

# Homer Known Motif Enrichment Results (siCITED1\_MITF\_motifhits/)

[Homer de novo Motif Results](#)

[Gene Ontology Enrichment Results](#)

[Known Motif Enrichment Results \(txt file\)](#)

Total Target Sequences = 22508, Total Background Sequences = 26896

Rank	Motif	Name	P-value	log P-value	q-value (Benjamini)	# Target Sequences with Motif
1		MITF(bHLH)/MastCells-MITF-ChIP-Seq(GSE48085)/Homer	1e-3594	-8.276e+03	0.0000	8526.0
2		Usf2(bHLH)/C2C12-Usf2-ChIP-Seq(GSE36030)/Homer	1e-2850	-6.564e+03	0.0000	4722.0
3		USF1(bHLH)/GM12878-Usf1-ChIP-Seq(GSE32465)/Homer	1e-2348	-5.407e+03	0.0000	5164.0
4		BMAL1(bHLH)/Liver-Bmal1-ChIP-Seq(GSE39860)/Homer	1e-1972	-4.541e+03	0.0000	9667.0
5		CLOCK(bHLH)/Liver-Clock-ChIP-Seq(GSE39860)/Homer	1e-1837	-4.231e+03	0.0000	4915.0
6		TFE3(bHLH)/MEF-TFE3-ChIP-Seq(GSE75757)/Homer	1e-1783	-4.107e+03	0.0000	2138.0
7		Fra1(bZIP)/BT549-Fra1-ChIP-Seq(GSE46166)/Homer	1e-1616	-3.721e+03	0.0000	4531.0
8		Atf3(bZIP)/GBM-ATF3-ChIP-Seq(GSE33912)/Homer	1e-1615	-3.720e+03	0.0000	4921.0
9		Fra2(bZIP)/Striatum-Fra2-ChIP-Seq(GSE43429)/Homer	1e-1598	-3.681e+03	0.0000	4164.0
10		JunB(bZIP)/DendriticCells-Junb-ChIP-Seq(GSE36099)/Homer	1e-1594	-3.671e+03	0.0000	4457.0
11		BATF(bZIP)/Th17-BATF-ChIP-Seq(GSE39756)/Homer	1e-1547	-3.563e+03	0.0000	4828.0
12		AP-1(bZIP)/ThioMac-PU.1-ChIP-Seq(GSE21512)/Homer	1e-1522	-3.506e+03	0.0000	5128.0
13		Fosl2(bZIP)/3T3L1-Fosl2-ChIP-Seq(GSE56872)/Homer	1e-1516	-3.493e+03	0.0000	3320.0
14		Jun-AP1(bZIP)/K562-cJun-ChIP-Seq(GSE31477)/Homer	1e-1384	-3.187e+03	0.0000	2706.0
15		NPAS2(bHLH)/Liver-NPAS2-ChIP-Seq(GSE39860)/Homer	1e-1171	-2.697e+03	0.0000	5885.0
16		bHLHE40(bHLH)/HepG2-BHLHE40-ChIP-Seq(GSE31477)/Homer	1e-1164	-2.681e+03	0.0000	2941.0
17		NPAS(bHLH)/Liver-NPAS-ChIP-Seq(GSE39860)/Homer	1e-1066	-2.456e+03	0.0000	7375.0
18		E-box(bHLH)/Promoter/Homer	1e-939	-2.164e+03	0.0000	1479.0
19		c-Myc(bHLH)/LNCAP-cMyc-ChIP-Seq(Unpublished)/Homer	1e-916	-2.111e+03	0.0000	3426.0
20		Max(bHLH)/K562-Max-ChIP-Seq(GSE31477)/Homer	1e-866	-1.996e+03	0.0000	3931.0
21		n-Myc(bHLH)/mES-nMyc-ChIP-Seq(GSE11431)/Homer	1e-738	-1.701e+03	0.0000	3863.0

