

















Homer Known Motif Enrichment Results (Strong_novel_embryonic_heart_enhancers)






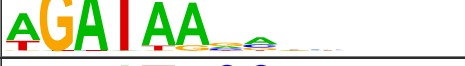









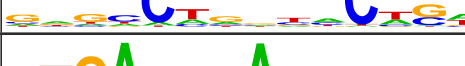




[Homer de novo Motif Results](#)

[Gene Ontology Enrichment Results](#)

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







Total Target Sequences = 9091, Total Background Sequences = 41272

Rank	Motif	Name	P-value	log P-value	q-value (Benjamini)	# Target Sequences with Motif	% of Targets Sequences with Motif	# Background Sequences with Motif	% of Background Sequences with Motif	Motif File	SVG
1		Mef2d(MADS)/Retina-Mef2d-ChIP-Seq(GSE61391)/Homer	1e-59	-1.374e+02	0.0000	890.0	9.79%	2261.7	5.48%	motif file (matrix)	svg
2		Mef2c(MADS)/GM12878-Mef2c-ChIP-Seq(GSE32465)/Homer	1e-48	-1.114e+02	0.0000	1697.0	18.66%	5441.2	13.18%	motif file (matrix)	svg
3		Gata1(Zf)/K562-GATA1-ChIP-Seq(GSE18829)/Homer	1e-35	-8.144e+01	0.0000	1917.0	21.08%	6641.8	16.08%	motif file (matrix)	svg
4		Gata6(Zf)/HUG1N-GATA6-ChIP-Seq(GSE51936)/Homer	1e-34	-8.024e+01	0.0000	2850.0	31.34%	10547.4	25.54%	motif file (matrix)	svg
5		Gata2(Zf)/K562-GATA2-ChIP-Seq(GSE18829)/Homer	1e-33	-7.627e+01	0.0000	2106.0	23.16%	7482.8	18.12%	motif file (matrix)	svg
6		NF1(CTF)/LNCAP-NF1-ChIP-Seq(Unpublished)/Homer	1e-32	-7.540e+01	0.0000	1122.0	12.34%	3551.7	8.60%	motif file (matrix)	svg
7		Gata4(Zf)/Heart-Gata4-ChIP-Seq(GSE35151)/Homer	1e-31	-7.255e+01	0.0000	3025.0	33.27%	11414.4	27.64%	motif file (matrix)	svg
8		Mef2b(MADS)/HEK293-Mef2b.V5-ChIP-Seq(GSE67450)/Homer	1e-30	-7.062e+01	0.0000	2660.0	29.25%	9885.1	23.94%	motif file (matrix)	svg
9		Mef2a(MADS)/HL1-Mef2a.biotin-ChIP-Seq(GSE21529)/Homer	1e-23	-5.492e+01	0.0000	1474.0	16.21%	5178.6	12.54%	motif file (matrix)	svg
10		Tbx20(T-box)/Heart-Tbx20-ChIP-Seq(GSE29636)/Homer	1e-21	-5.054e+01	0.0000	708.0	7.79%	2205.1	5.34%	motif file (matrix)	svg
11		Tlx?(NR)/NPC-H3K4me1-ChIP-Seq(GSE16256)/Homer	1e-20	-4.813e+01	0.0000	1152.0	12.67%	3967.3	9.61%	motif file (matrix)	svg
12		GATA3(Zf)/iTreg-Gata3-ChIP-Seq(GSE20898)/Homer	1e-16	-3.805e+01	0.0000	4005.0	44.04%	16403.4	39.72%	motif file (matrix)	svg
13		Esrrb(NR)/mES-Esrrb-ChIP-Seq(GSE11431)/Homer	1e-13	-3.117e+01	0.0000	1590.0	17.49%	6040.3	14.63%	motif file (matrix)	svg
14		ERRg(NR)/Kidney-ESRRG-ChIP-Seq(GSE104905)/Homer	1e-10	-2.515e+01	0.0000	1940.0	21.34%	7663.7	18.56%	motif file (matrix)	svg
15		TEAD(TEA)/Fibroblast-PU.1-ChIP-Seq(Unpublished)/Homer	1e-10	-2.422e+01	0.0000	1938.0	21.31%	7677.6	18.59%	motif file (matrix)	svg
16		TEAD4(TEA)/Tropoblast-Tead4-ChIP-Seq(GSE37350)/Homer	1e-9	-2.295e+01	0.0000	2160.0	23.75%	8670.6	21.00%	motif file (matrix)	svg
17		Hand2(bHLH)/Mesoderm-Hand2-ChIP-Seq(GSE61475)/Homer	1e-9	-2.164e+01	0.0000	1305.0	14.35%	5033.9	12.19%	motif file	svg

