

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.271 C 0.229 G 0.229 T 0.271

MOTIF A-Box width = 21 sites = 116 llr = 1480 E-value = 5.4e-213

BL MOTIF A-Box width=21 seqs=116

log-odds matrix: alength= 4 w= 21 n= 36080 bayes= 10.2502 E= 5.4e-213

-97	-27	-373	128
120	-215	-156	-11
128	-9	-215	-180
-1350	211	-1350	-497
-127	171	-127	-265
160	-156	-115	-1350
-1350	188	-1350	-80
-1350	-1350	-315	185
35	-83	115	-397
67	31	7	-265
24	-1350	157	-1350
-1350	212	-1350	-1350
-397	115	-473	78
189	-1350	-1350	-1350
-151	97	-173	52
-7	85	12	-180
-65	55	85	-180
28	35	12	-107
-51	-15	112	-139
-65	99	62	-397
-239	177	-193	-139

letter-probability matrix: alength= 4 w= 21 nsites= 116 E= 5.4e-213

0.137931	0.189655	0.017241	0.655172
0.620690	0.051724	0.077586	0.250000
0.655172	0.215517	0.051724	0.077586
0.000000	0.991379	0.000000	0.008621
0.112069	0.750000	0.094828	0.043103
0.818966	0.077586	0.103448	0.000000
0.000000	0.844828	0.000000	0.155172
0.000000	0.000000	0.025862	0.974138
0.344828	0.129310	0.508621	0.017241
0.431034	0.284483	0.241379	0.043103
0.318966	0.000000	0.681034	0.000000
0.000000	1.000000	0.000000	0.000000
0.017241	0.508621	0.008621	0.465517
1.000000	0.000000	0.000000	0.000000
0.094828	0.448276	0.068966	0.387931
0.258621	0.413793	0.250000	0.077586
0.172414	0.336207	0.413793	0.077586
0.327586	0.293103	0.250000	0.129310
0.189655	0.206897	0.500000	0.103448
0.172414	0.456897	0.353448	0.017241
0.051724	0.784483	0.060345	0.103448

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.260 C 0.240 G 0.240 T 0.260

MOTIF AP1 width = 14 sites = 475 llr = 4487 E-value = 3.1e-778

BL MOTIF AP1 width=14 seqs=475

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 7.77719 E= 3.1e-778

37	-53	5	-6
-11	19	80	-190
58	-46	30	-86
-42	-7	80	-72
20	-175	91	-54
34	13	64	-295
-1554	-1554	-1554	194
-1554	-1554	205	-495
194	-1554	-1554	-1554
-219	45	127	-286
-536	-1554	-1554	194
-249	199	-1554	-1554
194	-1554	-1554	-1554
-495	31	-26	93

letter-probability matrix: alength= 4 w= 14 nsites= 475 E= 3.1e-778

0.336842	0.166316	0.248421	0.248421
0.240000	0.273684	0.416842	0.069474
0.387368	0.174737	0.294737	0.143158
0.193684	0.229474	0.418947	0.157895
0.298947	0.071579	0.450526	0.178947
0.328421	0.263158	0.374737	0.033684
0.000000	0.000000	0.000000	1.000000
0.000000	0.000000	0.991579	0.008421
1.000000	0.000000	0.000000	0.000000
0.056842	0.328421	0.578947	0.035789
0.006316	0.000000	0.000000	0.993684
0.046316	0.953684	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.008421	0.296842	0.200000	0.494737

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.204 C 0.296 G 0.296 T 0.204

MOTIF AP2 width = 15 sites = 491 llr = 3871 E-value = 7.0e-490

BL MOTIF AP2 width=15 seqs=491

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.43602 E= 7.0e-490

-35	24	-39	36
12	39	-29	-46
42	20	-123	35
55	-7	-22	-31
-2	-348	-209	178
-50	-145	111	-89
-433	102	30	-306
-1558	176	-1558	-1558
-1558	160	-1558	-95
-274	18	-197	145
-129	57	49	-174
176	-372	-4	-1558
-365	-1558	173	-1558
-1558	-1558	176	-1558
-506	111	17	-306

letter-probability matrix: alength= 4 w= 15 nsites= 491 E= 7.0e-490

0.160896	0.350305	0.226069	0.262729
0.221996	0.386965	0.242363	0.148676
0.272912	0.340122	0.126273	0.260692
0.299389	0.281059	0.254582	0.164969
0.201629	0.026477	0.069246	0.702648
0.144603	0.107943	0.637475	0.109980
0.010183	0.600815	0.364562	0.024440
0.000000	1.000000	0.000000	0.000000
0.000000	0.894094	0.000000	0.105906
0.030550	0.336049	0.075356	0.558045
0.083503	0.439919	0.415479	0.061100
0.690428	0.022403	0.287169	0.000000
0.016293	0.000000	0.983707	0.000000
0.000000	0.000000	1.000000	0.000000
0.006110	0.637475	0.331976	0.024440

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.260 C 0.240 G 0.240 T 0.260

MOTIF BARHL2 width = 11 sites = 92 llr = 807 E-value = 6.8e-010

BL MOTIF BARHL2 width=11 seqs=92

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 10.4932 E= 6.8e-010

-158	-88	6	104
-1317	85	74	-67
-1317	74	-1317	120
-1317	-1317	-1317	195
128	-1317	62	-1317
195	-1317	-1317	-1317
-1317	-1317	23	147
-457	-1317	49	133
-177	-1317	194	-1317
-1317	146	29	-258
-1317	18	-1317	149

letter-probability matrix: alength= 4 w= 11 nsites= 92 E= 6.8e-010

0.086957	0.130435	0.250000	0.532609
0.000000	0.434783	0.402174	0.163043
0.000000	0.402174	0.000000	0.597826
0.000000	0.000000	0.000000	1.000000
0.630435	0.000000	0.369565	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.000000	0.282609	0.717391
0.010870	0.000000	0.336957	0.652174
0.076087	0.000000	0.923913	0.000000
0.000000	0.663043	0.293478	0.043478
0.000000	0.271739	0.000000	0.728261

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.226 C 0.274 G 0.274 T 0.226

MOTIF B-Box width = 16 sites = 404 llr = 5093 E-value = 5.9e-1137

BL MOTIF B-Box width=16 seqs=404

log-odds matrix: alength= 4 w= 16 n= 42500 bayes= 8.6382 E= 5.9e-1137

-130	-124	112	-19
-138	-679	171	-419
-551	-1530	186	-1530
127	-362	-33	-7
-19	26	-333	98
-1530	-521	-479	212
-1530	156	-1530	-23
-493	-1530	186	-1530
215	-1530	-1530	-1530
208	-679	-1530	-234
-651	186	-1530	-1530
-351	142	-521	9
-99	130	-166	-87
20	-62	80	-142
-293	61	57	-63
-26	-347	147	-293

letter-probability matrix: alength= 4 w= 16 nsites= 404 E= 5.9e-1137

0.091584	0.116337	0.594059	0.198020
0.086634	0.002475	0.898515	0.012376
0.004950	0.000000	0.995050	0.000000
0.544554	0.022277	0.217822	0.215347
0.198020	0.329208	0.027228	0.445545
0.000000	0.007426	0.009901	0.982673
0.000000	0.806931	0.000000	0.193069
0.007426	0.000000	0.992574	0.000000
1.000000	0.000000	0.000000	0.000000
0.952970	0.002475	0.000000	0.044554
0.002475	0.997525	0.000000	0.000000
0.019802	0.732673	0.007426	0.240099
0.113861	0.675743	0.086634	0.123762
0.259901	0.178218	0.477723	0.084158
0.029703	0.418317	0.405941	0.146040
0.188119	0.024752	0.757426	0.029703