22		Bach2(bZIP)/OCILy7-Bach2-ChIP-Seq(GSE44420)/Homer	1e-622	-1.434e+03	0.0000	1642.0
23		Sox9(HMG)/Limb-SOX9-ChIP-Seq(GSE73225)/Homer	1e-293	-6.754e+02	0.0000	3081.0
24		Sox3(HMG)/NPC-Sox3-ChIP-Seq(GSE33059)/Homer	1e-291	-6.713e+02	0.0000	5320.0
25		Sox10(HMG)/SciaticNerve-Sox3-ChIP-Seq(GSE35132)/Homer	1e-267	-6.169e+02	0.0000	5068.0
26		c-Myc(bHLH)/mES-cMyc-ChIP-Seq(GSE11431)/Homer	1e-257	-5.925e+02	0.0000	2092.0
27		CRE(bZIP)/Promoter/Homer	1e-229	-5.280e+02	0.0000	1260.0
28		Sox6(HMG)/Myotubes-Sox6-ChIP-Seq(GSE32627)/Homer	1e-202	-4.658e+02	0.0000	4682.0
29		Fli1(ETS)/CD8-FLI1-ChIP-Seq(GSE20898)/Homer	1e-201	-4.633e+02	0.0000	3761.0
30		Sox15(HMG)/CPA-Sox15-ChIP-Seq(GSE62909)/Homer	1e-198	-4.576e+02	0.0000	3272.0
31		ERG(ETS)/VCaP-ERG-ChIP-Seq(GSE14097)/Homer	1e-193	-4.449e+02	0.0000	4805.0
32		Sox2(HMG)/mES-Sox2-ChIP-Seq(GSE11431)/Homer	1e-184	-4.242e+02	0.0000	2796.0
33		Etv2(ETS)/ES-ER71-ChIP-Seq(GSE59402)/Homer(0.967)	1e-174	-4.009e+02	0.0000	3036.0
34		NF-E2(bZIP)/K562-NFE2-ChIP-Seq(GSE31477)/Homer	1e-172	-3.962e+02	0.0000	460.0
35		ETV1(ETS)/GIST48-ETV1-ChIP-Seq(GSE22441)/Homer	1e-170	-3.928e+02	0.0000	4120.0
36		RUNX(Runt)/HPC7-Runx1-ChIP-Seq(GSE22178)/Homer	1e-169	-3.909e+02	0.0000	2274.0
37		ETS1(ETS)/Jurkat-ETS1-ChIP-Seq(GSE17954)/Homer	1e-163	-3.757e+02	0.0000	3327.0
38		Sox4(HMG)/proB-Sox4-ChIP-Seq(GSE50066)/Homer	1e-163	-3.754e+02	0.0000	2653.0
39		Bach1(bZIP)/K562-Bach1-ChIP-Seq(GSE31477)/Homer	1e-159	-3.678e+02	0.0000	426.0
40		Nrf2(bZIP)/Lymphoblast-Nrf2-ChIP-Seq(GSE37589)/Homer	1e-152	-3.513e+02	0.0000	377.0
41		Sox17(HMG)/Endoderm-Sox17-ChIP-Seq(GSE61475)/Homer	1e-144	-3.331e+02	0.0000	2235.0
42		RUNX1(Runt)/Jurkat-RUNX1-ChIP-Seq(GSE29180)/Homer	1e-134	-3.091e+02	0.0000	2949.0
43		RUNX2(Runt)/PCa-RUNX2-ChIP-Seq(GSE33889)/Homer	1e-132	-3.043e+02	0.0000	2339.0
44		GABPA(ETS)/Jurkat-GABPa-ChIP-Seq(GSE17954)/Homer	1e-131	-3.028e+02	0.0000	2813.0
45		MafK(bZIP)/C2C12-MafK-ChIP-Seq(GSE36030)/Homer	1e-128	-2.958e+02	0.0000	876.0
		EWS:FLI1-fusion(ETS)/SK_N_MC-	1e-			

























46		EWS:FLI1-ChIP-Seq(SRA014231)/Homer	123	-2.849e+02	0.0000	1891.0
47		RUNX-AML(Runt)/CD4+-PolII-ChIP-Seq(Barski_et_al.)/Homer	1e-122	-2.831e+02	0.0000	2093.0
48		CTCF(Zf)/CD4+-CTCF-ChIP-Seq(Barski_et_al.)/Homer	1e-120	-2.776e+02	0.0000	579.0
49		EWS:ERG-fusion(ETS)/CADO_ES1-EWS:ERG-ChIP-Seq(SRA014231)/Homer	1e-113	-2.622e+02	0.0000	2283.0
50		Elk4(ETS)/Hela-Elk4-ChIP-Seq(GSE31477)/Homer	1e-110	-2.540e+02	0.0000	1959.0
51		Elk1(ETS)/Hela-Elk1-ChIP-Seq(GSE31477)/Homer	1e-105	-2.437e+02	0.0000	1943.0
52		ELF1(ETS)/Jurkat-ELF1-ChIP-Seq(SRA014231)/Homer	1e-93	-2.143e+02	0.0000	1712.0
53		AP-2gamma(AP2)/MCF7-TFAP2C-ChIP-Seq(GSE21234)/Homer	1e-92	-2.139e+02	0.0000	3459.0
54		NF1(CTF)/LNCAP-NF1-ChIP-Seq(Unpublished)/Homer	1e-92	-2.137e+02	0.0000	1228.0
55		AP-2alpha(AP2)/Hela-AP2alpha-ChIP-Seq(GSE31477)/Homer	1e-90	-2.088e+02	0.0000	2754.0
56		ETS(ETS)/Promoter/Homer	1e-85	-1.958e+02	0.0000	1142.0
57		EHF(ETS)/LoVo-EHF-ChIP-Seq(GSE49402)/Homer	1e-83	-1.931e+02	0.0000	3540.0
58		Six1(Homeobox)/Myoblast-Six1-ChIP-Chip(GSE20150)/Homer	1e-83	-1.927e+02	0.0000	848.0
59		BORIS(Zf)/K562-CTCF-ChIP-Seq(GSE32465)/Homer	1e-77	-1.791e+02	0.0000	760.0
60		ELF3(ETS)/PDAC-ELF3-ChIP-Seq(GSE64557)/Homer	1e-74	-1.724e+02	0.0000	2045.0
61		Ets1-distal(ETS)/CD4+-PolII-ChIP-Seq(Barski_et_al.)/Homer	1e-71	-1.639e+02	0.0000	1018.0
62		SPDEF(ETS)/VCaP-SPDEF-ChIP-Seq(SRA014231)/Homer	1e-67	-1.563e+02	0.0000	2659.0
63		Sp1(Zf)/Promoter/Homer	1e-66	-1.525e+02	0.0000	1087.0
64		NFAT:AP1(RHD,bZIP)/Jurkat-NFATC1-ChIP-Seq(Jolma_et_al.)/Homer	1e-65	-1.517e+02	0.0000	660.0
65		Sp5(Zf)/mES-Sp5.Flag-ChIP-Seq(GSE72989)/Homer	1e-60	-1.401e+02	0.0000	2856.0
66		HIF-1b(HLH)/T47D-HIF1b-ChIP-Seq(GSE59937)/Homer	1e-60	-1.387e+02	0.0000	3100.0
67		HLF(bZIP)/HSC-HLF.Flag-ChIP-Seq(GSE69817)/Homer	1e-56	-1.303e+02	0.0000	2074.0
68		KLF14(Zf)/HEK293-KLF14.GFP-ChIP-Seq(GSE58341)/Homer	1e-56	-1.295e+02	0.0000	4577.0
69		ELF5(ETS)/T47D-ELF5-ChIP-Seq(GSE30407)/Homer	1e-54	-1.259e+02	0.0000	2002.0
70		MafA(bZIP)/Islet-MafA-ChIP-Seq(GSE30298)/Homer	1e-54	-1.253e+02	0.0000	2134.0

