

Table S8: Motif analysis non-mammal species

GSE46958_Au.fasta				
Motif	E-value	Sites	Factorbook match	Type
TCTTCTTCTTCYTCT	3.7e-062	3262 (48.9%)	CTCF	C2H2
AAAAAAAAAAAAA	1.4e-028	2827 (42.4%)	ZNF362	C2H2
GAGAGAGAGAGAG	5.6e-021	1314 (19.7%)	ZNF596	C2H2
WAGGCCCAWT	2.8e-019	1101 (16.5%)	ZFX	C2H2
ACGACGTCGT	1.4e-017	782 (11.7%)	BACH2	
AAAACCTAAD	2.9e-013	1092 (16.4%)	ZFP3	C2H2
GAAGAAGAGA	5.5e-012	2474 (37.1%)	AFF1	
TATATATATATATAA	6.1e-012	1295 (19.4%)	ZNF140	C2H2
TAATTAGTA	9.7e-012	2949 (44.2%)	MTA2	
TAATTAADTAA	3.2e-010	836 (12.5%)	ZNF140	C2H2
AAGAAAGAAAMARA	3.1e-009	1464 (22.0%)	PKNOX1	
AACCAAACCAA	7.8e-009	1329 (19.9%)	STAT2	
AGCCCAWTAA	6.3e-008	456 (6.8%)	ZNF585B	C2H2
GCAACAACAACAM	2.4e-007	586 (8.8%)	FOXP1	
AAGCCAWA	7.8e-007	844 (12.7%)	ZNF449	C2H2
CACACACACACACA	3.6e-006	329 (4.9%)	ZNF148	C2H2
GRTGATGATGA	1.7e-005	1689 (25.3%)	ATF7	
CGGCGGAG	2.4e-005	794 (11.9%)	NRF1	
AAATCGAATTAT	3.6e-005	963 (14.4%)	ESRRG	
TGMCACGTGKCA	5.7e-005	393 (5.9%)	MAZ	C2H2
AGGAAAAAAAAAA	8.1e-005	788 (11.8%)	ZNF362	C2H2
ATCBRACGGT	1.9e-004	253 (3.8%)	OVOL1	C2H2
ACYAAACMM	3.4e-004	2128 (31.9%)	KLF4	C2H2
AACAAAATAATAAA	4.5e-004	301 (4.5%)	ZNF510	C2H2
AAAGGTCAAAG	6.4e-004	146 (2.2%)	NR2F6	
AAAATTAATTAATAA	7.5e-004	1657 (24.9%)	HMGA2	
ASTAGC	1.6e-003	2097 (31.5%)	OSR2	C2H2
CAATGGCGG	6.9e-003	481 (7.2%)	ZHX1	C2H2
ACTTTGAATCCACWT	8.3e-003	91 (1.4%)	ARID4A	
CATAGTTTCA	8.3e-003	125 (1.9%)	EP300	
TATATA	9.2e-003	2182 (32.7%)	OTX2	

CCTAATCCCT	9.9e-003	207 (3.1%)	OTX2	
GGCCCAW	1.5e-002	583 (8.7%)	ZBED4	
ACGCAAACGY	1.7e-002	80 (1.2%)	RELA	C2H2
CCGGTTCAA	2.0e-002	228 (3.4%)	ZNF707	C2H2
AAATAAACCGAAT	3.5e-002	102 (1.5%)	ZSCAN29	C2H2
ASAGAGAAGA	4.4e-002	852 (12.8%)	ZNF775	C2H2
TATATATAC	5.5e-002	836 (12.5%)	SREBF1	
TCACCGGAGM	5.6e-002	248 (3.7%)	SREBF1	
ACAAGTAAAAC	6.8e-002	56 (0.8%)	ETV6	
ATATATTTTGGW	7.6e-002	336 (5.0%)	CTCF	C2H2
AATAATAATATA	1.0e-001	1273 (19.1%)	ZNF394	C2H2
CGRCGACT	1.2e-001	268 (4.0%)	FOS	
ATCATCAW	1.3e-001	1054 (15.8%)	ZNF513	C2H2
GGAGGAGAAA	1.4e-001	115 (1.7%)	NFXL1	
GTTATCTTACCAW	1.4e-001	59 (0.9%)	ZNF639	C2H2
ATCCGTAATC	1.4e-001	72 (1.1%)	OTX2	
ATTTTTAATTTCG	1.4e-001	56 (0.8%)	CTCF	C2H2
ACCAAAA	1.6e-001	2360 (35.4%)	IKZF2	C2H2
ATCAATCA	1.6e-001	1501 (22.5%)	TSHZ2	C2H2
TGTCAACTAA	1.6e-001	126 (1.9%)	EZH2phosphoT487	
CSGACCCGTTTA	1.7e-001	177 (2.7%)	ZNF692	
GTGACTTTTTTCAR	2.4e-001	76 (1.1%)	JUND	
TCTTTCTATCA	2.4e-001	66 (1.0%)	ZNF512	C2H2
ATCACTAR	2.5e-001	380 (5.7%)	CUX1	
ACAAAACAA	2.6e-001	1161 (17.4%)	ZNF384	C2H2
AAATCCTAAACTYT	2.8e-001	106 (1.6%)	ZFP3	C2H2
GTAAAAAGTTAAAAC	2.8e-001	80 (1.2%)	HNF1A	
CCATCTCCACTCC	2.8e-001	61 (0.9%)	FOS	
GATAATGAAAC	2.8e-001	59 (0.9%)	STAT2	
TTAAAAATTTAAAAC	2.8e-001	44 (0.7%)	GTF3C2	
ACAAACAAAAAAA	3.0e-001	169 (2.5%)	CEBPB	
AATTTGCA	3.9e-001	402 (6.0%)	POU2F2	
MRCTGMAAC	4.1e-001	975 (14.6%)	EP300	
AGACTYGAGWGS	4.5e-001	192 (2.9%)	KMT2B	
CTAGTTAGCCCC	5.1e-001	67 (1.0%)	SP2	C2H2