											(matrix)	
18		TEAD1(TEAD)/HepG2-TEAD1-ChIP-Seq(Encode)/Homer	1e-9	-2.135e+01	0.0000	2551.0	28.05%	10422.9	25.24%	motif file (matrix)	svg	
19		TEAD2(TEA)/Py2T-Tead2-ChIP-Seq(GSE55709)/Homer	1e-9	-2.074e+01	0.0000	1406.0	15.46%	5482.8	13.28%	motif file (matrix)	svg	
20		Brachyury(T-box)/Mesoendoderm-Brachyury-ChIP-exo(GSE54963)/Homer	1e-8	-1.979e+01	0.0000	728.0	8.01%	2662.0	6.45%	motif file (matrix)	svg	
21		TRPS1(Zf)/MCF7-TRPS1-ChIP-Seq(GSE107013)/Homer	1e-8	-1.913e+01	0.0000	4909.0	53.99%	21050.2	50.98%	motif file (matrix)	svg	
22		TEAD3(TEA)/HepG2-TEAD3-ChIP-Seq(Encode)/Homer	1e-7	-1.764e+01	0.0000	2880.0	31.67%	11991.1	29.04%	motif file (matrix)	svg	
23		GATA:SCL(Zf,bHLH)/Ter119-SCL-ChIP-Seq(GSE18720)/Homer	1e-6	-1.589e+01	0.0000	353.0	3.88%	1207.3	2.92%	motif file (matrix)	svg	
24		Meis1(Homeobox)/MastCells-Meis1-ChIP-Seq(GSE48085)/Homer	1e-6	-1.452e+01	0.0000	3600.0	39.59%	15318.9	37.10%	motif file (matrix)	svg	
25		Zfp809(Zf)/ES-Zfp809-ChIP-Seq(GSE70799)/Homer	1e-5	-1.315e+01	0.0000	492.0	5.41%	1809.5	4.38%	motif file (matrix)	svg	
26		SF1(NR)/H295R-Nr5a1-ChIP-Seq(GSE44220)/Homer	1e-5	-1.239e+01	0.0001	1039.0	11.43%	4126.3	9.99%	motif file (matrix)	svg	
27		Nur77(NR)/K562-NR4A1-ChIP-Seq(GSE31363)/Homer	1e-4	-1.129e+01	0.0002	528.0	5.81%	1993.4	4.83%	motif file (matrix)	svg	
28		Pbx3(Homeobox)/GM12878-PBX3-ChIP-Seq(GSE32465)/Homer	1e-4	-1.124e+01	0.0002	581.0	6.39%	2215.2	5.36%	motif file (matrix)	svg	
29		ZNF322(Zf)/HEK293-ZNF322.GFP-ChIP-Seq(GSE58341)/Homer	1e-4	-1.025e+01	0.0005	666.0	7.32%	2595.8	6.29%	motif file (matrix)	svg	
30		PBX2(Homeobox)/K562-PBX2-ChIP-Seq(Encode)/Homer	1e-4	-1.011e+01	0.0006	2234.0	24.57%	9421.1	22.81%	motif file (matrix)	svg	
31		CArG(MADS)/PUER-Srf-ChIP-Seq(Sullivan_et_al.)/Homer	1e-4	-9.770e+00	0.0008	812.0	8.93%	3228.7	7.82%	motif file (matrix)	svg	
32		Nr5a2(NR)/Pancreas-LRH1-ChIP-Seq(GSE34295)/Homer	1e-4	-9.377e+00	0.0011	1605.0	17.65%	6680.1	16.18%	motif file (matrix)	svg	
33		Foxo3(Forkhead)/U2OS-Foxo3-ChIP-Seq(E-MTAB-2701)/Homer	1e-4	-9.352e+00	0.0011	1980.0	21.77%	8331.8	20.18%	motif file (matrix)	svg	
34		Rfx6(HTH)/Min6b1-Rfx6.HA-ChIP-Seq(GSE62844)/Homer	1e-3	-8.857e+00	0.0018	2314.0	25.45%	9832.6	23.81%	motif file (matrix)	svg	
35		VDR(NR),DR3/GM10855-VDR+vitD-ChIP-Seq(GSE22484)/Homer	1e-3	-8.621e+00	0.0022	490.0	5.39%	1892.2	4.58%	motif file (matrix)	svg	
36		Nr5a2(NR)/mES-Nr5a2-ChIP-Seq(GSE19019)/Homer	1e-3	-8.216e+00	0.0032	1180.0	12.98%	4867.1	11.79%	motif file (matrix)	svg	
37		Hoxa10(Homeobox)/ChickenMSG-Hoxa10.Flag-ChIP-	1e-3	-8.031e+00	0.0038	1703.0	18.73%	7167.4	17.36%	motif file	svg	