71		Ap4(bHLH)/AML-Tfap4-ChIP-Seq(GSE45738)/Homer	1e-50	-1.158e+02	0.0000	3189.0
72		COUP-TFII(NR)/Artia-Nr2f2-ChIP-Seq(GSE46497)/Homer	1e-49	-1.146e+02	0.0000	4002.0
73		CEBP(bZIP)/ThioMac-CEBPb-ChIP-Seq(GSE21512)/Homer	1e-49	-1.134e+02	0.0000	1791.0
74		Foxo1(Forkhead)/RAW-Foxo1-ChIP-Seq(Fan_et_al.)/Homer	1e-49	-1.134e+02	0.0000	4472.0
75		KLF3(Zf)/MEF-Klf3-ChIP-Seq(GSE44748)/Homer	1e-44	-1.021e+02	0.0000	1378.0
76		PU.1(ETS)/ThioMac-PU.1-ChIP-Seq(GSE21512)/Homer	1e-44	-1.020e+02	0.0000	1332.0
77		Klf9(Zf)/GBM-Klf9-ChIP-Seq(GSE62211)/Homer	1e-41	-9.484e+01	0.0000	1052.0
78		Six2(Homeobox)/NephronProgenitor-Six2-ChIP-Seq(GSE39837)/Homer	1e-39	-9.089e+01	0.0000	2324.0
79		NFAT(RHD)/Jurkat-NFATC1-ChIP-Seq(Jolma_et_al.)/Homer	1e-38	-8.824e+01	0.0000	2408.0
80		ETS:RUNX(ETS,Runt)/Jurkat-RUNX1-ChIP-Seq(GSE17954)/Homer	1e-38	-8.757e+01	0.0000	358.0
81		CEBP:AP1(bZIP)/ThioMac-CEBPb-ChIP-Seq(GSE21512)/Homer	1e-33	-7.664e+01	0.0000	1849.0
82		EBF1(EBF)/Near-E2A-ChIP-Seq(GSE21512)/Homer	1e-33	-7.652e+01	0.0000	2797.0
83		Tlx?(NR)/NPC-H3K4me1-ChIP-Seq(GSE16256)/Homer	1e-33	-7.649e+01	0.0000	1061.0
84		Tgif2(Homeobox)/mES-Tgif2-ChIP-Seq(GSE55404)/Homer	1e-33	-7.605e+01	0.0000	7979.0
85		KLF6(Zf)/PDAC-KLF6-ChIP-Seq(GSE64557)/Homer	1e-32	-7.577e+01	0.0000	2831.0
86		Maz(Zf)/HepG2-Maz-ChIP-Seq(GSE31477)/Homer	1e-31	-7.337e+01	0.0000	3525.0
87		Atf4(bZIP)/MEF-Atf4-ChIP-Seq(GSE35681)/Homer	1e-31	-7.315e+01	0.0000	799.0
88		MafB(bZIP)/BMM-Mafb-ChIP-Seq(GSE75722)/Homer	1e-31	-7.262e+01	0.0000	961.0
89		KLF5(Zf)/LoVo-KLF5-ChIP-Seq(GSE49402)/Homer	1e-31	-7.198e+01	0.0000	3367.0
90		Nkx6.1(Homeobox)/Islet-Nkx6.1-ChIP-Seq(GSE40975)/Homer	1e-30	-7.039e+01	0.0000	6156.0
91		GFX(?)/Promoter/Homer	1e-28	-6.644e+01	0.0000	61.0
92		Chop(bZIP)/MEF-Chop-ChIP-Seq(GSE35681)/Homer	1e-28	-6.532e+01	0.0000	639.0
93		THRb(NR)/Liver-NR1A2-ChIP-Seq(GSE52613)/Homer	1e-28	-6.483e+01	0.0000	8788.0
94		SCL(bHLH)/HPC7-Sci-ChIP-Seq(GSE13511)/Homer	1e-27	-6.326e+01	0.0000	10305.0
95		Atf7(bZIP)/3T3L1-Atf7-ChIP-Seq(GSE56872)/Homer	1e-26	-6.204e+01	0.0000	1180.0