ACRCCAAAAGAC	5.5e-001	72 (1.1%)	EP300	
TCTGAAATCTGAATC	5.5e-001	36 (0.5%)	SIX4	
AAATAGTAAA	6.2e-001	487 (7.3%)	ZNF704	
AGTCAAC	7.5e-001	508 (7.6%)	FOS	
CACTGAGTC	8.3e-001	90 (1.4%)	TBL1XR1	
CCAACGCC	8.3e-001	85 (1.3%)	NR5A2	
GATYCTAMTTGRATG	1.1e+000	75 (1.1%)	FOSL2	
GACTCGAGCM	1.1e+000	71 (1.1%)	ATF3	
GGCCYACACA	1.1e+000	64 (1.0%)	HES1	
AATAAACAAAAWWTG	1.1e+000	58 (0.9%)	ZNF19	C2H2
KCCGGAGAAGAY	1.1e+000	62 (0.9%)		
TCCTTGCTGAA	1.1e+000	52 (0.8%)	ZNF121	C2H2
ATAGACTAAATATCT	1.1e+000	49 (0.7%)	DZIP1	
AGTGACAAC	1.1e+000	106 (1.6%)	TBX2	
AAAACCTCGGT	1.1e+000	53 (0.8%)	ZNF766	C2H2
CTATATGTGTARYTT	1.1e+000	53 (0.8%)	ZNF302	C2H2
ACATGAATGAATW	1.1e+000	73 (1.1%)	ZNF24	C2H2
CTGGTYCGATTCWWA	1.1e+000	49 (0.7%)	ATF3	
ATGATTTAGAAA	1.1e+000	51 (0.8%)	NFE2L2	
AGTCRCA	1.1e+000	725 (10.9%)	PAX5	
AATTAGTTAAC	1.3e+000	211 (3.2%)	ZNF660	C2H2
TAATTA	1.3e+000	1602 (24.0%)	MTA2	
AGTGGTGGTRG	1.5e+000	143 (2.1%)	NFATC3	
CGGATCGGCC	1.1e-002	1.5e+000	CEBPB	
AAACCCTTGKAGT	1.5e+000	65 (1.0%)	ZNF652	C2H2
AGCGCGTGR	1.6e+000	185 (2.8%)	KDM5B	
ACAAAAACAAAG	1.6e+000	157 (2.4%)	FOXP1	
ACAAAAATAAAAA	1.8e+000	205 (3.1%)	PKNOX1	
ACACGTGT	1.8e+000	168 (2.5%)	MXI1	
GGGGAAAATA	2.1e+000	434 (6.5%)	ZNF639	C2H2
AAATCAAATCA	2.1e+000	470 (7.1%)	RAD21	
CCKACCCGAA	2.2e+000	64 (1.0%)	ZNF580	C2H2
AAAGAGAATCAACCAv	2.2e+000	62 (0.9%)	ZNF772	C2H2
GAAGRCTATTGAD	2.2e+000	66 (1.0%)	ZNF146	C2H2
CAGCACAAGGAGAGG	2.2e+000	53 (0.8%)	ZNF548	C2H2