		Seq(GSE86088)/Homer									(matrix)	
38		Pitx1:Ebobox(Homeobox,bHLH)/Hindlimb-Pitx1-ChIP-Seq(GSE41591)/Homer	1e-3	-8.022e+00	0.0038	619.0	6.81%	2453.6	5.94%	motif file (matrix)	svg	
39		Tbox:Smad(T-box,MAD)/ESCd5-Smad2_3-ChIP-Seq(GSE29422)/Homer	1e-3	-7.984e+00	0.0038	426.0	4.68%	1638.9	3.97%	motif file (matrix)	svg	
40		Tbx21(T-box)/GM12878-TBX21-ChIP-Seq(Encode)/Homer	1e-3	-7.359e+00	0.0068	2510.0	27.60%	10780.1	26.11%	motif file (matrix)	svg	
41		LEF1(HMG)/H1-LEF1-ChIP-Seq(GSE64758)/Homer	1e-3	-7.295e+00	0.0071	1802.0	19.82%	7638.5	18.50%	motif file (matrix)	svg	
42		Brn2(POU,Homeobox)/NPC-Brn2-ChIP-Seq(GSE35496)/Homer	1e-3	-7.271e+00	0.0071	345.0	3.79%	1315.9	3.19%	motif file (matrix)	svg	
43		ERE(NR),IR3/MCF7-ERa-ChIP-Seq(Unpublished)/Homer	1e-3	-7.214e+00	0.0073	583.0	6.41%	2322.7	5.62%	motif file (matrix)	svg	
44		MafA(bZIP)/Islet-MafA-ChIP-Seq(GSE30298)/Homer	1e-3	-7.210e+00	0.0073	1771.0	19.48%	7505.0	18.17%	motif file (matrix)	svg	
45		Oct2(POU,Homeobox)/Bcell-Oct2-ChIP-Seq(GSE21512)/Homer	1e-3	-7.126e+00	0.0076	901.0	9.91%	3694.7	8.95%	motif file (matrix)	svg	
46		Six1(Homeobox)/Myoblast-Six1-ChIP-Chip(GSE20150)/Homer	1e-3	-7.103e+00	0.0077	608.0	6.69%	2432.5	5.89%	motif file (matrix)	svg	
47		Tcf7(HMG)/GM12878-TCF7-ChIP-Seq(Encode)/Homer	1e-3	-6.994e+00	0.0084	893.0	9.82%	3664.3	8.87%	motif file (matrix)	svg	
48		FOXP1(Forkhead)/H9-FOXP1-ChIP-Seq(GSE31006)/Homer	1e-2	-6.711e+00	0.0109	1129.0	12.42%	4703.6	11.39%	motif file (matrix)	svg	
49		TCFL2(HMG)/K562-TCF7L2-ChIP-Seq(GSE29196)/Homer	1e-2	-6.590e+00	0.0120	218.0	2.40%	804.0	1.95%	motif file (matrix)	svg	
50		Usf2(bHLH)/C2C12-Usf2-ChIP-Seq(GSE36030)/Homer	1e-2	-6.587e+00	0.0120	568.0	6.25%	2276.4	5.51%	motif file (matrix)	svg	
51		FoxL2(Forkhead)/Ovary-FoxL2-ChIP-Seq(GSE60858)/Homer	1e-2	-6.583e+00	0.0120	2264.0	24.90%	9726.5	23.55%	motif file (matrix)	svg	
52		Stat3(Stat)/mES-Stat3-ChIP-Seq(GSE11431)/Homer	1e-2	-6.531e+00	0.0120	1191.0	13.10%	4982.0	12.06%	motif file (matrix)	svg	
53		Smad2(MAD)/ES-SMAD2-ChIP-Seq(GSE29422)/Homer	1e-2	-6.450e+00	0.0128	3018.0	33.19%	13106.2	31.74%	motif file (matrix)	svg	
54		CLOCK(bHLH)/Liver-Clock-ChIP-Seq(GSE39860)/Homer	1e-2	-6.447e+00	0.0128	927.0	10.19%	3832.5	9.28%	motif file (matrix)	svg	
55		Oct4:Sox17(POU,Homeobox,HMG)/F9-Sox17-ChIP-Seq(GSE44553)/Homer	1e-2	-6.259e+00	0.0149	410.0	4.51%	1612.8	3.91%	motif file (matrix)	svg	
56		MYB(HTH)/ERMYB-Myb-ChIPSeq(GSE22095)/Homer	1e-2	-6.095e+00	0.0172	3611.0	39.71%	15797.4	38.26%	motif file (matrix)	svg	
57		DUX4(Homeobox)/Myoblasts-DUX4.V5-ChIP-Seq(GSE75791)/Homer	1e-2	-6.017e+00	0.0183	151.0	1.66%	540.6	1.31%	motif file	svg	

