

Table 5. Homer Known motif enrichment results (ISL1 ChIP-seq peaks)

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
1		Isl1 (Homeobox)/Neuron-Isl1-ChIP-Seq (GSE31456)/Homer	1e-138	-3.198e+02	0.0000	762.0	54.35%	10772.2	23.18%
2		Nkx6.1 (Homeobox)/Islet-Nkx6.1-ChIP-Seq (GSE40975)/Homer	1e-73	-1.686e+02	0.0000	810.0	57.77%	15794.2	33.99%
3		Nkx2.5 (Homeobox)/HL1-Nkx2.5 biotin-ChIP-Seq (GSE21529)/Homer	1e-67	-1.548e+02	0.0000	571.0	40.73%	9434.8	20.30%
4		Nanog (Homeobox)/mES-Nanog-ChIP-Seq (GSE11724)/Homer	1e-66	-1.539e+02	0.0000	945.0	67.40%	20627.6	44.39%
5		Pdx1 (Homeobox)/Islet-Pdx1-ChIP-Seq (SRA008281)/Homer	1e-66	-1.520e+02	0.0000	386.0	27.53%	5048.0	10.86%
6		FOXA1 (Forkhead)/LNCaP-FOXA1-ChIP-Seq (GSE27824)/Homer	1e-64	-1.476e+02	0.0000	450.0	32.10%	6599.5	14.20%
7		Nkx3.1 (Homeobox)/LNCaP-Nkx3.1-ChIP-Seq (GSE28264)/Homer	1e-57	-1.335e+02	0.0000	588.0	41.94%	10482.3	22.56%
8		FOXA1 (Forkhead)/MCF7-FOXA1-ChIP-Seq (GSE26831)/Homer	1e-57	-1.331e+02	0.0000	384.0	27.39%	5387.4	11.59%
9		Nkx2.1 (Homeobox)/LungAC-Nkx2.1-ChIP-Seq (GSE43252)/Homer	1e-57	-1.316e+02	0.0000	639.0	45.58%	11953.0	25.72%
10		Hoxb4 (Homeobox)/ES-Hoxb4-ChIP-Seq (GSE34014)/Homer	1e-47	-1.091e+02	0.0000	134.0	9.56%	945.3	2.03%
11		TEAD4 (TEA)/Tropoblast-Tea4-ChIP-Seq (GSE37350)/Homer	1e-43	-1.004e+02	0.0000	251.0	17.90%	3155.7	6.79%
12		FOXP1 (Forkhead)/H9-FOXP1-ChIP-Seq (GSE31006)/Homer	1e-40	-9.297e+01	0.0000	194.0	13.84%	2150.2	4.63%
13		Lhx3 (Homeobox)/Neuron-Lhx3-ChIP-Seq (GSE31456)/Homer	1e-39	-9.173e+01	0.0000	522.0	37.23%	10038.0	21.60%
14		TEAD (TEA)/Fibroblast-PU.1-ChIP-Seq (Unpublished)/Homer	1e-39	-9.034e+01	0.0000	232.0	16.55%	2953.9	6.36%
15		HOXA2 (Homeobox)/mES-Hoxa2-ChIP-Seq (Donaldson et al.)/Homer	1e-38	-8.804e+01	0.0000	85.0	6.06%	458.8	0.99%
16		Foxo1 (Forkhead)/RAW-Foxo1-ChIP-Seq (Fan et al.)/Homer	1e-35	-8.211e+01	0.0000	454.0	32.38%	8532.2	18.36%
17		NF1 (CTF)/LNCaP-NF1-ChIP-Seq (Unpublished)/Homer	1e-33	-7.680e+01	0.0000	111.0	7.92%	914.0	1.97%
18		Hoxc9 (Homeobox)/Ain15-Hoxc9-ChIP-Seq (GSE21812)/Homer	1e-32	-7.454e+01	0.0000	201.0	14.34%	2619.6	5.64%
19		HOXA9 (Homeobox)/HSC-Hoxa9-ChIP-Seq (GSE33509)/Homer	1e-31	-7.268e+01	0.0000	240.0	17.12%	3506.4	7.55%
20		TEAD2 (TEA)/Py2T-Tea2-ChIP-Seq (GSE55709)/Homer	1e-27	-6.387e+01	0.0000	159.0	11.34%	1966.9	4.23%
21		TATA-Box (TBP)/Promoter/Homer	1e-27	-6.349e+01	0.0000	374.0	26.68%	7080.6	15.24%
22		Foxa2 (Forkhead)/Liver-Foxa2-ChIP-Seq (GSE25694)/Homer	1e-27	-6.309e+01	0.0000	251.0	17.90%	4008.0	8.63%
23		FoxEbox (Forkhead_bHLH)/Panc1-Foxa2-ChIP-Seq (GSE47459)/Homer	1e-26	-5.991e+01	0.0000	276.0	19.69%	4704.7	10.12%
24		Meis1 (Homeobox)/MastCells-Meis1-ChIP-Seq (GSE48085)/Homer	1e-25	-5.764e+01	0.0000	351.0	25.04%	6694.2	14.41%
25		Gata4 (Zf)/Heart-Gata4-ChIP-Seq (GSE35151)/Homer	1e-18	-4.285e+01	0.0000	265.0	18.90%	5023.0	10.81%