AGCTTTTGTAAAAGT	2.2e+000	51 (0.8%)		
ACTCTAATAACAATA	2.2e+000	50 (0.8%)	GTF3C2	
CCTAAAGAACAAAT	2.2e+000	46 (0.7%)	CTCF	C2H2
CTTATAGACCA	2.2e+000	44 (0.7%)	TCF12	
AATTTAAGAAAAC	2.2e+000	43 (0.6%)		
ACAAAAAACGTGTA	2.2e+000	43 (0.6%)	ZNF441	C2H2
ATGGACCCTGWRG	2.2e+000	43 (0.6%)	ZNF335	C2H2
ATAACTCTCTCTACK	2.2e+000	40 (0.6%)	ZBTB40	C2H2
AATCGCTCTC	2.2e+000	47 (0.7%)	ZNF596	C2H2
ACCGGTTAATG	2.2e+000	39 (0.6%)	HNF1A	
GCAAAACCCMGSAAA	2.2e+000	39 (0.6%)	ZFP3	C2H2
GAGAATTTAAACATA	2.2e+000	43 (0.6%)	ZNF280A	C2H2
TTCACCTGCAAAA	2.2e+000	37 (0.6%)	RCOR2	
AACTTTATAAA	2.5e+000	155 (2.3%)	ZBTB40	C2H2
GAAACTAGAA	2.7e+000	87 (1.3%)	ZNF143	C2H2
ATAAGTAAAAG	2.8e+000	130 (2.0%)	ZNF19	C2H2
ATTTGTGTCCAR	2.8e+000	95 (1.4%)		
ATATGAACAATTTGA	2.8e+000	71 (1.1%)	ZNF324	C2H2
GAAAAATGGGAA	2.8e+000	44 (0.7%)	HDAC2	
CCACGTCAAY	3.2e+000	330 (5.0%)	XBP1	
GAAGAAAACAAAAA	3.5e+000	620 (9.3%)	foxj2	
CTCCTCCAC	3.7e+000	235 (3.5%)	ZNF263	C2H2
ATTATCCCA	4.1e+000	104 (1.6%)	KDM1A	
ACCGTWACGGT	4.5e+000	69 (1.0%)	OVOL1	C2H2
AAACAAGTGATGS	4.5e+000	59 (0.9%)	ZNF184	C2H2
AGTTTCTTCAATCTA	4.5e+000	55 (0.8%)	ZNF558	C2H2
AAACCTCAAAAA	4.5e+000	58 (0.9%)	MLLT1	
AAATGTAAAACGTW	4.5e+000	47 (0.7%)	ZNF354B	C2H2
CCATTTCCCAT	4.5e+000	48 (0.7%)	ZMYM3	
ATCAAAGATGGA	4.5e+000	37 (0.6%)	ZNF740	C2H2
CTATAACCAG	4.5e+000	44 (0.7%)	ZBTB12	C2H2
AACTCACTTCAATTT	4.5e+000	30 (0.5%)	ZNF583	C2H2
AAATAAAATGAAG	4.7e+000	70 (1.1%)	HMGA2	
AAAATGTAAATA	4.7e+000	97 (1.5%)	ZNF507	C2H2
CCATGGAAGA	4.7e+000	135 (2.0%)	ZNF8	C2H2

TAATAAAATAAAATA	5.0e+000	85 (1.3%)	HMGA2	
CATAGAAAATTAAGA	5.0e+000	61 (0.9%)	ZNF146	C2H2
AGAAGCCTTG	5.0e+000	55 (0.8%)	RAD21	
AGATTGAGAGAA	5.0e+000	43 (0.6%)	CTCF	C2H2
ATCTACAAA	6.6e+000	285 (4.3%)		
AATTATGAAT	6.6e+000	99 (1.5%)	ZNF292	C2H2
AAATATTCCCAA	9.0e+000	67 (1.0%)	ZNF558	C2H2
GTTAKTGGTAATTTM	9.0e+000	48 (0.7%)	ZNF416	C2H2
AAAGGGTAAAA	1.5e+001	201 (3.0%)	CTCF	C2H2

GSE32521_AuNP				
Motif	E-value	Factorbook	TYPE	Sites
GAAAAATTGAAA	2.2e+000	CTCF	C2H2	35 (49.3%)
CTGAAACS	2.3e+000	EP300		38 (53.5%)
GGGGGGGRGGRGGAA	3.0e+000	HNRNPK		25 (35.2%)

GSE70509_AgNO3			
Motif	Factorbook	TYPE	Sites
AATTTAAAA	MXI1		16 (100.0%)
AGAAAAAAAAATCA	ZNF362		12 (75.0%)
AAATYGACRWG	IRF3		13 (81.3%)
GACCGA	NR2F2		15 (93.8%)
TATTCAA	HBP1		16 (100.0%)

GSE70509_AgNP			
Motif	Factorbook	TYPE	Sites
AACTAATTWAA	TCF4		11 (84.6%)
AATMAATGA	ZNF24	C2H2	10 (76.9%)
AACAAAAAAAAAY	ZNF362	C2H2	11 (84.6%)
AAGTTGA	ZNF416	C2H2	13 (100.0%)
AATAHATAAATTT	ZNF19	C2H2	9 (69.2%)

GSE70509_priAgNp			
Motif	Factorbook	TYPE	Sites
AATAAAATT	BNC2	C2H2	13 (86.7%)
RAAACTTTA	ZBTB40	C2H2	14 (93.3.0%)
AAAAWATGAAGMAH	IKZF1	C2H2	12 (80.0%)
AAATTGATRAK	CUX1		13 (86.7%)
ACATACTG	EP300		11 (73.3%)

NERC_AgNO3			
Motif	Factorbook	TYPE	Sites
AAAACCTGAAT	ZBTB40	C2H2	5 (100.0%)
AAACATATTTTGA	EP300		5 (100.0%)
AATGGAAAATTG	NFATC1		5 (100.0%)