96		Pitx1(Homeobox)/Chicken-Pitx1-ChIP-Seq(GSE38910)/Homer	1e-26	-6.030e+01	0.0000	8909.0
97		Egr1(Zf)/K562-Egr1-ChIP-Seq(GSE32465)/Homer	1e-26	-6.017e+01	0.0000	1768.0
98		Mef2b(MADS)/HEK293-Mef2b.V5-ChIP-Seq(GSE67450)/Homer	1e-26	-5.994e+01	0.0000	1820.0
99		Mef2a(MADS)/HL1-Mef2a.biotin-ChIP-Seq(GSE21529)/Homer	1e-25	-5.837e+01	0.0000	941.0
100		MyoD(bHLH)/Myotube-MyoD-ChIP-Seq(GSE21614)/Homer	1e-24	-5.662e+01	0.0000	1893.0
101		Mef2d(MADS)/Retina-Mef2d-ChIP-Seq(GSE61391)/Homer	1e-24	-5.658e+01	0.0000	469.0
102		TEAD(TEA)/Fibroblast-PU.1-ChIP-Seq(Unpublished)/Homer	1e-24	-5.602e+01	0.0000	1632.0
103		Nanog(Homeobox)/mES-Nanog-ChIP-Seq(GSE11724)/Homer	1e-24	-5.590e+01	0.0000	9389.0
104		NF1-halfsite(CTF)/LNCaP-NF1-ChIP-Seq(Unpublished)/Homer	1e-23	-5.514e+01	0.0000	4149.0
105		EBF(EBF)/proBcell-EBF-ChIP-Seq(GSE21978)/Homer	1e-23	-5.475e+01	0.0000	608.0
106		HOXB13(Homeobox)/ProstateTumor-HOXB13-ChIP-Seq(GSE56288)/Homer	1e-23	-5.398e+01	0.0000	2354.0
107		Atf1(bZIP)/K562-ATF1-ChIP-Seq(GSE31477)/Homer	1e-22	-5.288e+01	0.0000	1645.0
108		TEAD4(TEA)/Tropoblast-Tead4-ChIP-Seq(GSE37350)/Homer	1e-22	-5.276e+01	0.0000	1970.0
109		Lhx3(Homeobox)/Neuron-Lhx3-ChIP-Seq(GSE31456)/Homer	1e-22	-5.185e+01	0.0000	3871.0
110		Lhx2(Homeobox)/HFSC-Lhx2-ChIP-Seq(GSE48068)/Homer	1e-22	-5.183e+01	0.0000	2448.0
111		Zfp281(Zf)/ES-Zfp281-ChIP-Seq(GSE81042)/Homer	1e-22	-5.170e+01	0.0000	531.0
112		STAT4(Stat)/CD4-Stat4-ChIP-Seq(GSE22104)/Homer	1e-22	-5.128e+01	0.0000	2253.0
113		FOXK1(Forkhead)/HEK293-FOXK1-ChIP-Seq(GSE51673)/Homer	1e-22	-5.125e+01	0.0000	2374.0
114		Pdx1(Homeobox)/Islet-Pdx1-ChIP-Seq(SRA008281)/Homer	1e-21	-4.939e+01	0.0000	2413.0
115		Hoxb4(Homeobox)/ES-Hoxb4-ChIP-Seq(GSE34014)/Homer	1e-21	-4.926e+01	0.0000	531.0
116		HIF-1a(bHLH)/MCF7-HIF1a-ChIP-Seq(GSE28352)/Homer	1e-21	-4.876e+01	0.0000	733.0
117		Stat3+il21(Stat)/CD4-Stat3-ChIP-Seq(GSE19198)/Homer	1e-20	-4.816e+01	0.0000	1566.0
118		FoxL2(Forkhead)/Ovary-FoxL2-ChIP-Seq(GSE60858)/Homer	1e-20	-4.800e+01	0.0000	1864.0
119		Hoxc9(Homeobox)/Ainv15-Hoxc9-ChIP-Seq(GSE21812)/Homer	1e-20	-4.737e+01	0.0000	1175.0
120		Egr2(Zf)/Thymocytes-Egr2-ChIP-Seq(GSE34254)/Homer	1e-20	-4.653e+01	0.0000	526.0