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.205 C 0.295 G 0.295 T 0.205

MOTIF BHLHE40 width = 10 sites = 481 llr = 3700 E-value = 6.6e-438

BL MOTIF BHLHE40 width=10 seqs=481

log-odds matrix: alength= 4 w= 10 n= 45500 bayes= 7.23038 E= 6.6e-438

-8	-556	87	36
-87	159	-1555	-1555
229	-1555	-1555	-1555
-1555	168	-306	-362
-187	-515	166	-1555
-158	-334	-269	207
-1555	-1555	176	-1555
137	32	-187	-316
-39	98	-61	-162
-39	13	-38	53

letter-probability matrix: alength= 4 w= 10 nsites= 481 E= 6.6e-438

0.193347	0.006237	0.538462	0.261954
0.112266	0.887734	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.948025	0.035343	0.016632
0.056133	0.008316	0.935551	0.000000
0.068607	0.029106	0.045738	0.856549
0.000000	0.000000	1.000000	0.000000
0.528067	0.367983	0.081081	0.022869
0.155925	0.584200	0.193347	0.066528
0.155925	0.322245	0.226611	0.295218

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.242 C 0.258 G 0.258 T 0.242

MOTIF CEBPB width = 14 sites = 498 llr = 4536 E-value = 3.5e-784

BL MOTIF CEBPB width=14 seqs=498

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 7.7438 E= 3.5e-784

-110	-48	39	60
101	-76	47	-591
-1560	-1560	-1560	205
-1560	-600	-1560	204
-459	-1560	186	-227
-1560	195	-1560	-1560
99	-276	64	-163
-87	84	-1560	75
143	43	-1560	-1560
205	-1560	-1560	-1560
-333	59	-84	87
27	64	-158	-13
-39	50	-32	1
-23	39	-58	23

letter-probability matrix: alength= 4 w= 14 nsites= 498 E= 3.5e-784

0.112450	0.184739	0.337349	0.365462
0.485944	0.152610	0.357430	0.004016
0.000000	0.000000	0.000000	1.000000
0.000000	0.004016	0.000000	0.995984
0.010040	0.000000	0.939759	0.050201
0.000000	1.000000	0.000000	0.000000
0.479920	0.038153	0.403614	0.078313
0.132530	0.461847	0.000000	0.405622
0.652610	0.347390	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.024096	0.389558	0.144578	0.441767
0.291165	0.401606	0.086345	0.220884
0.184739	0.365462	0.206827	0.242972
0.206827	0.337349	0.172691	0.283133

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.172 C 0.328 G 0.328 T 0.172

MOTIF CREB width = 11 sites = 110 llr = 1038 E-value = 1.9e-057

BL MOTIF CREB width=11 seqs=110

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 9.26152 E= 1.9e-057

125	-100	-4	-66
-1343	-236	-171	228
-1343	-259	-22	195
-7	-1343	119	-92
-1343	161	-1343	-1343
76	-259	100	-1343
-1343	-517	-1343	252
-324	158	-1343	-1343
254	-1343	-1343	-1343
-1343	15	-159	161
-78	83	-185	40

letter-probability matrix: alength= 4 w= 11 nsites= 110 E= 1.9e-057

0.409091	0.163636	0.318182	0.109091
0.000000	0.063636	0.100000	0.836364
0.000000	0.054545	0.281818	0.663636
0.163636	0.000000	0.745455	0.090909
0.000000	1.000000	0.000000	0.000000
0.290909	0.054545	0.654545	0.000000
0.000000	0.009091	0.000000	0.990909
0.018182	0.981818	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.363636	0.109091	0.527273
0.100000	0.581818	0.090909	0.227273



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Background letter frequencies (from dataset with add-one prior applied):  
A 0.170 C 0.330 G 0.330 T 0.170

MOTIF CREB-ext width = 18 sites = 84 llr = 915 E-value = 8.6e-066

BL MOTIF CREB-ext width=18 seqs=84

log-odds matrix: alength= 4 w= 18 n= 41500 bayes= 9.251 E= 8.6e-066

-1304	153	-379	-283
-125	-1304	149	-1304
-283	-147	-1304	234
-13	127	-1304	-183
241	-1304	-479	-103
-151	-79	-162	192
34	67	-279	34
145	-79	-71	-25
-13	-27	45	-51
-3	-4	-27	49
-37	21	53	-383
25	25	-71	25
-1304	-1304	155	-225
-383	158	-1304	-1304
-383	-1304	158	-1304
49	104	-1304	-103
-283	145	-247	-383
-37	-89	93	-151

letter-probability matrix: alength= 4 w= 18 nsites= 84 E= 8.6e-066

0.000000	0.952381	0.023810	0.023810
0.071429	0.000000	0.928571	0.000000
0.023810	0.119048	0.000000	0.857143
0.154762	0.797619	0.000000	0.047619
0.904762	0.000000	0.011905	0.083333
0.059524	0.190476	0.107143	0.642857
0.214286	0.523810	0.047619	0.214286
0.464286	0.190476	0.202381	0.142857
0.154762	0.273810	0.452381	0.119048
0.166667	0.321429	0.273810	0.238095
0.130952	0.380952	0.476190	0.011905
0.202381	0.392857	0.202381	0.202381
0.000000	0.000000	0.964286	0.035714
0.011905	0.988095	0.000000	0.000000
0.011905	0.000000	0.988095	0.000000
0.238095	0.678571	0.000000	0.083333
0.023810	0.904762	0.059524	0.011905
0.130952	0.178571	0.630952	0.059524

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.179 C 0.321 G 0.321 T 0.179

MOTIF CTCF width = 15 sites = 500 llr = 4685 E-value = 1.5e-835

BL MOTIF CTCF width=15 seqs=500

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 6.40939 E= 1.5e-835

-173	-2	82	-153
-289	101	-374	78
-139	-294	130	-87
-209	130	-237	-75
-1561	163	-1561	-489
55	105	-280	-278
-548	94	-732	107
-1561	163	-732	-1561
-248	-233	-533	233
58	-184	81	-116
-316	10	95	-348
-116	-73	-287	193
-416	-732	160	-389
-278	-228	139	-139
-50	89	-212	21

letter-probability matrix: alength= 4 w= 15 nsites= 500 E= 1.5e-835

0.054000	0.318000	0.566000	0.062000
0.024000	0.646000	0.024000	0.306000
0.068000	0.042000	0.792000	0.098000
0.042000	0.790000	0.062000	0.106000
0.000000	0.994000	0.000000	0.006000
0.262000	0.666000	0.046000	0.026000
0.004000	0.618000	0.002000	0.376000
0.000000	0.998000	0.002000	0.000000
0.032000	0.064000	0.008000	0.896000
0.266000	0.090000	0.564000	0.080000
0.020000	0.344000	0.620000	0.016000
0.080000	0.194000	0.044000	0.682000
0.010000	0.002000	0.976000	0.012000
0.026000	0.066000	0.840000	0.068000
0.126000	0.594000	0.074000	0.206000

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.213 C 0.287 G 0.287 T 0.213

