LMO2	21.3%	6.0%	20.0%	21.3%	6.4%	29.6%
RUNX1	21.3%	8.4%	25.5%	21.3%	7.9%	30.0%
SPI1	21.5%	13.6%	9.0%	21.5%	13.0%	17.4%

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TF	Basic Mouse Models			Domain-adaptive Mouse Models		
	Unbound	FPs (Both)	FPs (Mouse Only)	Unbound	FPs (Both)	FPs (Mouse Only)
Lymphoblasts						
BHLHE40	21.3%	15.3%	67.5%	21.3%	14.0%	29.3%
CTCF	21.3%	11.4%	70.8%	21.3%	10.8%	33.8%
E2F4	21.3%	6.8%	51.2%	21.3%	6.6%	25.8%
ELF1	21.3%	11.8%	41.5%	21.3%	10.4%	18.2%
ETS1	21.3%	10.4%	32.8%	21.3%	9.7%	20.7%
IRF4	21.3%	13.3%	52.9%	21.3%	12.2%	21.0%
JUND	21.3%	12.6%	28.5%	21.3%	12.1%	25.8%
MAX	21.3%	8.6%	61.3%	21.3%	8.2%	30.1%
MAZ	21.3%	8.5%	50.4%	21.3%	8.2%	26.6%
MEF2A	21.3%	17.3%	64.5%	21.3%	13.8%	14.7%
MXI1	21.3%	11.6%	77.8%	21.3%	10.6%	43.6%
MYC	21.3%	6.3%	47.6%	21.3%	5.8%	31.7%
NRF1	21.3%	5.6%	26.6%	21.3%	5.6%	17.8%
TBP	21.3%	14.3%	89.2%	21.3%	12.4%	56.4%
TCF12	21.3%	11.6%	51.5%	21.3%	10.4%	17.5%
USF1	21.3%	11.0%	64.6%	21.3%	10.5%	63.1%
USF2	21.3%	11.4%	71.1%	21.3%	11.0%	71.2%
Macrophages						
SPI1	21.4%	15.5%	27.2%	21.4%	14.2%	13.8%
Megakaryocytes						
FLI1	21.3%	8.4%	23.0%	21.3%	7.6%	18.1%
GATA1	21.3%	7.6%	11.3%	21.3%	8.2%	19.4%
RUNX1	21.3%	7.8%	15.7%	21.3%	8.2%	15.4%

Table S4: The percent of sites overlapping an *Alu* element without (left column set) or with domain adaptation (right column set), for each of the additional datasets included in Figure 12. FPs: false positives; either the set of unbound sites mispredicted as bound by both the mouse model and the human model, or false positives mispredicted by the mouse model only. See Methods for site categorization details.