121		HOXA9(Homeobox)/HSC-Hoxa9-ChIP-Seq(GSE33509)/Homer	1e-19	-4.535e+01	0.0000	1541.0
122		Mef2c(MADS)/GM12878-Mef2c-ChIP-Seq(GSE32465)/Homer	1e-19	-4.512e+01	0.0000	959.0
123		Ronin(THAP)/ES-Thap11-ChIP-Seq(GSE51522)/Homer	1e-19	-4.437e+01	0.0000	158.0
124		GFY-Staf(?_Zf)/Promoter/Homer	1e-19	-4.416e+01	0.0000	204.0
125		Myf5(bHLH)/GM-Myf5-ChIP-Seq(GSE24852)/Homer	1e-19	-4.409e+01	0.0000	1648.0
126		ZNF317(Zf)/HEK293-ZNF317.GFP-ChIP-Seq(GSE58341)/Homer	1e-18	-4.341e+01	0.0000	215.0
127		Bcl6(Zf)/Liver-Bcl6-ChIP-Seq(GSE31578)/Homer	1e-18	-4.312e+01	0.0000	3025.0
128		Atf2(bZIP)/3T3L1-Atf2-ChIP-Seq(GSE56872)/Homer	1e-18	-4.146e+01	0.0000	811.0
129		Stat3(Stat)/mES-Stat3-ChIP-Seq(GSE11431)/Homer	1e-17	-4.018e+01	0.0000	1203.0
130		CDX4(Homeobox)/ZebrafishEmbryos-Cdx4.Myc-ChIP-Seq(GSE48254)/Homer	1e-17	-4.013e+01	0.0000	1938.0
131		NRF1(NRF)/MCF7-NRF1-ChIP-Seq(Unpublished)/Homer	1e-16	-3.870e+01	0.0000	451.0
132		c-Jun-CRE(bZIP)/K562-cJun-ChIP-Seq(GSE31477)/Homer	1e-16	-3.832e+01	0.0000	725.0
133		Foxo3(Forkhead)/U2OS-Foxo3-ChIP-Seq(E-MTAB-2701)/Homer	1e-16	-3.709e+01	0.0000	1710.0
134		HOXD13(Homeobox)/Chicken-Hoxd13-ChIP-Seq(GSE38910)/Homer	1e-15	-3.638e+01	0.0000	2302.0
135		Smad3(MAD)/NPC-Smad3-ChIP-Seq(GSE36673)/Homer	1e-15	-3.619e+01	0.0000	5984.0
136		FOXA1(Forkhead)/MCF7-FOXA1-ChIP-Seq(GSE26831)/Homer	1e-15	-3.613e+01	0.0000	2008.0
137		Foxf1(Forkhead)/Lung-Foxf1-ChIP-Seq(GSE77951)/Homer	1e-15	-3.513e+01	0.0000	1972.0
138		MyoG(bHLH)/C2C12-MyoG-ChIP-Seq(GSE36024)/Homer	1e-14	-3.451e+01	0.0000	2452.0
139		FOXP1(Forkhead)/H9-FOXP1-ChIP-Seq(GSE31006)/Homer	1e-14	-3.383e+01	0.0000	969.0
140		Unknown(Homeobox)/Limb-p300-ChIP-Seq/Homer	1e-13	-3.109e+01	0.0000	1420.0
141		Lhx1(Homeobox)/EmbryoCarcinoma-Lhx1-ChIP-Seq(GSE70957)/Homer	1e-13	-3.083e+01	0.0000	2511.0
142		Klf4(Zf)/mES-Klf4-ChIP-Seq(GSE11431)/Homer	1e-13	-3.017e+01	0.0000	889.0
143		Pitx1:Ebox(Homeobox_bHLH)/Hindlimb-Pitx1-ChIP-Seq(GSE41591)/Homer	1e-13	-2.999e+01	0.0000	449.0
144		Esrrb(NR)/mES-Esrrb-ChIP-Seq(GSE11431)/Homer	1e-12	-2.933e+01	0.0000	1409.0
145		TEAD2(TEA)/Py2T-Tead2-ChIP-Seq(GSE55709)/Homer	1e-12	-2.911e+01	0.0000	1180.0

146		Rfx2(HTH)/LoVo-RFX2-ChIP-Seq(GSE49402)/Homer	1e-12	-2.904e+01	0.0000	228.0
147		Cdx2(Homeobox)/mES-Cdx2-ChIP-Seq(GSE14586)/Homer	1e-12	-2.865e+01	0.0000	1479.0
148		Erra(NR)/HepG2-Erra-ChIP-Seq(GSE31477)/Homer	1e-12	-2.846e+01	0.0000	4601.0
149		OCT:OCT-short(POU,Homeobox)/NPC-OCT6-ChIP-Seq(GSE43916)/Homer	1e-12	-2.823e+01	0.0000	1631.0
150		Isl1(Homeobox)/Neuron-Isl1-ChIP-Seq(GSE31456)/Homer	1e-12	-2.791e+01	0.0000	4125.0
151		CRX(Homeobox)/Retina-Crx-ChIP-Seq(GSE20012)/Homer	1e-12	-2.784e+01	0.0000	4496.0
152		GFY(?)/Promoter/Homer	1e-12	-2.765e+01	0.0000	221.0
153		NRF(NRF)/Promoter/Homer	1e-11	-2.760e+01	0.0000	514.0
154		GSC(Homeobox)/FrogEmbryos-GSC-ChIP-Seq(DRA000576)/Homer	1e-11	-2.759e+01	0.0000	2207.0
155		Nur77(NR)/K562-NR4A1-ChIP-Seq(GSE31363)/Homer	1e-11	-2.752e+01	0.0000	495.0
156		ZNF143(STAF(Zf)/CUTLL-ZNF143-ChIP-Seq(GSE29600)/Homer	1e-11	-2.677e+01	0.0000	751.0
157		PAX3:FKHR-fusion(Paired,Homeobox)/Rh4-PAX3:FKHR-ChIP-Seq(GSE19063)/Homer	1e-11	-2.643e+01	0.0000	477.0
158		RFX(HTH)/K562-RFX3-ChIP-Seq(SRA012198)/Homer	1e-11	-2.602e+01	0.0000	207.0
159		Arnt:Ahr(bHLH)/MCF7-Arnt-ChIP-Seq(Lo_et_al.)/Homer	1e-11	-2.540e+01	0.0000	1447.0
160		Rfx1(HTH)/NPC-H3K4me1-ChIP-Seq(GSE16256)/Homer	1e-10	-2.525e+01	0.0000	433.0
161		Tcf21(bHLH)/ArterySmoothMuscle-Tcf21-ChIP-Seq(GSE61369)/Homer	1e-10	-2.502e+01	0.0000	2207.0
162		Oct4:Sox17(POU,Homeobox,HMG)/F9-Sox17-ChIP-Seq(GSE44553)/Homer	1e-10	-2.468e+01	0.0000	330.0
163		THRa(NR)/C17.2-THRa-ChIP-Seq(GSE38347)/Homer	1e-10	-2.456e+01	0.0000	867.0
164		ZNF467(Zf)/HEK293-ZNF467.GFP-ChIP-Seq(GSE58341)/Homer	1e-10	-2.438e+01	0.0000	2002.0
165		PU.1-IRF(ETS:IRF)/Bcell-PU.1-ChIP-Seq(GSE21512)/Homer	1e-10	-2.393e+01	0.0000	2898.0
166		E2F3(E2F)/MEF-E2F3-ChIP-Seq(GSE71376)/Homer	1e-10	-2.376e+01	0.0000	1480.0
167		IRF1(IRF)/PBMC-IRF1-ChIP-Seq(GSE43036)/Homer	1e-10	-2.348e+01	0.0000	331.0
168		TATA-Box(TBP)/Promoter/Homer	1e-10	-2.332e+01	0.0000	2600.0
169		IRF8(IRF)/BMDM-IRF8-ChIP-Seq(GSE77884)/Homer	1e-10	-2.324e+01	0.0000	714.0
		FOXA1(Forkhead)/LNCAP-FOXA1-ChIP-				