											(matrix)	
58		Pknox1(Homeobox)/ES-Prep1-ChIP-Seq(GSE63282)/Homer	1e-2	-5.984e+00	0.0186	536.0	5.89%	2157.3	5.22%	motif file (matrix)	svg	
59		MITF(bHLH)/MastCells-MITF-ChIP-Seq(GSE48085)/Homer	1e-2	-5.964e+00	0.0186	1805.0	19.85%	7720.0	18.70%	motif file (matrix)	svg	
60		Foxf1(Forkhead)/Lung-Foxf1-ChIP-Seq(GSE77951)/Homer	1e-2	-5.917e+00	0.0192	2463.0	27.09%	10653.6	25.80%	motif file (matrix)	svg	
61		bHLHE40(bHLH)/HepG2-BHLHE40-ChIP-Seq(GSE31477)/Homer	1e-2	-5.863e+00	0.0199	477.0	5.25%	1908.8	4.62%	motif file (matrix)	svg	
62		Gfi1b(Zf)/HPC7-Gfi1b-ChIP-Seq(GSE22178)/Homer	1e-2	-5.851e+00	0.0199	1585.0	17.43%	6750.2	16.35%	motif file (matrix)	svg	
63		Bel11a(Zf)/HSPC-BCL11A-ChIP-Seq(GSE104676)/Homer	1e-2	-5.842e+00	0.0199	1675.0	18.42%	7149.5	17.31%	motif file (matrix)	svg	
64		PAX5(Paired,Homeobox)/GM12878-PAX5-ChIP-Seq(GSE32465)/Homer	1e-2	-5.729e+00	0.0217	725.0	7.97%	2981.1	7.22%	motif file (matrix)	svg	
65		Cux2(Homeobox)/Liver-Cux2-ChIP-Seq(GSE35985)/Homer	1e-2	-5.652e+00	0.0231	1198.0	13.17%	5052.4	12.24%	motif file (matrix)	svg	
66		PRDM14(Zf)/H1-PRDM14-ChIP-Seq(GSE22767)/Homer	1e-2	-5.557e+00	0.0250	724.0	7.96%	2983.7	7.23%	motif file (matrix)	svg	
67		ZNF165(Zf)/WHIM12-ZNF165-ChIP-Seq(GSE65937)/Homer	1e-2	-5.548e+00	0.0250	285.0	3.13%	1102.1	2.67%	motif file (matrix)	svg	
68		ZNF317(Zf)/HEK293-ZNF317.GFP-ChIP-Seq(GSE58341)/Homer	1e-2	-5.448e+00	0.0271	222.0	2.44%	841.4	2.04%	motif file (matrix)	svg	
69		PAX3:FKHR-fusion(Paired,Homeobox)/Rh4-PAX3:FKHR-ChIP-Seq(GSE19063)/Homer	1e-2	-5.378e+00	0.0286	539.0	5.93%	2189.2	5.30%	motif file (matrix)	svg	
70		MafF(bZIP)/HepG2-MafF-ChIP-Seq(GSE31477)/Homer	1e-2	-5.351e+00	0.0290	848.0	9.33%	3531.1	8.55%	motif file (matrix)	svg	
71		HRE(HSF)/HepG2-HSF1-ChIP-Seq(GSE31477)/Homer	1e-2	-5.339e+00	0.0290	376.0	4.14%	1492.3	3.61%	motif file (matrix)	svg	
72		GATA(Zf),IR4/iTreg-Gata3-ChIP-Seq(GSE20898)/Homer	1e-2	-5.223e+00	0.0321	236.0	2.60%	904.4	2.19%	motif file (matrix)	svg	
73		Tbx6(T-box)/ESC-Tbx6-ChIP-Seq(GSE93524)/Homer	1e-2	-5.212e+00	0.0321	2591.0	28.49%	11271.6	27.30%	motif file (matrix)	svg	
74		Reverb(NR),DR2/RAW-Reverba.biotin-ChIP-Seq(GSE45914)/Homer	1e-2	-5.104e+00	0.0351	301.0	3.31%	1180.0	2.86%	motif file (matrix)	svg	
75		Pit1+1bp(Homeobox)/GCrat-Pit1-ChIP-Seq(GSE58009)/Homer	1e-2	-5.043e+00	0.0369	1128.0	12.41%	4773.6	11.56%	motif file (matrix)	svg	
76		ZNF136(Zf)/HEK293-ZNF136.GFP-ChIP-Seq(GSE58341)/Homer	1e-2	-5.036e+00	0.0369	266.0	2.93%	1034.8	2.51%	motif file (matrix)	svg	
77		Otx2(Homeobox)/EpiLC-Otx2-ChIP-	1e-2	-5.031e+00	0.0369	1944.0	21.38%	8391.9	20.32%	motif	svg	