MOTIF CTCF-ext width = 15 sites = 244 llr = 1972 E-value = 3.4e-108

BL MOTIF CTCF-ext width=15 seqs=244

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.74483 E= 3.4e-108

23	-92	4	51
-70	-48	72	-15
-3	-117	36	47
-66	-513	145	-153
-66	-154	133	-224
105	6	-204	-18
201	-354	-160	-312
-312	118	-174	16
-224	-1457	-454	214
-270	-1457	175	-1457
-1457	180	-612	-1457
200	-281	-313	-153
-179	-132	129	-79
-145	73	39	-161
-3	65	-92	-18

letter-probability matrix: alength= 4 w= 15 nsites= 244 E= 3.4e-108

0.250000	0.151639	0.295082	0.303279
0.131148	0.204918	0.471311	0.192623
0.209016	0.127049	0.368852	0.295082
0.135246	0.008197	0.782787	0.073770
0.135246	0.098361	0.721311	0.045082
0.442623	0.299180	0.069672	0.188525
0.856557	0.024590	0.094262	0.024590
0.024590	0.651639	0.086066	0.237705
0.045082	0.000000	0.012295	0.942623
0.032787	0.000000	0.967213	0.000000
0.000000	0.995902	0.004098	0.000000
0.852459	0.040984	0.032787	0.073770
0.061475	0.114754	0.700820	0.122951
0.077869	0.475410	0.377049	0.069672
0.209016	0.450820	0.151639	0.188525

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Background letter frequencies (from dataset with add-one prior applied):  
A 0.128 C 0.372 G 0.372 T 0.128

MOTIF E2F1 width = 15 sites = 498 llr = 2940 E-value = 2.6e-072

BL MOTIF E2F1 width=15 seqs=498

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.72704 E= 2.6e-072

103	-34	8	-130
125	-153	55	-254
114	-175	61	-175
93	-2	6	-1560
189	-155	-86	59
87	-653	87	-64
69	-2	20	-1560
-500	-753	142	-1560
-209	138	-1560	-1560
-283	-1560	140	-1560
-600	93	-35	-1560
-1560	-59	102	-1560
103	48	-121	-114
100	-151	37	3
-51	-39	53	-51

letter-probability matrix: alength= 4 w= 15 nsites= 498 E= 2.6e-072

0.261044	0.293173	0.393574	0.052209
0.305221	0.128514	0.544177	0.022088
0.283133	0.110442	0.568273	0.038153
0.244980	0.367470	0.387550	0.000000
0.475904	0.126506	0.204819	0.192771
0.234940	0.004016	0.678715	0.082329
0.206827	0.365462	0.427711	0.000000
0.004016	0.002008	0.993976	0.000000
0.030120	0.969880	0.000000	0.000000
0.018072	0.000000	0.981928	0.000000
0.002008	0.706827	0.291165	0.000000
0.000000	0.246988	0.753012	0.000000
0.261044	0.520080	0.160643	0.058233
0.257028	0.130522	0.481928	0.130522
0.090361	0.283133	0.536145	0.090361

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.180 C 0.320 G 0.320 T 0.180

MOTIF E2F4 width = 20 sites = 493 llr = 3559 E-value = 2.9e-340

BL MOTIF E2F4 width=20 seqs=493

log-odds matrix: alength= 4 w= 20 n= 40500 bayes= 7.04971 E= 2.9e-340

46	8	-46	1
40	-31	-43	58
-34	-25	-83	118
-94	-10	-88	127
-45	27	-69	65
92	-17	-10	-118
130	-56	-78	-22
117	-91	-102	58
-34	-23	-160	141
-194	-28	-322	187
-266	-163	-147	207
-415	131	-86	-330
-1559	108	0	-1559
-647	164	-1559	-647
-1559	-1559	162	-347
-1559	155	-235	-1559
-447	93	-16	-91
57	16	-83	12
35	-7	-31	20
-40	42	-6	-51

letter-probability matrix: alength= 4 w= 20 nsites= 493 E= 2.9e-340

0.247465	0.338742	0.233266	0.180527
0.237323	0.257606	0.237323	0.267748
0.141988	0.269777	0.180527	0.407708
0.093306	0.298174	0.174442	0.434077
0.131846	0.387424	0.198783	0.281947
0.338742	0.283976	0.298174	0.079108
0.442191	0.217039	0.186613	0.154158
0.403651	0.170385	0.158215	0.267748
0.141988	0.273834	0.105477	0.478702
0.046653	0.263692	0.034483	0.655172
0.028398	0.103448	0.115619	0.752535
0.010142	0.795132	0.176471	0.018256
0.000000	0.679513	0.320487	0.000000
0.002028	0.995943	0.000000	0.002028
0.000000	0.000000	0.983773	0.016227
0.000000	0.937120	0.062880	0.000000
0.008114	0.610548	0.286004	0.095335
0.265720	0.359026	0.180527	0.194726
0.229209	0.306288	0.257606	0.206897
0.135903	0.430020	0.308316	0.125761

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.230 C 0.270 G 0.270 T 0.230

MOTIF EBF1 width = 15 sites = 495 llr = 4646 E-value = 2.3e-826

BL MOTIF EBF1 width=15 seqs=495

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.73136 E= 2.3e-826

70	-113	6	-5
-100	1	63	-22
-219	43	-211	118
-1560	189	-706	-1560
-351	146	-1560	4
-1560	187	-1560	-403
104	-506	-360	111
-23	-389	134	-116
-293	-1560	184	-583
-75	-1560	165	-383
-1560	-1560	189	-1560
187	-425	-115	-351
-13	58	16	-141
-5	25	-167	69
-7	-27	-54	68

letter-probability matrix: alength= 4 w= 15 nsites= 495 E= 2.3e-826

0.373737	0.123232	0.280808	0.222222
0.115152	0.270707	0.416162	0.197980
0.050505	0.363636	0.062626	0.523232
0.000000	0.997980	0.002020	0.000000
0.020202	0.743434	0.000000	0.236364
0.000000	0.985859	0.000000	0.014141
0.472727	0.008081	0.022222	0.496970
0.195960	0.018182	0.682828	0.103030
0.030303	0.000000	0.965657	0.004040
0.137374	0.000000	0.846465	0.016162
0.000000	0.000000	1.000000	0.000000
0.844444	0.014141	0.121212	0.020202
0.210101	0.402020	0.301010	0.086869
0.222222	0.321212	0.084848	0.371717
0.220202	0.224242	0.185859	0.369697

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.154 C 0.346 G 0.346 T 0.154