170		Seq(GSE27824)/Homer	1e-9	-2.276e+01	0.0000	2474.0
171		E2F6(E2F)/Hela-E2F6-ChIP-Seq(GSE31477)/Homer	1e-9	-2.152e+01	0.0000	1290.0
172		Gata4(Zf)/Heart-Gata4-ChIP-Seq(GSE35151)/Homer	1e-9	-2.101e+01	0.0000	1966.0
173		bZIP:IRF(bZIP,IRF)/Th17-BatF-ChIP-Seq(GSE39756)/Homer	1e-8	-2.049e+01	0.0000	928.0
174		GATA3(Zf)/iTreg-Gata3-ChIP-Seq(GSE20898)/Homer	1e-8	-2.037e+01	0.0000	2930.0
175		Reverb(NR)_DR2/RAW-Reverba.biotin-ChIP-Seq(GSE45914)/Homer	1e-8	-2.012e+01	0.0000	315.0
176		Rbpj1(?)/Panc1-Rbpj1-ChIP-Seq(GSE47459)/Homer	1e-8	-1.954e+01	0.0000	3262.0
177		Tgif1(Homeobox)/mES-Tgif1-ChIP-Seq(GSE55404)/Homer	1e-8	-1.932e+01	0.0000	7063.0
178		FOXK2(Forkhead)/U2OS-FOXK2-ChIP-Seq(E-MTAB-2204)/Homer	1e-8	-1.919e+01	0.0000	1415.0
179		Atoh1(bHLH)/Cerebellum-Atoh1-ChIP-Seq(GSE22111)/Homer	1e-8	-1.905e+01	0.0000	2405.0
180		Gata6(Zf)/HUG1N-GATA6-ChIP-Seq(GSE51936)/Homer	1e-8	-1.855e+01	0.0000	1750.0
181		FOXM1(Forkhead)/MCF7-FOXM1-ChIP-Seq(GSE72977)/Homer	1e-8	-1.854e+01	0.0000	2049.0
182		PR(NR)/T47D-PR-ChIP-Seq(GSE31130)/Homer	1e-7	-1.827e+01	0.0000	4500.0
183		Rfx6(HTH)/Min6b1-Rfx6.HA-ChIP-Seq(GSE62844)/Homer	1e-7	-1.814e+01	0.0000	2130.0
184		Gata1(Zf)/K562-GATA1-ChIP-Seq(GSE18829)/Homer	1e-7	-1.799e+01	0.0000	1080.0
185		LXRE(NR)_DR4/RAW-LXRb.biotin-ChIP-Seq(GSE21512)/Homer	1e-7	-1.723e+01	0.0000	116.0
186		ZBTB33(Zf)/GM12878-ZBTB33-ChIP-Seq(GSE32465)/Homer	1e-7	-1.716e+01	0.0000	117.0
187		IRF2(IRF)/Erythroblas-IRF2-ChIP-Seq(GSE36985)/Homer	1e-7	-1.688e+01	0.0000	236.0
188		Gata2(Zf)/K562-GATA2-ChIP-Seq(GSE18829)/Homer	1e-7	-1.666e+01	0.0000	1235.0
189		STAT1(Stat)/HelaS3-STAT1-ChIP-Seq(GSE12782)/Homer	1e-7	-1.658e+01	0.0000	649.0
190		RAR:RXR(NR)_DR5/ES-RAR-ChIP-Seq(GSE56893)/Homer	1e-7	-1.634e+01	0.0000	85.0
191		Twist(bHLH)/HMLE-TWIST1-ChIP-Seq(Chang_et_al)/Homer	1e-7	-1.617e+01	0.0000	329.0
192		Foxa3(Forkhead)/Liver-Foxa3-ChIP-Seq(GSE77670)/Homer	1e-6	-1.584e+01	0.0000	667.0
193		Otx2(Homeobox)/EpiLC-Otx2-ChIP-Seq(GSE56098)/Homer	1e-6	-1.584e+01	0.0000	1409.0
194		RORgt(NR)/EL4-RORgt.Flag-ChIP-Seq(GSE56019)/Homer	1e-6	-1.580e+01	0.0000	267.0



