

TABLE S1

Rank	Motif	P-value	% of Targets
1		1.0E-1594	41.82%
2		1.0E-422	16.15%
3		1.0E-181	35.61%
4		1.0E-124	13.05%
5		1.0E-123	14.49%
6		1.0E-102	2.68%
7		1.0E-64	3.00%
8		1.0E-49	18.85%
9		1.0E-46	2.71%
10		1.0E-37	3.29%

Best Match/Details
MA0141.2_Esrrb/Jaspar(0.971)
Mef2c(MADS)/GM12878-Mef2c-ChIP-Seq(GSE32465)/Homer(0.990)
NF1-halfsite(CTF)/LNCaP-NF1-ChIP-Seq(Unpublished)/Homer(0.941)
Six1(Homeobox)/Myoblast-Six1-ChIP-Chip(GSE20150)/Homer(0.954)
MA0089.1_NFE2L1::MafG/Jaspar(0.692)
GRE(NR/IR3)/A549-GR-ChIP-Seq(GSE32465)/Homer(0.973)
BORIS(Zf)/K562-CTCF-ChIP-Seq(GSE32465)/Homer(0.965)
Atoh1(bHLH)/Cerebellum-Atoh1-ChIP-Seq(GSE22111)/Homer(0.775)
MA0025.1_NFIL3/Jaspar(0.899)
KLF5(Zf)/LoVo-KLF5-ChIP-Seq(GSE49402)/Homer(0.743)