MOTIF EGR1 width = 22 sites = 487 llr = 4363 E-value = 4.6e-688

BL MOTIF EGR1 width=22 seqs=487

log-odds matrix: alength= 4 w= 22 n= 39500 bayes= 7.01913 E= 4.6e-688

-10	-22	47	-94
47	-42	16	-12
31	-48	40	-58
-4	-95	-31	135
-214	-300	141	-1557
-94	131	-1557	-127
-1557	-1557	153	-1557
-1557	-581	65	155
-153	-1557	145	-1557
-1557	-1557	153	-1557
-1557	-1557	153	-1557
-83	105	-1557	37
-523	-1557	151	-390
-170	-408	116	4
66	-77	32	-34
55	-101	45	-25
15	-77	53	-27
13	-12	9	-8
25	-78	39	8
25	-48	38	-37
-45	-58	51	8
6	-56	47	-27

letter-probability matrix: alength= 4 w= 22 nsites= 487 E= 4.6e-688

0.143737	0.297741	0.478439	0.080082
0.213552	0.258727	0.386037	0.141684
0.190965	0.248460	0.457906	0.102669
0.149897	0.178645	0.279261	0.392197
0.034908	0.043121	0.921971	0.000000
0.080082	0.856263	0.000000	0.063655
0.000000	0.000000	1.000000	0.000000
0.000000	0.006160	0.542094	0.451745
0.053388	0.000000	0.946612	0.000000
0.000000	0.000000	1.000000	0.000000
0.000000	0.000000	1.000000	0.000000
0.086242	0.714579	0.000000	0.199179
0.004107	0.000000	0.985626	0.010267
0.047228	0.020534	0.774127	0.158111
0.242300	0.203285	0.433265	0.121150
0.225873	0.172485	0.472279	0.129363
0.170431	0.203285	0.498973	0.127310
0.168378	0.318275	0.367556	0.145791
0.182752	0.201232	0.453799	0.162218
0.182752	0.248460	0.449692	0.119097
0.112936	0.232033	0.492813	0.162218
0.160164	0.234086	0.478439	0.127310

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.177 C 0.323 G 0.323 T 0.177

MOTIF ELF1 width = 11 sites = 500 llr = 4417 E-value = 3.3e-735

BL MOTIF ELF1 width=11 seqs=500

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 6.47573 E= 3.3e-735

107	-58	16	-177
-201	132	-113	-547
-142	152	-575	-547
-1561	-1561	163	-1561
-1561	-1561	163	-1561
250	-1561	-1561	-1561
248	-1561	-733	-415
-111	-263	142	-1561
-266	-31	-301	192
12	-136	78	-47
18	-29	47	-98

letter-probability matrix: alength= 4 w= 11 nsites= 500 E= 3.3e-735

0.372000	0.216000	0.360000	0.052000
0.044000	0.804000	0.148000	0.004000
0.066000	0.924000	0.006000	0.004000
0.000000	0.000000	1.000000	0.000000
0.000000	0.000000	1.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.988000	0.000000	0.002000	0.010000
0.082000	0.052000	0.866000	0.000000
0.028000	0.260000	0.040000	0.672000
0.192000	0.126000	0.554000	0.128000
0.200000	0.264000	0.446000	0.090000



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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.177 C 0.323 G 0.323 T 0.177

MOTIF ELK4 width = 11 sites = 500 llr = 4417 E-value = 3.3e-735

BL MOTIF ELK4 width=11 seqs=500

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 6.47573 E= 3.3e-735

107	-58	16	-177
-201	132	-113	-547
-142	152	-575	-547
-1561	-1561	163	-1561
-1561	-1561	163	-1561
250	-1561	-1561	-1561
248	-1561	-733	-415
-111	-263	142	-1561
-266	-31	-301	192
12	-136	78	-47
18	-29	47	-98

letter-probability matrix: alength= 4 w= 11 nsites= 500 E= 3.3e-735

0.372000	0.216000	0.360000	0.052000
0.044000	0.804000	0.148000	0.004000
0.066000	0.924000	0.006000	0.004000
0.000000	0.000000	1.000000	0.000000
0.000000	0.000000	1.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.988000	0.000000	0.002000	0.010000
0.082000	0.052000	0.866000	0.000000
0.028000	0.260000	0.040000	0.672000
0.192000	0.126000	0.554000	0.128000
0.200000	0.264000	0.446000	0.090000

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.257 C 0.243 G 0.243 T 0.257

MOTIF ESR1 width = 20 sites = 457 llr = 4630 E-value = 3.0e-845

BL MOTIF ESR1 width=20 seqs=457

log-odds matrix: alength= 4 w= 20 n= 40500 bayes= 8.76316 E= 3.0e-845

19	-66	45	-21
0	-35	17	11
-31	0	-12	34
-54	89	-51	-34
-22	88	-121	-18
140	-247	-24	-188
-488	-679	177	-69
-1548	-1548	202	-407
-307	-1548	-112	174
-1548	193	-215	-388
188	-521	-333	-356
-104	89	10	-65
-14	56	-15	-43
-32	63	7	-65
-175	-89	-521	161
-110	-1548	185	-588
110	-12	-158	-83
-263	173	-279	-110
-183	173	-1548	-110
-297	59	-184	105

letter-probability matrix: alength= 4 w= 20 nsites= 457 E= 3.0e-845

0.293217	0.153173	0.330416	0.223195
0.258206	0.190372	0.273523	0.277899
0.207877	0.242888	0.223195	0.326039
0.177243	0.448578	0.170678	0.203501
0.221007	0.446389	0.105033	0.227571
0.680525	0.043764	0.205689	0.070022
0.008753	0.002188	0.829322	0.159737
0.000000	0.000000	0.984683	0.015317
0.030635	0.000000	0.111597	0.857768
0.000000	0.927790	0.054705	0.017505
0.947484	0.006565	0.024070	0.021882
0.124726	0.450766	0.260394	0.164114
0.234136	0.356674	0.218818	0.190372
0.205689	0.376368	0.253829	0.164114
0.076586	0.131291	0.006565	0.785558
0.120350	0.000000	0.875274	0.004376
0.551422	0.223195	0.080963	0.144420
0.041575	0.803063	0.035011	0.120350
0.072210	0.807440	0.000000	0.120350
0.032823	0.365427	0.067834	0.533917

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.213 C 0.287 G 0.287 T 0.213

MOTIF ESRRR width = 11 sites = 500 llr = 3846 E-value = 3.8e-487

BL MOTIF ESRRR width=11 seqs=500

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 6.47573 E= 3.8e-487

-31	-72	70	-19
-80	40	29	-50
-141	99	-164	28
9	112	-117	-327
203	-300	-161	-573
209	-716	-174	-515
-327	-1561	176	-515
-515	-1561	172	-215
-149	-258	-79	174
-1561	169	-221	-393
207	-292	-264	-315

letter-probability matrix: alength= 4 w= 11 nsites= 500 E= 3.8e-487

0.172000	0.174000	0.468000	0.186000
0.122000	0.378000	0.350000	0.150000
0.080000	0.570000	0.092000	0.258000
0.226000	0.624000	0.128000	0.022000
0.866000	0.036000	0.094000	0.004000
0.906000	0.002000	0.086000	0.006000
0.022000	0.000000	0.972000	0.006000
0.006000	0.000000	0.946000	0.048000
0.076000	0.048000	0.166000	0.710000
0.000000	0.924000	0.062000	0.014000
0.892000	0.038000	0.046000	0.024000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.269 C 0.231 G 0.231 T 0.269

MOTIF ETS1 width = 11 sites = 256 llr = 2060 E-value = 4.1e-131

BL MOTIF ETS1 width=11 seqs=256

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 9.69036 E= 4.1e-131

-90	65	7	-11
76	-33	2	-111
-1464	110	-1464	90
-165	-1464	-1464	176
-1464	-1464	-1464	189
-1464	211	-1464	-1464
-1464	211	-1464	-1464
-1464	-1464	-1464	189
-1464	5	118	-18
-82	62	-136	58
-43	44	-64	34

letter-probability matrix: alength= 4 w= 11 nsites= 256 E= 4.1e-131

0.144531	0.363281	0.242188	0.250000
0.457031	0.183594	0.234375	0.125000
0.000000	0.496094	0.000000	0.503906
0.085938	0.000000	0.000000	0.914062
0.000000	0.000000	0.000000	1.000000
0.000000	1.000000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	0.238281	0.523438	0.238281
0.152344	0.355469	0.089844	0.402344
0.199219	0.312500	0.148438	0.339844