195		NeuroG2(bHLH)/Fibroblast-NeuroG2-ChIP-Seq(GSE75910)/Homer	1e-6	-1.569e+01	0.0000	3444.0
196		ZNF189(Zf)/HEK293-ZNF189.GFP-ChIP-Seq(GSE58341)/Homer	1e-6	-1.569e+01	0.0000	1681.0
197		IRF4(IRF)/GM12878-IRF4-ChIP-Seq(GSE32465)/Homer	1e-6	-1.566e+01	0.0000	930.0
198		E2F4(E2F)/K562-E2F4-ChIP-Seq(GSE31477)/Homer	1e-6	-1.531e+01	0.0000	1117.0
199		GATA3(Zf),DR4/iTreg-Gata3-ChIP-Seq(GSE20898)/Homer	1e-6	-1.522e+01	0.0000	183.0
200		JunD(bZIP)/K562-JunD-ChIP-Seq/Homer	1e-6	-1.471e+01	0.0000	249.0
201		AMYB(HTH)/Testes-AMYB-ChIP-Seq(GSE44588)/Homer	1e-6	-1.402e+01	0.0000	3233.0
202		MYB(HTH)/ERMYB-Myb-ChIPSeq(GSE22095)/Homer	1e-6	-1.385e+01	0.0000	3745.0
203		Fox:Ebox(Forkhead,bHLH)/Panc1-Foxa2-ChIP-Seq(GSE47459)/Homer	1e-5	-1.354e+01	0.0000	1963.0
204		SpiB(ETS)/OCILY3-SPIB-ChIP-Seq(GSE56857)/Homer	1e-5	-1.350e+01	0.0000	559.0
205		Tcf4(HMG)/Hct116-Tcf4-ChIP-Seq(SRA012054)/Homer	1e-5	-1.302e+01	0.0000	950.0
206		Pax8(Paired,Homeobox)/Thyroid-Pax8-ChIP-Seq(GSE26938)/Homer	1e-5	-1.284e+01	0.0000	646.0
207		NFY(CCAAT)/Promoter/Homer	1e-5	-1.276e+01	0.0000	1625.0
208		PAX5(Paired,Homeobox)/GM12878-PAX5-ChIP-Seq(GSE32465)/Homer	1e-5	-1.268e+01	0.0000	760.0
209		Barx1(Homeobox)/Stomach-Barx1.3xFlag-ChIP-Seq(GSE69483)/Homer	1e-5	-1.241e+01	0.0000	1000.0
210		Rfx5(HTH)/GM12878-Rfx5-ChIP-Seq(GSE31477)/Homer	1e-5	-1.202e+01	0.0000	585.0
211		X-box(HTH)/NPC-H3K4me1-ChIP-Seq(GSE16256)/Homer	1e-5	-1.201e+01	0.0000	233.0
212		Foxh1(Forkhead)/hESC-FOXH1-ChIP-Seq(GSE29422)/Homer	1e-5	-1.164e+01	0.0000	1230.0
213		ETS:E-box(ETS,bHLH)/HPC7-Sc1-ChIP-Seq(GSE22178)/Homer	1e-4	-1.149e+01	0.0000	204.0
214		Meis1(Homeobox)/MastCells-Meis1-ChIP-Seq(GSE48085)/Homer	1e-4	-1.103e+01	0.0000	3715.0
215		Foxa2(Forkhead)/Liver-Foxa2-ChIP-Seq(GSE25694)/Homer	1e-4	-1.097e+01	0.0000	1581.0
216		STAT5(Stat)/mCD4+-Stat5-ChIP-Seq(GSE12346)/Homer	1e-4	-1.093e+01	0.0000	730.0
217		ZFX(Zf)/mES-Zfx-ChIP-Seq(GSE11431)/Homer	1e-4	-1.069e+01	0.0000	2963.0
218		ISRE(IRF)/ThioMac-LPS-Expression(GSE23622)/Homer	1e-4	-1.062e+01	0.0000	145.0
219		Tcf12(bHLH)/GM12878-Tcf12-ChIP-Seq(GSE32465)/Homer	1e-4	-9.719e+00	0.0001	2144.0