CGAAAAAAAAA	ZNF384	C2H2	5 (100.0%)
TTTGTCRGMHAAC	ZNF791	C2H2	4 (80.0%)

NERC_AUT12			
Motif	Factorbook	TYPE	Sites
CTCCRCYW	ZNF263	C2H2	21 (65.6%)
AATTCAGAA	CEBPB		17 (53.1%)
AGTATAAAA	MTA3		19 (59.4%)
ACARTTTA	ZNF660	C2H2	20 (62.5%)
ATCTGCAAAAT	GATA3		14 (43.8%)

NERC_MUA12			
Motif	Factorbook	TYPE	Sites
CTTCC	EZH2phosphoT487		15 (100.0%)
TAWAATTGAWAADGT	JUND		12 (80.0%)
ATCAAAACT	PHF8		13 (86.7%)
AAATTAACYSM	ZNF416	C2H2	10 (66.7%)
CTTATCAA	JUN		10 (66.7%)

NERC_PVP12			
Motif	Factorbook	TYPE	Sites
ATTTATTGAAT	ZNF19	C2H2	12 (100.0%)
YAATTTAAAY	MYBL2		12 (100.0%)
AAAATGWCTA			12 (100.0%)
ATTGAACCA	FOXP1		10 (83.3%)
AATCTGAAA	JUND		9 (75.0%)

NERC_PVP52			
Motif	Factorbook	TYPE	Sites
AAGAAGAAGTGT	SPI1		14 (82.4%)
AATAATTCAAAAT	HMGA2		12 (70.6%)
AWAATGATVA	CUX1		12 (70.6%)
TCTGGRAAAAAA	ZNF416	C2H2	12 (70.6%)
TTGMKCAA	EP300		12 (70.6%)

GSE41333_G3				
Motif	E-value	Sites	Factorbook	Type
AAATAAATAAAC	1.0e-002	217 (33.2%)	ZNF138	C2H2
ATTATTATTATTAT	3.0e-002	114 (17.5%)	ZNF354B	C2H2
CYCKCCCHC	5.4e-002	142 (21.7%)	ZNF148	C2H2
ACACACACACACACA	1.9e-001	188 (28.8%)	ZNF148	C2H2
CCAATCAGAGS	3.1e-001	108 (16.5%)	SP4	C2H2
CTGCAG	3.6e-001	394 (60.3%)	CTCF	C2H2
AATGAACCRCCA	4.0e-001	56 (8.6%)	ZNF416	C2H2
GACTAAGCYRA	4.0e-001	62 (9.5%)	BACH1	
ACCAATCACT	5.3e-001	84 (12.9%)	USF1	
CTTCATC	6.6e-001	246 (37.7%)	ZNF513	C2H2
AAATGAATGAAWRAA	6.7e-001	86 (13.2%)	ZNF24	C2H2
GTGACGTCAB	8.9e-001	113 (17.3%)	ZHX1	C2H2
AAAAMAAAAAMAA	7.0e+000	76 (11.6%)	ZNF362	C2H2
TMAACATTTA	1.1e+001	69 (10.6%)	ZNF507	C2H2

GSE41333_G4				
Motif	E-value	Sites	Factorbook	Type
ACACACACACACAC	6.1e-011	541 (17.6%)	ZNF148	C2H2
CYCKCCCMCY	1.2e-007	910 (29.7%)	ZNF148	C2H2
AAATAAATAAA	1.4e-006	748 (24.4%)	ZNF138	C2H2
ATAATAATAATAAT	1.9e-004	273 (8.9%)	ZNF354B	C2H2
WDTAGSCTAHW	8.4e-004	373 (12.2%)	CTCF	C2H2
AATAAAACAAA	9.3e-004	473 (15.4%)	HMGA2	
CTACAGTA	2.5e-003	888 (29.0%)	CTCF	C2H2
RTATATATATATATA	2.8e-003	217 (7.1%)	ZNF426	C2H2
AATGTAAT	4.2e-003	835 (27.2%)	ZNF507	C2H2
CCAATCAGAGB	9.7e-003	218 (7.1%)	SP4	C2H2
AAAAAAAAAAAAAAC	4.8e-002	526 (17.2%)	ZNF362	C2H2
AGAGAGAGAGAGAG	4.9e-002	277 (9.0%)	ZNF596	C2H2
ACAGCGGAATGAACC	8.8e-002	147 (4.8%)	CTCF	C2H2
AAWCAAACCA	9.5e-002	1983 (64.7%)	NR3C1	
GGCGACCCC	1.8e-001	138 (4.5%)	ZXDB	C2H2
CAACCCAKCWCTGGG	1.8e-001	99 (3.2%)	ZNF707	C2H2
AACATGCAAACCTCA	1.8e-001	84 (2.7%)	NFATC3	
ACAGAAATGCCA	1.8e-001	59 (1.9%)	ZFP37	C2H2
CTGCAG	2.2e-001	542 (17.7%)	CTCF	C2H2
AAGGGATAGTTC	2.6e-001	91 (3.0%)	PRDM1	C2H2
ACATTTCTAA	3.6e-001	56 (1.8%)	ZFP37	C2H2
ATGAWGACA	4.0e-001	718 (23.4%)	NR3C1	
CTCCATCCM	4.8e-001	165 (5.4%)	YBX1	
GAGGAAACCS	5.1e-001	100 (3.3%)	ZNF510	C2H2
AAATAAA	5.5e-001	1525 (49.7%)	CTCF	C2H2
GAAGAAA	6.4e-001	479 (15.6%)	ARNT	
AGCGCGCGCGC	7.3e-001	234 (7.6%)	ZBTB26	C2H2
CCTTCTTGCTGTGA	7.3e-001	70 (2.3%)	CTBP1	
GCATGTCTTTGGACT	7.3e-001	69 (2.2%)	AFF1	