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.263 C 0.237 G 0.237 T 0.263

MOTIF FOXA width = 17 sites = 500 llr = 4396 E-value = 1.3e-713

BL MOTIF FOXA width=17 seqs=500

log-odds matrix: alength= 4 w= 17 n= 42000 bayes= 6.37504 E= 1.3e-713

-23	-15	-21	44
-63	40	32	-25
8	43	6	-74
-126	126	-96	-40
73	-372	-389	101
91	-153	64	-229
83	-530	-60	49
-106	-430	183	-387
-1561	25	-688	144
175	-108	-1561	-1561
185	-219	-1561	-1561
192	-1561	-688	-604
-1561	174	-688	-34
189	-688	-530	-404
50	-35	4	-41
35	-15	31	-76
-1	4	60	-95

letter-probability matrix: alength= 4 w= 17 nsites= 500 E= 1.3e-713

0.224000	0.214000	0.204000	0.358000
0.170000	0.312000	0.296000	0.222000
0.278000	0.318000	0.246000	0.158000
0.110000	0.568000	0.122000	0.200000
0.436000	0.018000	0.016000	0.530000
0.496000	0.082000	0.368000	0.054000
0.468000	0.006000	0.156000	0.370000
0.126000	0.012000	0.844000	0.018000
0.000000	0.282000	0.002000	0.716000
0.888000	0.112000	0.000000	0.000000
0.948000	0.052000	0.000000	0.000000
0.994000	0.000000	0.002000	0.004000
0.000000	0.790000	0.002000	0.208000
0.976000	0.002000	0.006000	0.016000
0.372000	0.186000	0.244000	0.198000
0.336000	0.214000	0.294000	0.156000
0.262000	0.244000	0.358000	0.136000

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.177 C 0.323 G 0.323 T 0.177

MOTIF GABP width = 11 sites = 500 llr = 4417 E-value = 3.3e-735

BL MOTIF GABP width=11 seqs=500

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 6.47573 E= 3.3e-735

107	-58	16	-177
-201	132	-113	-547
-142	152	-575	-547
-1561	-1561	163	-1561
-1561	-1561	163	-1561
250	-1561	-1561	-1561
248	-1561	-733	-415
-111	-263	142	-1561
-266	-31	-301	192
12	-136	78	-47
18	-29	47	-98

letter-probability matrix: alength= 4 w= 11 nsites= 500 E= 3.3e-735

0.372000	0.216000	0.360000	0.052000
0.044000	0.804000	0.148000	0.004000
0.066000	0.924000	0.006000	0.004000
0.000000	0.000000	1.000000	0.000000
0.000000	0.000000	1.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.988000	0.000000	0.002000	0.010000
0.082000	0.052000	0.866000	0.000000
0.028000	0.260000	0.040000	0.672000
0.192000	0.126000	0.554000	0.128000
0.200000	0.264000	0.446000	0.090000

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.264 C 0.236 G 0.236 T 0.264

MOTIF GATA1 width = 10 sites = 453 llr = 3450 E-value = 5.8e-364

BL MOTIF GATA1 width=10 seqs=453

log-odds matrix: alength= 4 w= 10 n= 45500 bayes= 7.87499 E= 5.8e-364

-173	50	-13	49
-186	135	-68	-58
-373	-138	-1547	175
-244	-1547	-1547	185
192	-1547	-1547	-1547
-1547	-1547	-1547	192
-1547	208	-1547	-1547
17	-1547	-1547	142
-232	34	90	-33
-46	30	-42	37

letter-probability matrix: alength= 4 w= 10 nsites= 453 E= 5.8e-364

0.079470	0.333333	0.216336	0.370861
0.072848	0.602649	0.147903	0.176600
0.019868	0.090508	0.000000	0.889625
0.048565	0.000000	0.000000	0.951435
1.000000	0.000000	0.000000	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	1.000000	0.000000	0.000000
0.295806	0.000000	0.000000	0.704194
0.052980	0.298013	0.439294	0.209713
0.192053	0.291391	0.176600	0.339956

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.255 C 0.245 G 0.245 T 0.255

MOTIF GATA1-ext width = 20 sites = 499 llr = 3927 E-value = 1.4e-511

BL MOTIF GATA1-ext width=20 seqs=499

log-odds matrix: alength= 4 w= 20 n= 40500 bayes= 8.33077 E= 1.4e-511

-121	88	17	-65
-118	-48	-85	118
-167	-203	131	-2
-86	4	70	-29
-9	-28	16	16
-2	-7	25	-20
-2	-19	39	-25
-11	-2	36	-30
-43	1	12	23
9	-22	37	-33
-63	77	37	-135
143	-324	-435	11
-1561	-1561	203	-1561
197	-1561	-1561	-1561
-1561	-494	-1561	196
183	-1561	-593	-153
165	-348	-73	-308
-33	-58	117	-163
33	2	47	-147
39	-15	4	-40

letter-probability matrix: alength= 4 w= 20 nsites= 499 E= 1.4e-511

0.110220	0.450902	0.276553	0.162325
0.112224	0.176353	0.136273	0.575150
0.080160	0.060120	0.609218	0.250501
0.140281	0.252505	0.398798	0.208417
0.238477	0.202405	0.274549	0.284569
0.250501	0.234469	0.292585	0.222445
0.250501	0.214429	0.320641	0.214429
0.236473	0.242485	0.314629	0.206413
0.188377	0.246493	0.266533	0.298597
0.270541	0.210421	0.316633	0.202405
0.164329	0.418838	0.316633	0.100200
0.687375	0.026052	0.012024	0.274549
0.000000	0.000000	1.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.008016	0.000000	0.991984
0.907816	0.000000	0.004008	0.088176
0.799599	0.022044	0.148297	0.030060
0.202405	0.164329	0.551102	0.082164
0.320641	0.248497	0.338677	0.092184
0.334669	0.220441	0.252505	0.192385



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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.275 C 0.225 G 0.225 T 0.275

MOTIF GATA3 width = 15 sites = 137 llr = 1192 E-value = 5.3e-041

BL MOTIF GATA3 width=15 seqs=137

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 9.09295 E= 5.3e-041

-223	112	-14	-15
12	-236	-1374	126
-1374	-395	210	-365
144	-336	-263	-48
-1374	-336	-178	173
9	14	1	-23
26	-36	-25	16
-71	83	-195	44
185	-1374	-1374	-523
-1374	-395	-125	170
-1374	204	-295	-265
-38	-336	-1374	148
-143	101	54	-123
-59	30	-1374	98
-206	-104	118	19

letter-probability matrix: alength= 4 w= 15 nsites= 137 E= 5.3e-041

0.058394	0.489051	0.204380	0.248175
0.299270	0.043796	0.000000	0.656934
0.000000	0.014599	0.963504	0.021898
0.744526	0.021898	0.036496	0.197080
0.000000	0.021898	0.065693	0.912409
0.291971	0.248175	0.226277	0.233577
0.328467	0.175182	0.189781	0.306569
0.167883	0.401460	0.058394	0.372263
0.992701	0.000000	0.000000	0.007299
0.000000	0.014599	0.094891	0.890511
0.000000	0.927007	0.029197	0.043796
0.211679	0.021898	0.000000	0.766423
0.102190	0.452555	0.328467	0.116788
0.182482	0.277372	0.000000	0.540146
0.065693	0.109489	0.510949	0.313869