220		PU.1:IRF8(ETS:IRF)/pDC-Irf8-ChIP-Seq(GSE66899)/Homer	1e-4	-9.383e+00	0.0001	413.0
221		GATA:SCL(Zf,bHLH)/Ter119-SCL-ChIP-Seq(GSE18720)/Homer	1e-3	-8.999e+00	0.0002	219.0
222		BMYB(HTH)/Hela-BMYB-ChIP-Seq(GSE27030)/Homer	1e-3	-8.971e+00	0.0002	3113.0
223		Zic3(Zf)/mES-Zic3-ChIP-Seq(GSE37889)/Homer	1e-3	-8.310e+00	0.0004	1352.0
224		Nkx3.1(Homeobox)/LNCaP-Nkx3.1-ChIP-Seq(GSE28264)/Homer	1e-3	-8.247e+00	0.0004	4568.0
225		GATA(Zf),IR4/iTreg-Gata3-ChIP-Seq(GSE20898)/Homer	1e-3	-8.246e+00	0.0004	152.0
226		PGR(NR)/EndoStromal-PGR-ChIP-Seq(GSE69539)/Homer	1e-3	-8.085e+00	0.0005	490.0
227		PAX5(Paired_Homeobox),condensed/GM12878-PAX5-ChIP-Seq(GSE32465)/Homer	1e-3	-7.920e+00	0.0006	246.0
228		p63(p53)/Keratinocyte-p63-ChIP-Seq(GSE17611)/Homer	1e-3	-7.678e+00	0.0007	608.0
229		PRDM1(Zf)/Hela-PRDM1-ChIP-Seq(GSE31477)/Homer	1e-3	-7.620e+00	0.0008	1103.0
230		STAT6(Stat)/CD4-Stat6-ChIP-Seq(GSE22104)/Homer	1e-3	-7.418e+00	0.0010	1208.0
231		IRF:BATF(IRF:bZIP)/pDC-Irf8-ChIP-Seq(GSE66899)/Homer	1e-3	-7.388e+00	0.0010	267.0
232		Olig2(bHLH)/Neuron-Olig2-ChIP-Seq(GSE30882)/Homer	1e-3	-7.374e+00	0.0010	3965.0
233		KLF10(Zf)/HEK293-KLF10.GFP-ChIP-Seq(GSE58341)/Homer	1e-3	-7.313e+00	0.0010	1200.0
234		PAX6(Paired_Homeobox)/Forebrain-Pax6-ChIP-Seq(GSE66961)/Homer	1e-3	-7.094e+00	0.0013	174.0
235		ZNF416(Zf)/HEK293-ZNF416.GFP-ChIP-Seq(GSE58341)/Homer	1e-3	-7.058e+00	0.0013	2770.0
236		NeuroD1(bHLH)/Islet-NeuroD1-ChIP-Seq(GSE30298)/Homer	1e-3	-6.946e+00	0.0015	1704.0
237		NFkB-p65(RHD)/GM12787-p65-ChIP-Seq(GSE19485)/Homer	1e-2	-6.856e+00	0.0016	997.0
238		IRF3(IRF)/BMDM-Irf3-ChIP-Seq(GSE67343)/Homer	1e-2	-6.833e+00	0.0016	644.0
239		Ptf1a(bHLH)/Panc1-Ptf1a-ChIP-Seq(GSE47459)/Homer	1e-2	-6.504e+00	0.0023	5908.0
240		T1ISRE(IRF)/ThioMac-Ifnb-Expression/Homer	1e-2	-6.313e+00	0.0027	28.0
241		p53(p53)/mES-cMyc-ChIP-Seq(GSE11431)/Homer	1e-2	-6.172e+00	0.0032	40.0
242		E2F7(E2F)/Hela-E2F7-ChIP-Seq(GSE32673)/Homer	1e-2	-6.118e+00	0.0033	272.0
243		Unknown-ESC-element(?)/mES-Nanog-ChIP-Seq(GSE11724)/Homer	1e-2	-5.963e+00	0.0039	1242.0
244		GRE(NR),IR3/RAW264.7-GRE-ChIP-Seq(Unpublished)/Homer	1e-2	-5.903e+00	0.0041	462.0

245		DMRT6(DM)/Testis-DMRT6-ChIP-Seq(GSE60440)/Homer	1e-2	-5.862e+00	0.0042	355.0
246		Zic(Zf)/Cerebellum-ZIC1.2-ChIP-Seq(GSE60731)/Homer	1e-2	-5.713e+00	0.0049	1707.0
247		REST-NRSF(Zf)/Jurkat-NRSF-ChIP-Seq/Homer	1e-2	-5.625e+00	0.0053	20.0
248		Smad2(MAD)/ES-SMAD2-ChIP-Seq(GSE29422)/Homer	1e-2	-5.604e+00	0.0054	3184.0
249		E2F1(E2F)/Hela-E2F1-ChIP-Seq(GSE22478)/Homer	1e-2	-5.547e+00	0.0057	551.0
250		AR-halfsite(NR)/LNCaP-AR-ChIP-Seq(GSE27824)/Homer	1e-2	-5.356e+00	0.0069	7791.0
251		ERE(NR),IR3/MCF7-ERa-ChIP-Seq(Unpublished)/Homer	1e-2	-5.340e+00	0.0070	514.0
252		MafF(bZIP)/HepG2-MafF-ChIP-Seq(GSE31477)/Homer	1e-2	-5.068e+00	0.0091	549.0
253		CArG(MADS)/PUER-Srf-ChIP-Seq(Sullivan_et_al.)/Homer	1e-2	-4.885e+00	0.0109	514.0
254		ZNF322(Zf)/HEK293-ZNF322.GFP-ChIP-Seq(GSE58341)/Homer	1e-2	-4.642e+00	0.0138	527.0