		Seq(GSE56098)/Homer								file (matrix)	
78		Max(bHLH)/K562-Max-ChIP-Seq(GSE31477)/Homer	1e-2	-4.991e+00	0.0373	1251.0	13.76%	5318.1	12.88%	motif file (matrix)	svg
79		NF1:FOXA1(CTF,Forkhead)/LNCAP-FOXA1-ChIP-Seq(GSE27824)/Homer	1e-2	-4.978e+00	0.0373	171.0	1.88%	639.8	1.55%	motif file (matrix)	svg
80		NPAS2(bHLH)/Liver-NPAS2-ChIP-Seq(GSE39860)/Homer	1e-2	-4.668e+00	0.0502	2127.0	23.39%	9231.3	22.36%	motif file (matrix)	svg
81		THRb(NR)/HepG2-THRb.Flag-ChIP-Seq(Encode)/Homer	1e-2	-4.642e+00	0.0509	1205.0	13.25%	5133.3	12.43%	motif file (matrix)	svg
82		ZNF675(Zf)/HEK293-ZNF675.GFP-ChIP-Seq(GSE58341)/Homer	1e-2	-4.621e+00	0.0514	385.0	4.23%	1551.6	3.76%	motif file (matrix)	svg

Homer *de novo* Motif Results (Strong_novel_embryonic_heart_enhancers/)

[Known Motif Enrichment Results](#)

[Gene Ontology Enrichment Results](#)

If Homer is having trouble matching a motif to a known motif, try copy/pasting the matrix file into [STAMP](#)

More information on motif finding results: [HOMER](#) | [Description of Results](#) | [Tips](#)