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.233 C 0.267 G 0.267 T 0.233

MOTIF GF11 width = 8 sites = 134 llr = 1167 E-value = 1.2e-055

BL MOTIF GF11 width=8 seqs=134

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 10.5971 E= 1.2e-055

210	-1371	-1371	-1371
210	-1371	-1371	-1371
-1371	16	-1371	159
-1371	190	-1371	-1371
143	-1371	-1371	68
-1371	142	8	-1371
153	-1371	-1371	50
-1371	-1371	190	-1371

letter-probability matrix: alength= 4 w= 8 nsites= 134 E= 1.2e-055

1.000000	0.000000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.298507	0.000000	0.701493
0.000000	1.000000	0.000000	0.000000
0.626866	0.000000	0.000000	0.373134
0.000000	0.716418	0.283582	0.000000
0.671642	0.000000	0.000000	0.328358
0.000000	0.000000	1.000000	0.000000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.249 C 0.251 G 0.251 T 0.249

MOTIF HNF4 width = 14 sites = 490 llr = 4400 E-value = 2.4e-723

BL MOTIF HNF4 width=14 seqs=490

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 7.15643 E= 2.4e-723

87	-324	74	-135
-147	-294	168	-176
-54	-162	18	90
-95	55	-17	18
-376	186	-536	-193
191	-377	-313	-376
167	-436	-48	-412
186	-694	-142	-1558
-593	-394	193	-335
-254	-394	-57	163
-218	121	-145	12
-347	183	-494	-168
162	-213	-185	-123
12	-42	54	-50

letter-probability matrix: alength= 4 w= 14 nsites= 490 E= 2.4e-723

0.455102	0.026531	0.420408	0.097959
0.089796	0.032653	0.804082	0.073469
0.171429	0.081633	0.283673	0.463265
0.128571	0.367347	0.222449	0.281633
0.018367	0.910204	0.006122	0.065306
0.934694	0.018367	0.028571	0.018367
0.793878	0.012245	0.179592	0.014286
0.904082	0.002041	0.093878	0.000000
0.004082	0.016327	0.955102	0.024490
0.042857	0.016327	0.169388	0.771429
0.055102	0.581633	0.091837	0.271429
0.022449	0.891837	0.008163	0.077551
0.767347	0.057143	0.069388	0.106122
0.271429	0.187755	0.365306	0.175510

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.222 C 0.278 G 0.278 T 0.222

MOTIF HSF1 width = 15 sites = 174 llr = 1862 E-value = 1.5e-233

BL MOTIF HSF1 width=15 seqs=174

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.9629 E= 1.5e-233

120	-169	49	-427
-1409	-459	183	-1409
206	-327	-559	-247
189	-242	-214	-181
-3	21	5	-37
34	21	-31	-37
-169	-214	-227	187
-247	-301	-159	191
-1409	185	-1409	-1409
-1409	61	-279	127
157	-259	5	-527
-1409	-401	182	-1409
198	-279	-242	-295
178	-214	-114	-227
45	-17	34	-119

letter-probability matrix: alength= 4 w= 15 nsites= 174 E= 1.5e-233

0.511494	0.086207	0.390805	0.011494
0.000000	0.011494	0.988506	0.000000
0.925287	0.028736	0.005747	0.040230
0.821839	0.051724	0.063218	0.063218
0.218391	0.321839	0.287356	0.172414
0.281609	0.321839	0.224138	0.172414
0.068966	0.063218	0.057471	0.810345
0.040230	0.034483	0.091954	0.833333
0.000000	1.000000	0.000000	0.000000
0.000000	0.425287	0.040230	0.534483
0.660920	0.045977	0.287356	0.005747
0.000000	0.017241	0.982759	0.000000
0.879310	0.040230	0.051724	0.028736
0.764368	0.063218	0.126437	0.045977
0.304598	0.247126	0.350575	0.097701

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.197 C 0.303 G 0.303 T 0.197

MOTIF MAX width = 14 sites = 493 llr = 4359 E-value = 1.4e-708

BL MOTIF MAX width=14 seqs=493

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 7.75099 E= 1.4e-708

10	-20	43	-75
99	-29	-47	-47
-43	96	-40	-243
-1559	172	-1559	-1559
234	-1559	-722	-1559
-1559	162	-1559	-147
-1559	-1559	172	-1559
-1559	-622	-1559	234
-1559	-1559	172	-1559
77	-39	-28	-11
-328	80	-158	83
-63	62	-252	85
-8	8	-54	53
-96	33	4	7

letter-probability matrix: alength= 4 w= 14 nsites= 493 E= 1.4e-708

0.210953	0.263692	0.407708	0.117647
0.391481	0.247465	0.219067	0.141988
0.146045	0.588235	0.229209	0.036511
0.000000	1.000000	0.000000	0.000000
0.997972	0.000000	0.002028	0.000000
0.000000	0.929006	0.000000	0.070994
0.000000	0.000000	1.000000	0.000000
0.000000	0.004057	0.000000	0.995943
0.000000	0.000000	1.000000	0.000000
0.336714	0.231237	0.249493	0.182556
0.020284	0.527383	0.101420	0.350913
0.127789	0.464503	0.052738	0.354970
0.186613	0.320487	0.208925	0.283976
0.101420	0.381339	0.310345	0.206897

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.298 C 0.202 G 0.202 T 0.298

MOTIF MEF2 width = 15 sites = 472 llr = 3754 E-value = 4.2e-456

BL MOTIF MEF2 width=15 seqs=472

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.76484 E= 4.2e-456

-2	-32	58	-29
-4	-93	36	21
-82	-90	85	27
-103	166	-199	-83
-713	134	-1553	71
122	-55	-276	-109
128	-376	-67	-114
166	-1553	-211	-482
161	-499	-557	-197
163	-1553	-557	-205
-323	-499	-1553	169
168	-1553	-211	-1553
-58	-193	184	-344
42	90	-115	-114
35	37	-153	-5

letter-probability matrix: alength= 4 w= 15 nsites= 472 E= 4.2e-456

0.294492	0.161017	0.300847	0.243644
0.290254	0.105932	0.258475	0.345339
0.169492	0.108051	0.362288	0.360169
0.146186	0.635593	0.050847	0.167373
0.002119	0.510593	0.000000	0.487288
0.692797	0.137712	0.029661	0.139831
0.722458	0.014831	0.127119	0.135593
0.942797	0.000000	0.046610	0.010593
0.913136	0.006356	0.004237	0.076271
0.923729	0.000000	0.004237	0.072034
0.031780	0.006356	0.000000	0.961864
0.953390	0.000000	0.046610	0.000000
0.199153	0.052966	0.720339	0.027542
0.398305	0.375000	0.091102	0.135593
0.381356	0.260593	0.069915	0.288136

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.194 C 0.306 G 0.306 T 0.194