ACCTAGTTGARAC	7.3e-001	31 (1.0%)	ZNF416	C2H2
ACAACAACAACAR	7.9e-001	182 (5.9%)	FOXP1	
CTTCATC	8.6e-001	582 (19.0%)	ZNF513	C2H2
CCAAGTTATCCAGC	9.0e-001	125 (4.1%)	ZNF639	C2H2
CTGAAGGAM	9.6e-001	1111 (36.2%)	CTCF	C2H2
AAACAAACAA	1.2e+000	532 (17.3%)	FEZF1	C2H2
AATACATTTAAT	1.3e+000	187 (6.1%)	ZNF507	C2H2
GCAGCAGYAG	1.4e+000	266 (8.7%)	POLR2A	
ATGTTTWCAGAG	1.5e+000	82 (2.7%)	ZNF416	C2H2
ATGATGATGRTG	1.5e+000	66 (2.2%)	ATF7	
CAATTCACCTRACC	1.5e+000	58 (1.9%)	ZEB1	
CAGAATTATTAGCCC	1.5e+000	60 (2.0%)	ZNF766	C2H2
AGGGACTAAGCCG	1.6e+000	128 (4.2%)	ZSCAN21	C2H2
ATGCCCTTCCAGC	1.6e+000	113 (3.7%)	ZNF548	C2H2
ATTAATAA	1.9e+000	434 (14.2%)	ZNF140	C2H2
ACGTCACCT	2.1e+000	754 (24.6%)	CREM	
RTAGGCCTAY	3.0e+000	52 (1.7%)	ZFY	C2H2
AGAGCAGAGG	3.4e+000	121 (3.9%)	TCF7L2	
CATTTAAAATRA	4.8e+000	161 (5.2%)	ZNF507	C2H2

GSE50718_Ag50				
Motif	E-value	Sites	Factorbook	Type
AATAAATRAATAA	2.3e-004	392 (28.8%)	ZNF394	C2H2
AAACAAAC	6.2e-004	484 (35.6%)	NR3C1	
AAATACATTTT	1.6e-003	128 (9.4%)	ZBTB40	C2H2
GGAGGAGGAGG	1.8e-003	370 (27.2%)	NFXL1	
GAATGAACCRCCAAC	1.5e-002	65 (4.8%)	ZNF416	C2H2
AGAGAGAGAGAGAGA	3.1e-002	67 (4.9%)	ZNF596	C2H2
TCCAGCYGCA	3.1e-002	42 (3.1%)	SAP30	
AAATGTA	4.3e-002	447 (32.9%)	ZNF507	C2H2
GTAGCCTAT	1.1e-001	155 (11.4%)	IRF3	
CACACACACACACAC	1.3e-001	231 (17.0%)	ZNF776	C2H2
CARCCAATCA	2.1e-001	158 (11.6%)	E2F6	
ACTGGGAAAC	2.7e-001	26 (1.9%)	RBPJ	
AATGAAG	5.4e-001	779 (57.3%)	ZNF24	C2H2
CTGTGGCGACCCC	5.6e-001	63 (4.6%)	CTCF	C2H2
AGTTTGCATGTTCTC	5.6e-001	49 (3.6%)	HNF4A	
CAGCATATGTTTTAC	5.6e-001	33 (2.4%)	EP300	
CCAAGTACCCAGCC	5.6e-001	32 (2.4%)	ZNF639	C2H2
CCAGCGACC	6.6e-001	167 (12.3%)	ZSCAN30	C2H2
GTATATATATATATA	6.8e-001	117 (8.6%)	ZNF426	C2H2
KTACWGTAM	9.1e-001	257 (18.9%)	CHD7	
GAAGAWG	9.6e-001	636 (46.8%)	ZNF513	C2H2
CATTTTC	9.6e-001	719 (52.9%)	EP300	
AAAGGGAYAGTTCA	1.1e+000	79 (5.8%)	GATA2	
AGGGCATCYGC	1.1e+000	50 (3.7%)	CTCF	C2H2
AATAAAGGGACTAAG	1.1e+000	60 (4.4%)	ZNF264	C2H2
TGGACTGTGGGGGAA	1.1e+000	44 (3.2%)	NR3C1	