Total target sequences = 9094

Total background sequences = 41303

* - possible false positive

Rank	Motif	P-value	log P-value	% of Targets	% of Background	STD(Bg STD)	Best Match/Details	Motif File
1		1e-68	-1.570e+02	8.53%	4.32%	584.9bp (211.6bp)	Mef2d(MADS)/Retina-Mef2d-ChIP-Seq(GSE61391)/Homer(0.968) More Information Similar Motifs Found	motif file (matrix)
2		1e-44	-1.020e+02	27.41%	21.19%	558.1bp (213.3bp)	PB0022.1_Gata5_1/Jaspar(0.945) More Information Similar Motifs Found	motif file (matrix)
3		1e-26	-6.163e+01	18.00%	13.93%	542.1bp (218.2bp)	Tbx20(T-box)/Heart-Tbx20-ChIP-Seq(GSE29636)/Homer(0.921) More Information Similar Motifs Found	motif file (matrix)
4		1e-22	-5.259e+01	22.74%	18.58%	540.7bp (221.4bp)	Tlx?(NR)/NPC-H3K4me1-ChIP-Seq(GSE16256)/Homer(0.774) More Information Similar Motifs Found	motif file (matrix)
5		1e-20	-4.834e+01	0.68%	0.15%	409.5bp (217.5bp)	Tcf21(bHLH)/ArterySmoothMuscle-Tcf21-ChIP-Seq(GSE61369)/Homer(0.577) More Information Similar Motifs Found	motif file (matrix)
6		1e-20	-4.820e+01	14.37%	11.12%	529.2bp (218.9bp)	SMAD2::SMAD3::SMAD4/MA0513.1/Jaspar(0.757) More Information Similar Motifs Found	motif file (matrix)
7		1e-20	-4.680e+01	11.73%	8.83%	588.8bp (220.3bp)	Tbox:Smad(T-box,MAD)/ESCd5-Smad2_3-ChIP-Seq(GSE29422)/Homer(0.666) More Information Similar Motifs Found	motif file (matrix)
8		1e-19	-4.567e+01	8.04%	5.67%	623.6bp (211.7bp)	Nkx2-5(var.2)/MA0503.1/Jaspar(0.762) More Information Similar Motifs Found	motif file (matrix)
9		1e-19	-4.557e+01	0.27%	0.02%	368.3bp (212.1bp)	PH0098.1_Lhx8/Jaspar(0.688) More Information Similar Motifs Found	motif file (matrix)
10		1e-18	-4.309e+01	5.63%	3.72%	504.3bp (210.0bp)	ONECUT1/MA0679.1/Jaspar(0.608) More Information Similar Motifs Found	motif file (matrix)
11		1e-18	-4.273e+01	7.69%	5.44%	602.2bp (210.5bp)	mix-a/MA0621.1/Jaspar(0.661) More Information Similar Motifs Found	motif file (matrix)
12		1e-18	-4.244e+01	0.14%	0.00%	207.4bp (0.0bp)	ZNF768(Zf)/Rajj-ZNF768-ChIP-Seq(GSE111879)/Homer(0.583) More Information Similar Motifs Found	motif file (matrix)
13		1e-18	-4.242e+01	13.19%	10.25%	548.3bp (215.0bp)	Esrrb(NR)/mES-Esrrb-ChIP-Seq(GSE11431)/Homer(0.977) More Information Similar Motifs Found	motif file (matrix)
14		1e-18	-4.171e+01	10.99%	8.32%	605.2bp (210.7bp)	Arid3b/MA0601.1/Jaspar(0.788) More Information Similar Motifs Found	motif file (matrix)
15		1e-17	-4.062e+01	0.16%	0.01%	380.3bp (66.6bp)	STAT3/MA0144.2/Jaspar(0.550) More Information Similar Motifs Found	motif file (matrix)
16		1e-16	-3.872e+01	23.17%	19.58%	528.8bp (218.9bp)	TEAD3/MA0808.1/Jaspar(0.773) More Information Similar Motifs Found	motif file (matrix)
17		1e-16	-3.836e+01	0.13%	0.00%	275.8bp (6.5bp)	TBX15/MA0803.1/Jaspar(0.627) More Information Similar Motifs Found	motif file (matrix)
18		1e-16	-3.836e+01	0.13%	0.00%	288.9bp (0.0bp)	GSC(Homeobox)/FrogEmbryos-GSC-ChIP-Seq(DRA000576)/Homer(0.599) More Information Similar Motifs Found	motif file (matrix)
19		1e-16	-3.836e+01	0.13%	0.00%	915.6bp (0.0bp)	Hoxa10(Homeobox)/ChickenMSG-Hoxa10.Flag-ChIP-Seq(GSE86088)/Homer(0.621) More Information Similar Motifs Found	motif file (matrix)
20		1e-15	-3.636e+01	17.00%	13.95%	537.9bp (220.2bp)	Reverb(NR),DR2/RAW-Reverba.biotin-ChIP-Seq(GSE45914)/Homer(0.654) More Information Similar Motifs Found	motif file (matrix)
21		1e-15	-3.572e+01	0.20%	0.01%	461.0bp (180.7bp)	STAT3/MA0144.2/Jaspar(0.804) More Information Similar Motifs Found	motif file (matrix)