MOTIF MYC width = 14 sites = 399 llr = 3158 E-value = 8.2e-310

BL MOTIF MYC width=14 seqs=399

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 7.89329 E= 8.2e-310

-32	-5	39	-39
83	-5	-118	20
-106	43	55	-210
-1528	171	-1528	-1528
230	-1528	-276	-1528
-1528	167	-1528	-281
-30	-1528	146	-1528
-132	-247	-1528	216
-1528	-1528	171	-1528
-1528	-241	127	7
-85	62	-61	19
-3	-16	-74	87
-47	0	16	14
-60	51	-42	10

letter-probability matrix: alength= 4 w= 14 nsites= 399 E= 8.2e-310

0.155388	0.295739	0.401003	0.147870
0.345865	0.295739	0.135338	0.223058
0.092732	0.413534	0.448622	0.045113
0.000000	1.000000	0.000000	0.000000
0.954887	0.000000	0.045113	0.000000
0.000000	0.972431	0.000000	0.027569
0.157895	0.000000	0.842105	0.000000
0.077694	0.055138	0.000000	0.867168
0.000000	0.000000	1.000000	0.000000
0.000000	0.057644	0.739348	0.203008
0.107769	0.471178	0.200501	0.220551
0.190476	0.273183	0.182957	0.353383
0.140351	0.305764	0.340852	0.213033
0.127820	0.436090	0.228070	0.208020

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.233 C 0.267 G 0.267 T 0.233

MOTIF NFE2 width = 19 sites = 383 llr = 4945 E-value = 3.5e-1103

BL MOTIF NFE2 width=19 seqs=383

log-odds matrix: alength= 4 w= 19 n= 41000 bayes= 8.32109 E= 3.5e-1103

75	-65	18	-78
102	-187	-6	-23
122	-154	-163	25
95	-100	-187	55
-25	12	-65	56
-209	-167	-509	187
-1523	-435	189	-1523
-268	183	-667	-448
-216	-243	-567	194
-268	-321	171	-196
194	-409	-1523	-140
-316	-106	163	-367
-1523	-1523	-1523	210
-548	190	-1523	-648
209	-1523	-667	-1523
-1523	28	-509	152
-135	23	29	20
-81	56	12	-35
-13	-17	-84	77

letter-probability matrix: alength= 4 w= 19 nsites= 383 E= 3.5e-1103

0.391645	0.169713	0.302872	0.135770
0.472585	0.073107	0.255875	0.198433
0.545692	0.091384	0.086162	0.276762
0.451697	0.133159	0.073107	0.342037
0.195822	0.289817	0.169713	0.344648
0.054830	0.083551	0.007833	0.853786
0.000000	0.013055	0.986945	0.000000
0.036554	0.950392	0.002611	0.010444
0.052219	0.049608	0.005222	0.892950
0.036554	0.028721	0.874674	0.060052
0.895561	0.015666	0.000000	0.088773
0.026110	0.127937	0.827676	0.018277
0.000000	0.000000	0.000000	1.000000
0.005222	0.992167	0.000000	0.002611
0.997389	0.000000	0.002611	0.000000
0.000000	0.323760	0.007833	0.668407
0.091384	0.313316	0.326371	0.268930
0.133159	0.394256	0.289817	0.182768
0.214099	0.237598	0.148825	0.399478



MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.240 C 0.260 G 0.260 T 0.240

MOTIF NFKB1 width = 15 sites = 483 llr = 4782 E-value = 1.7e-893

BL MOTIF NFKB1 width=15 seqs=483

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.14637 E= 1.7e-893

79	-233	22	-5
-1556	-1556	191	-327
-1556	-1556	194	-1556
-1556	-1556	186	-210
79	-538	105	-254
94	21	-111	-103
-40	-339	-697	172
-405	-288	-288	193
-1556	-56	-397	175
-427	186	-1556	-240
-486	186	-1556	-240
78	62	-197	-98
52	-23	31	-108
28	-45	39	-43
-21	-8	51	-45

letter-probability matrix: alength= 4 w= 15 nsites= 483 E= 1.7e-893

0.414079	0.051760	0.302277	0.231884
0.000000	0.000000	0.975155	0.024845
0.000000	0.000000	1.000000	0.000000
0.000000	0.000000	0.944099	0.055901
0.414079	0.006211	0.538302	0.041408
0.461698	0.300207	0.120083	0.118012
0.182195	0.024845	0.002070	0.790890
0.014493	0.035197	0.035197	0.915114
0.000000	0.175983	0.016563	0.807453
0.012422	0.942029	0.000000	0.045549
0.008282	0.946170	0.000000	0.045549
0.412008	0.399586	0.066253	0.122153
0.343685	0.221532	0.320911	0.113872
0.291925	0.190476	0.339545	0.178054
0.207039	0.246377	0.370600	0.175983

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.202 C 0.298 G 0.298 T 0.202

MOTIF NFY width = 15 sites = 500 llr = 4666 E-value = 1.1e-834

BL MOTIF NFY width=15 seqs=500

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 6.40939 E= 1.1e-834

-53	59	-23	-37
-30	48	-158	67
-120	-40	-43	120
-249	121	-101	-70
-566	31	-283	153
-333	15	80	-66
227	-722	-363	-1561
-665	-441	-522	227
-366	-1561	-1561	229
-1561	-722	174	-1561
-665	-1561	174	-1561
-70	88	-313	54
-296	39	-205	134
78	-52	35	-161
48	-68	47	-75

letter-probability matrix: alength= 4 w= 15 nsites= 500 E= 1.1e-834

0.140000	0.450000	0.254000	0.156000
0.164000	0.416000	0.100000	0.320000
0.088000	0.226000	0.222000	0.464000
0.036000	0.692000	0.148000	0.124000
0.004000	0.370000	0.042000	0.584000
0.020000	0.332000	0.520000	0.128000
0.974000	0.002000	0.024000	0.000000
0.002000	0.014000	0.008000	0.976000
0.016000	0.000000	0.000000	0.984000
0.000000	0.002000	0.998000	0.000000
0.002000	0.000000	0.998000	0.000000
0.124000	0.548000	0.034000	0.294000
0.026000	0.392000	0.072000	0.510000
0.346000	0.208000	0.380000	0.066000
0.282000	0.186000	0.412000	0.120000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.178 C 0.322 G 0.322 T 0.178

MOTIF NFY-UA2 width = 24 sites = 46 llr = 581 E-value = 2.0e-031

BL MOTIF NFY-UA2 width=24 seqs=46

log-odds matrix: alength= 4 w= 24 n= 38500 bayes= 10.1103 E= 2.0e-031

218	-1217	-72	-1217
-203	-72	-1217	210
-45	-1217	-388	225
-303	-230	150	-1217
-203	-289	150	-1217
-3	102	-388	-23
-303	20	-157	149
77	-72	20	-45
77	-157	36	-3
29	36	-57	-23
87	-72	-19	14
-3	-19	-57	87
77	-72	11	-23
-71	11	28	-23
-45	102	-157	-71
-145	20	-1217	167
-45	-1217	143	-1217
-1217	36	-388	167
-1217	157	-1217	-203
97	28	-130	-45
77	-30	11	-103
-1217	-1217	-388	246
-1217	150	-388	-145
167	-130	-130	-3

letter-probability matrix: alength= 4 w= 24 nsites= 46 E= 2.0e-031

0.804348	0.000000	0.195652	0.000000
0.043478	0.195652	0.000000	0.760870
0.130435	0.000000	0.021739	0.847826
0.021739	0.065217	0.913043	0.000000
0.043478	0.043478	0.913043	0.000000
0.173913	0.652174	0.021739	0.152174
0.021739	0.369565	0.108696	0.500000
0.304348	0.195652	0.369565	0.130435
0.304348	0.108696	0.413043	0.173913
0.217391	0.413043	0.217391	0.152174
0.326087	0.195652	0.282609	0.195652
0.173913	0.282609	0.217391	0.326087
0.304348	0.195652	0.347826	0.152174
0.108696	0.347826	0.391304	0.152174
0.130435	0.652174	0.108696	0.108696
0.065217	0.369565	0.000000	0.565217
0.130435	0.000000	0.869565	0.000000
0.000000	0.413043	0.021739	0.565217
0.000000	0.956522	0.000000	0.043478
0.347826	0.391304	0.130435	0.130435
0.304348	0.260870	0.347826	0.086957
0.000000	0.000000	0.021739	0.978261
0.000000	0.913043	0.021739	0.065217
0.565217	0.130435	0.130435	0.173913