CCGCCC	1.2e+000	383 (28.2%)	HMG3	
AATAAATA	1.2e+000	665 (48.9%)	ZNF140	C2H2
ATTATTATTATTA	1.3e+000	110 (8.1%)	ZNF354B	C2H2
GAGGAAACCCA	1.3e+000	41 (3.0%)	ZNF565	C2H2
AAAAAAAAAAAAAAMA	1.3e+000	161 (11.8%)	ZNF384	C2H2
CTGCAGA	1.3e+000	708 (52.1%)	CTCF	C2H2
CGCSCRCKCG	1.5e+000	217 (16.0%)	ZBTB26	C2H2
GATGAC	1.8e+000	555 (40.8%)	FOS	
CWGCWG	1.8e+000	267 (19.6%)	RAD21	
AATAAARTAAT	6.4e+000	516 (37.9%)	ZNF19	C2H2
GCCTCACAGCAAGAA	9.5e+000	44 (3.2%)	CTBP1	
AAAGTAAACA	3.0e+001	136 (10.0%)	OSR2	C2H2

GSE50718_Ag150				
Motif	E-value	Sites	Factorbook	Type
TGAATGAA	2.4e-003	269 (37.9%)	ZNF24	C2H2
TACWGTA	1.5e-002	135 (19.0%)	CHD7	
AATAAATAAATA	1.3e-001	116 (16.3%)	ZNF394	C2H2
CYCCTCCYH	2.5e-001	167 (23.5%)	ZNF263	C2H2
AATAAA	4.7e-001	630 (88.7%)	ARNT	
AGTCAAAGACA	5.5e-001	38 (5.4%)	HNF4G	
GTTGCAGCTGGA	5.5e-001	32 (4.5%)	ZNF146	
ATCCGCTGYGTAAAA	5.5e-001	40 (5.6%)	SMAD3	
AGTTGGTGG	6.0e-001	171 (24.1%)	POLR2A	
ATGCAA	7.1e-001	152 (21.4%)	RELA	
ACACACACACACA	7.4e-001	118 (16.6%)	ZNF148	C2H2
GCGACCCCTG	9.2e-001	74 (10.4%)	TRIM22	
AACAAACCAA	9.2e-001	97 (13.7%)	ZNF548	C2H2
GGAGGAAACS	9.2e-001	86 (12.1%)	JUN	
TAGSCTA	9.2e-001	91 (12.8%)	CTCF	C2H2
TCGAACCARCVAC	2.3e+000	52 (7.3%)	GTF3C2	
GATGATGAKG	4.5e+000	155 (21.8%)	ZNF513	C2H2
ATATATATATATAT	4.7e+000	53 (7.5%)	ZNF426	C2H2

GSE50718_AgNO3				
Motif	E-value	Sites	Factorbook	Type
CACACACACACACA	2.3e-005	353 (14.7%)	ZNF148	C2H2
CCCCCCCCMC	1.8e-004	601 (25.0%)	ZNF148	C2H2
AAAAAAAAAAAAAAMA	8.5e-004	213 (8.9%)	ZNF362	C2H2
AAATGAATRAA	2.8e-003	470 (19.5%)	ZNF138	C2H2
KTAGCCTACHT	7.3e-003	215 (8.9%)	ZNF770	C2H2
STGATTGGYT	1.3e-002	267 (11.1%)	E2F6	
AAATGTA	1.6e-002	882 (36.7%)	ZNF507	C2H2
CAAGAAGGTCGCTGG	4.5e-002	69 (2.9%)	MAX	
AAATGCA	7.2e-002	621 (25.8%)	RAD21	
GAACCGCCAAC	7.9e-002	125 (5.2%)		
CAAACAAC	1.3e-001	550 (22.9%)	OVOL3	
ACAWACAWACAWAMW	1.7e-001	165 (6.9%)	ZNF148	C2H2