22		1e-15	-3.503e+01	0.85%	0.29%	550.6bp (204.1bp)	Tgif2(Homeobox)/mES-Tgif2-ChIP-Seq(GSE55404)/Homer(0.606) More Information Similar Motifs Found	motif file (matrix)
23		1e-14	-3.363e+01	0.14%	0.01%	561.9bp (100.4bp)	PB0063.1_Sox13_1/Jaspar(0.574) More Information Similar Motifs Found	motif file (matrix)
24		1e-13	-3.103e+01	3.38%	2.14%	531.3bp (216.3bp)	PH0085.1_Irx4/Jaspar(0.637) More Information Similar Motifs Found	motif file (matrix)
25		1e-13	-3.044e+01	0.11%	0.00%	301.6bp (39.3bp)	SD0003.1_at_AC_acceptor/Jaspar(0.630) More Information Similar Motifs Found	motif file (matrix)
26		1e-13	-3.044e+01	0.11%	0.00%	457.6bp (0.0bp)	PB0155.1_Osr2_2/Jaspar(0.607) More Information Similar Motifs Found	motif file (matrix)
27		1e-13	-3.024e+01	0.13%	0.01%	473.0bp (195.3bp)	MYNN(Zf)/HEK293-MYNN.eGFP-ChIP-Seq(Encode)/Homer(0.621) More Information Similar Motifs Found	motif file (matrix)
28		1e-13	-3.024e+01	0.13%	0.01%	375.0bp (30.6bp)	Nkx2-5(var.2)/MA0503.1/Jaspar(0.662) More Information Similar Motifs Found	motif file (matrix)
29		1e-12	-2.856e+01	0.14%	0.01%	252.3bp (79.5bp)	ZNF382(Zf)/HEK293-ZNF382.GFP-ChIP-Seq(GSE58341)/Homer(0.622) More Information Similar Motifs Found	motif file (matrix)
30		1e-12	-2.775e+01	6.83%	5.12%	545.8bp (213.6bp)	NKX2-8/MA0673.1/Jaspar(0.880) More Information Similar Motifs Found	motif file (matrix)
31 *		1e-11	-2.697e+01	0.29%	0.05%	520.4bp (182.7bp)	TFAP4/MA0691.1/Jaspar(0.787) More Information Similar Motifs Found	motif file (matrix)
32 *		1e-11	-2.697e+01	0.29%	0.05%	365.8bp (209.3bp)	PH0126.1_Obox6/Jaspar(0.636) More Information Similar Motifs Found	motif file (matrix)
33 *		1e-11	-2.693e+01	0.12%	0.01%	368.0bp (217.0bp)	POU3F1/MA0786.1/Jaspar(0.614) More Information Similar Motifs Found	motif file (matrix)
34 *		1e-11	-2.693e+01	0.12%	0.01%	267.1bp (278.9bp)	LIN54/MA0619.1/Jaspar(0.588) More Information Similar Motifs Found	motif file (matrix)
35 *		1e-11	-2.666e+01	0.24%	0.04%	308.4bp (167.0bp)	PB0118.1_Esrra_2/Jaspar(0.603) More Information Similar Motifs Found	motif file (matrix)
36 *		1e-11	-2.662e+01	0.10%	0.00%	473.2bp (0.0bp)	Smad2(MAD)/ES-SMAD2-ChIP-Seq(GSE29422)/Homer(0.690) More Information Similar Motifs Found	motif file (matrix)
37 *		1e-11	-2.558e+01	0.13%	0.01%	292.3bp (52.7bp)	PB0025.1_Glis2_1/Jaspar(0.666) More Information Similar Motifs Found	motif file (matrix)
38 *		1e-10	-2.479e+01	15.04%	12.67%	548.3bp (211.5bp)	LIN54/MA0619.1/Jaspar(0.707) More Information Similar Motifs Found	motif file (matrix)
39 *		1e-10	-2.456e+01	0.93%	0.42%	620.9bp (206.0bp)	PB0096.1_Zfp187_1/Jaspar(0.695) More Information Similar Motifs Found	motif file (matrix)
40 *		1e-10	-2.401e+01	0.53%	0.17%	710.4bp (190.9bp)	TEAD4/MA0809.1/Jaspar(0.709) More Information Similar Motifs Found	motif file (matrix)
41 *		1e-10	-2.371e+01	0.11%	0.01%	258.8bp (1.6bp)	SCL(bHLH)/HPC7-Scl-ChIP-Seq(GSE13511)/Homer(0.610) More Information Similar Motifs Found	motif file (matrix)
42 *		1e-9	-2.253e+01	0.15%	0.02%	323.7bp (183.4bp)	SIX2/MA1119.1/Jaspar(0.692) More Information Similar Motifs Found	motif file (matrix)
43 *		1e-8	-2.058e+01	0.10%	0.01%	270.0bp (216.4bp)	PB0169.1_Sox15_2/Jaspar(0.690) More Information Similar Motifs Found	motif file (matrix)
44 *		1e-8	-2.058e+01	0.10%	0.01%	457.8bp (137.8bp)	ZNF354C/MA0130.1/Jaspar(0.616) More Information Similar Motifs Found	motif file (matrix)
45 *		1e-8	-2.058e+01	0.10%	0.01%	103.4bp (160.1bp)	PH0084.1_Irx3_2/Jaspar(0.587) More Information Similar Motifs Found	motif file (matrix)
46 *		1e-8	-2.058e+01	0.10%	0.01%	438.7bp (105.4bp)	Tbox:Smad(T-box,MAD)/ESCd5-Smad2_3-ChIP-Seq(GSE29422)/Homer(0.696) More Information Similar Motifs Found	motif file (matrix)