ATATATATATATATA	1.8e-001	174 (7.2%)	ZNF426	C2H2
CTGTGGCGACCCC	1.8e-001	115 (4.8%)	CTCF	C2H2
CCACTGMGCCACC	1.8e-001	76 (3.2%)	TBL1XR1	
GAGGAAACCCAMGC	1.8e-001	84 (3.5%)	KDM1A	
GGAGGA	2.7e-001	403 (16.7%)	ZNF263	C2H2
ATAATAATAA	3.2e-001	238 (9.9%)	ZNF518A	C2H2
AAGGGATAGTTCAC	3.6e-001	70 (2.9%)	GATA2	
AGGGACTAAGCCGAA	3.6e-001	108 (4.5%)	ZSCAN21	C2H2
GAGAACATGCAAAC	3.6e-001	68 (2.8%)	HNF4A	
RCGTCACGTGAS	5.2e-001	167 (6.9%)	GTF2F1	
CAGCAG	7.1e-001	832 (34.6%)	RAD21	
ATGATGACAGAAT	7.1e-001	51 (2.1%)	JUN	
AAGGGCATCYGCTG	7.1e-001	89 (3.7%)	ZNF134	C2H2
GGCTAATAATTCTGA	7.1e-001	52 (2.2%)	ZNF766	C2H2
CTTTAAGAGCCACC	7.1e-001	35 (1.5%)	ZNF350	C2H2
CTCTCTCTCTCTC	9.0e-001	92 (3.8%)	ZNF596	C2H2
AAATAAATA	1.0e+000	503 (20.9%)	ZNF140	C2H2
CTKMAG	1.2e+000	733 (30.5%)	CTCF	C2H2
GATGATGA	1.2e+000	272 (11.3%)	ZNF513	C2H2
YGCGCATGCGCR	1.4e+000	51 (2.1%)	ZNF639	C2H2
AATTCACCTGTAC	1.4e+000	37 (1.5%)	ZEB1	C2H2
ATGGGTTGCRGCTGG	1.4e+000	85 (3.5%)	SRF	
CATGTCTTTGGAC	1.6e+000	64 (2.7%)	AFF1	
ATAATAATAATAATA	1.6e+000	141 (5.9%)	ZNF354B	C2H2
AATAAAATAAA	1.6e+000	322 (13.4%)	HMGA2	
TAACGTTA	2.1e+000	81 (3.4%)	HOXA3	
AATAAAAGC	2.1e+000	91 (3.8%)	NR2F2	
AGGAAG	2.2e+000	699 (29.1%)	NR2F2	
ACWACAACAA	2.2e+000	199 (8.3%)	FOXP1	
AAAAGAAAAA	2.2e+000	135 (5.6%)	CEBPB	
CAGCATATGTTTTAY	2.8e+000	59 (2.5%)	EP300	
AATAAAGTGCCCRGT	2.8e+000	37 (1.5%)	EP300	
ACATTTCTAAACAT	5.7e+000	38 (1.6%)		

GSE50718_PVP				
Motif	E-value	Sites	Factorbook	Type
TACWGTA	9.2e-002	92 (26.9%)	CHD7	
CCAATCA	9.2e-002	57 (16.7%)	RFX5	
AATAATAATWTAA	1.2e-001	113 (33.0%)	ZNF394	c2h2
GCWGCAGGW	1.2e-001	108 (31.6%)	CTCF	c2h2
CATCAT	1.9e-001	310 (90.6%)	TRIM24	
CTAAACTG	2.7e-001	141 (41.2%)	PRDM4	c2h2
AATAAATRAATAAAW	3.7e-001	82 (24.0%)	ZNF302	c2h2
CTCCTCCTC	3.7e-001	34 (9.9%)	NFXL1	
GAGAGAGARAGAGA	3.7e-001	23 (6.7%)	ZNF596	c2h2
AGGAAG	4.3e-001	95 (27.8%)	NR2F2	
AGTGTGTGTGTG	5.8e-001	71 (20.8%)	ZNF319	c2h2
AAACAAACAA	3.0e+000	72 (21.1%)	FEZF1	c2h2