47 *		1e-8	-2.058e+01	0.10%	0.01%	341.5bp (243.6bp)	SPDEF(ETS)/VCaP-SPDEF-ChIP-Seq(SRA014231)/Homer(0.666) More Information Similar Motifs Found	motif file (matrix)
48 *		1e-8	-1.950e+01	0.22%	0.04%	333.5bp (198.7bp)	Sox3/MA0514.1/Jaspar(0.648) More Information Similar Motifs Found	motif file (matrix)
49 *		1e-8	-1.931e+01	0.08%	0.00%	233.2bp (9.7bp)	Smad4/MA1153.1/Jaspar(0.661) More Information Similar Motifs Found	motif file (matrix)
50 *		1e-7	-1.839e+01	1.99%	1.28%	508.3bp (199.3bp)	PB0091.1_Zbtb3_1/Jaspar(0.706) More Information Similar Motifs Found	motif file (matrix)
51 *		1e-7	-1.756e+01	0.09%	0.01%	224.6bp (125.3bp)	PH0078.1_Hoxd13/Jaspar(0.622) More Information Similar Motifs Found	motif file (matrix)
52 *		1e-7	-1.729e+01	0.73%	0.34%	413.8bp (191.1bp)	SD0003.1_at_AC_acceptor/Jaspar(0.708) More Information Similar Motifs Found	motif file (matrix)
53 *		1e-6	-1.474e+01	0.10%	0.01%	416.1bp (147.5bp)	PB0201.1_Zfp281_2/Jaspar(0.670) More Information Similar Motifs Found	motif file (matrix)
54 *		1e-6	-1.465e+01	0.08%	0.01%	540.9bp (187.7bp)	PB0178.1_Sox8_2/Jaspar(0.756) More Information Similar Motifs Found	motif file (matrix)
55 *		1e-6	-1.465e+01	0.08%	0.01%	318.8bp (222.9bp)	PB0143.1_Klf7_2/Jaspar(0.649) More Information Similar Motifs Found	motif file (matrix)
56 *		1e-6	-1.465e+01	0.08%	0.01%	238.8bp (0.0bp)	ZFX(Zf)/mES-Zfx-ChIP-Seq(GSE11431)/Homer(0.720) More Information Similar Motifs Found	motif file (matrix)
57 *		1e-6	-1.451e+01	0.09%	0.01%	457.8bp (125.9bp)	JUN::JUNB(var.2)/MA1133.1/Jaspar(0.654) More Information Similar Motifs Found	motif file (matrix)
58 *		1e-6	-1.451e+01	0.09%	0.01%	343.7bp (51.3bp)	PB0148.1_Mtf1_2/Jaspar(0.665) More Information Similar Motifs Found	motif file (matrix)
59 *		1e-4	-1.043e+01	15.48%	14.00%	570.6bp (211.1bp)	ONECUT3/MA0757.1/Jaspar(0.685) More Information Similar Motifs Found	motif file (matrix)