CTCCGGTTTCCCC	3.4e+000	32 (9.4%)	ZNF37A	c2h2
CCGCCACK	4.7e+000	78 (22.8%)	EGR1	c2h2

GSE61186_AgNO3				
Motif	E-value	Sites	Factorbook	Type
CACACACACACACA	2.3e-005	353 (14.7%)	ZNF148	C2H2
CCCCKCCCMC	1.8e-004	601 (25.0%)	ZNF148	C2H2
AAAAAAAAAAAAAMAA	8.5e-004	213 (8.9%)	ZNF362	C2H2
AAATGAATRAA	2.8e-003	470 (19.5%)	ZNF138	C2H2
KTAGCCTACHT	7.3e-003	215 (8.9%)	ZNF770	C2H2
STGATTGGYT	1.3e-002	267 (11.1%)	E2F6	
AAATGTA	1.6e-002	882 (36.7%)	ZNF507	C2H2
CAAGAAGGTCGCTGG	4.5e-002	69 (2.9%)	MAX	
AAATGCA	7.2e-002	621 (25.8%)	RAD21	
GAACCGCCAAC	7.9e-002	125 (5.2%)		
CAAACAAC	1.3e-001	550 (22.9%)	OVOL3	
ACAWACAWACAWAMW	1.7e-001	165 (6.9%)	ZNF148	C2H2
ATATATATATATATA	1.8e-001	174 (7.2%)	ZNF426	C2H2
CTGTGGCGACCCC	1.8e-001	115 (4.8%)	CTCF	C2H2
CCACTGMGCCACC	1.8e-001	76 (3.2%)	TBL1XR1	
GAGGAAACCCAMGC	1.8e-001	84 (3.5%)	KDM1A	
GGAGGA	2.7e-001	403 (16.7%)	ZNF263	C2H2
ATAATAATAA	3.2e-001	238 (9.9%)	ZNF518A	C2H2
AAGGGATAGTTCAC	3.6e-001	70 (2.9%)	GATA2	
AGGGACTAAGCCGAA	3.6e-001	108 (4.5%)	ZSCAN21	C2H2
GAGAACATGCAAAC	3.6e-001	68 (2.8%)	HNF4A	
RCGTCACGTGAS	5.2e-001	167 (6.9%)	GTF2F1	
CAGCAG	7.1e-001	832 (34.6%)	RAD21	
ATGATGACAGAAT	7.1e-001	51 (2.1%)	JUN	
AAGGGCATCYGCTG	7.1e-001	89 (3.7%)	ZNF134	C2H2
GGCTAATAATTCTGA	7.1e-001	52 (2.2%)	ZNF766	C2H2
CTTTAAGAGCCACC	7.1e-001	35 (1.5%)	ZNF350	C2H2
CTCTCTCTCTCTC	9.0e-001	92 (3.8%)	ZNF596	C2H2
AAATAATA	1.0e+000	503 (20.9%)	ZNF140	C2H2
CTKMAG	1.2e+000	733 (30.5%)	CTCF	c2h2
GATGATGA	1.2e+000	272 (11.3%)	ZNF513	c2h2
YGCATGCGCR	1.4e+000	51 (2.1%)	ZNF639	c2h2
AATCACCTGTAC	1.4e+000	37 (1.5%)	ZEB1	c2h2
ATGGGTTGCRGCTGG	1.4e+000	85 (3.5%)	SRF	
CATGTCTTTGGAC	1.6e+000	64 (2.7%)	AFF1	
ATAATAATAATAATA	1.6e+000	141 (5.9%)	ZNF354B	c2h2
AATAAAATAAA	1.6e+000	322 (13.4%)	HMGA2	
TAACGTTA	2.1e+000	81 (3.4%)	HOXA3	
AATAAAAGC	2.1e+000	91 (3.8%)		
AGGAAG	2.2e+000	699 (29.1%)	NR2F2	
ACWACAACAA	2.2e+000	199 (8.3%)	FOXP1	
AAAAGAAAAAAAAAA	2.2e+000	135 (5.6%)	CEBPB	
CAGCATATGTTTTAY	2.8e+000	59 (2.5%)	EP300	

AATAAAGTGGCCRG 2.8e+000 37 (1.5%) EP300
 ACATTTCTAACAT 5.7e+000 38 (1.6%)

GSE61186_AgNP				
Motif	E-value	Sites	Factorbook	Type
CATTTCTGW	1.1e-001	101 (21.7%)	FOXA1	
CCTCGTC	1.1e-001	148 (31.8%)	ZNF263	c2h2
ACACACACACACACA	2.0e-001	97 (20.9%)	ZNF148	C2H2
AATRAATRAATR	2.4e-001	97 (20.9%)	ZNF19	C2H2
AGAGAGAGARAGRG	4.1e-001	50 (10.8%)	ZNF596	C2H2
CCAAYCM	1.6e+000	170 (36.6%)	RFX5	
AAAAWAAAAAAAAAA	2.4e+000	115 (24.7%)	ZNF362	C2H2

GSE73427_BAP				
Motif	E-value	Sites	Factorbook	Type
AATCAAGC	1.4e-001	45 (15.5%)	SMARCA4	
AAAAAAAAAAAAATA	1.0e+000	67 (23.1%)	ZNF384	C2H2
ACACACACACACR	2.0e+000	54 (18.6%)	ZNF148	C2H2
AAATAATGA	3.2e+000	96 (33.1%)	ZNF140	C2H2

GSE73427_SiNPBAP				
Motif	E-value	Sites	Factorbook	Type
CCCTCCCC	2.9e-002	111 (20.5%)	ZNF444	C2H2
AAATGAATGAAT	3.9e-002	56 (10.3%)	ZNF24	C2H2
CACACACACACAC	1.7e+000	77 (14.2%)	ZNF148	C2H2
CACTTCCA	2.5e+000	111 (20.5%)	YY1	C2H2
AAAHAAATAAWAAA	4.1e+000	116 (21.4%)	ZNF34	C2H2

GSE73427_SiNP				
Motif	E-value	Sites	Factorbook	Type
CACACACACATAY	1.4e-001	59 (16.5%)	ZNF776	C2H2
AAATGAA	1.7e-001	198 (55.5%)	JUNB	
AAAATAATGA	2.2e-001	121 (33.9%)	ZNF24	C2H2
CTCBTCC	2.5e-001	229 (64.1%)	ZNF263	C2H2
AAACATTTA	3.4e-001	122 (34.2%)	EP300	
ACTACAGCA	4.6e-001	111 (31.1%)	CTCF	C2H2
CAAAAAAAAAAAAA	4.6e-001	65 (18.2%)	ZNF362	C2H2
GATGAA	5.1e-001	294 (82.4%)	YEATS4	
WDTAGSCTAHW	1.9e+000	54 (15.1%)	CTCF	C2H2
TAAAGTAAT	3.4e+000	50 (14.0%)	CTCF	C2H2
CTTGTTGATGT	3.7e+000	61 (17.1%)	FOXP1	