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.195 C 0.305 G 0.305 T 0.195

MOTIF NR2C2 width = 15 sites = 182 llr = 2192 E-value = 6.4e-353

BL MOTIF NR2C2 width=15 seqs=182

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 9.43577 E= 6.4e-353

78	-2	-51	-39
2	-71	86	-169
130	-1415	77	-1415
-215	-1415	163	-414
-514	-579	165	-256
-1415	-321	-127	211
-414	144	-180	-145
220	-1415	-155	-1415
141	-1415	65	-514
214	-1415	-110	-1415
-282	-1415	166	-514
-414	-579	156	-124
-1415	-299	-94	204
-514	143	-234	-82
195	-579	-47	-315

letter-probability matrix: alength= 4 w= 15 nsites= 182 E= 6.4e-353

0.335165	0.302198	0.214286	0.148352
0.197802	0.186813	0.554945	0.060440
0.478022	0.000000	0.521978	0.000000
0.043956	0.000000	0.945055	0.010989
0.005495	0.005495	0.956044	0.032967
0.000000	0.032967	0.126374	0.840659
0.010989	0.829670	0.087912	0.071429
0.895604	0.000000	0.104396	0.000000
0.516484	0.000000	0.478022	0.005495
0.857143	0.000000	0.142857	0.000000
0.027473	0.000000	0.967033	0.005495
0.010989	0.005495	0.901099	0.082418
0.000000	0.038462	0.159341	0.802198
0.005495	0.824176	0.060440	0.109890
0.752747	0.005495	0.219780	0.021978

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.217 C 0.283 G 0.283 T 0.217

MOTIF NR3C1 width = 15 sites = 479 llr = 4112 E-value = 9.7e-603

BL MOTIF NR3C1 width=15 seqs=479

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.15023 E= 9.7e-603

64	-317	97	-149
-145	-508	162	-231
98	-91	0	-64
194	-327	-208	-166
-438	179	-427	-1555
184	-1555	-227	-40
-145	1	110	-280
79	-108	13	-26
109	-122	18	-115
-135	-42	-244	158
-438	-362	177	-1555
-338	-362	-269	207
-40	21	-30	35
-170	159	-427	-170
-18	10	-362	115

letter-probability matrix: alength= 4 w= 15 nsites= 479 E= 9.7e-603

0.338205	0.031315	0.553236	0.077244
0.079332	0.008351	0.868476	0.043841
0.427975	0.150313	0.281837	0.139875
0.835073	0.029228	0.066806	0.068894
0.010438	0.974948	0.014614	0.000000
0.776618	0.000000	0.058455	0.164927
0.079332	0.283925	0.605428	0.031315
0.375783	0.133612	0.308977	0.181628
0.461378	0.121086	0.319415	0.098121
0.085595	0.210856	0.052192	0.651357
0.010438	0.022965	0.966597	0.000000
0.020877	0.022965	0.043841	0.912317
0.164927	0.327766	0.229645	0.277662
0.066806	0.851775	0.014614	0.066806
0.192067	0.302714	0.022965	0.482255

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.158 C 0.342 G 0.342 T 0.158

MOTIF NRF1 width = 15 sites = 500 llr = 5597 E-value = 5.5e-1231

BL MOTIF NRF1 width=15 seqs=500

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.14665 E= 5.5e-1231

-98	-3	-57	117
-63	-483	137	-1561
-122	143	-461	-1561
-285	-1561	151	-472
-472	153	-583	-1561
213	-69	-217	-285
-222	-351	-137	235
-530	-1561	154	-630
-1561	155	-1561	-1561
-1561	-641	150	-260
-1561	151	-1561	-272
241	-325	-189	-231
-37	-29	72	-222
20	-53	-74	126
-6	-144	93	-118

letter-probability matrix: alength= 4 w= 15 nsites= 500 E= 5.5e-1231

0.080000	0.334000	0.230000	0.356000
0.102000	0.012000	0.886000	0.000000
0.068000	0.918000	0.014000	0.000000
0.022000	0.000000	0.972000	0.006000
0.006000	0.988000	0.006000	0.000000
0.690000	0.212000	0.076000	0.022000
0.034000	0.030000	0.132000	0.804000
0.004000	0.000000	0.994000	0.002000
0.000000	1.000000	0.000000	0.000000
0.000000	0.004000	0.970000	0.026000
0.000000	0.976000	0.000000	0.024000
0.840000	0.036000	0.092000	0.032000
0.122000	0.280000	0.564000	0.034000
0.182000	0.236000	0.204000	0.378000
0.152000	0.126000	0.652000	0.070000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.170 C 0.330 G 0.330 T 0.170

MOTIF PAX5 width = 16 sites = 490 llr = 3217 E-value = 1.7e-199

BL MOTIF PAX5 width=16 seqs=490

log-odds matrix: alength= 4 w= 16 n= 42500 bayes= 6.39817 E= 1.7e-199

34	-57	28	-6
-379	-43	68	32
-192	128	-234	-99
187	-125	-81	-173
-42	-62	82	-113
-338	81	-98	48
-45	42	27	-229
145	-325	52	-257
167	-188	-56	-21
-538	-8	104	-538
-538	141	-434	-73
-2	-417	127	-321
-142	-158	-36	175
88	-417	100	-438
192	-295	-47	-117
-21	123	-264	-268

letter-probability matrix: alength= 4 w= 16 nsites= 490 E= 1.7e-199

0.214286	0.222449	0.400000	0.163265
0.012245	0.244898	0.530612	0.212245
0.044898	0.804082	0.065306	0.085714
0.622449	0.138776	0.187755	0.051020
0.126531	0.214286	0.581633	0.077551
0.016327	0.579592	0.167347	0.236735
0.124490	0.442857	0.397959	0.034694
0.463265	0.034694	0.473469	0.028571
0.538776	0.089796	0.224490	0.146939
0.004082	0.312245	0.679592	0.004082
0.004082	0.877551	0.016327	0.102041
0.167347	0.018367	0.795918	0.018367
0.063265	0.110204	0.257143	0.569388
0.312245	0.018367	0.661224	0.008163
0.642857	0.042857	0.238776	0.075510
0.146939	0.773469	0.053061	0.026531

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.235 C 0.265 G 0.265 T 0.235

MOTIF POU2F2 width = 13 sites = 382 llr = 3743 E-value = 4.1e-603

BL MOTIF POU2F2 width=13 seqs=382

log-odds matrix: alength= 4 w= 13 n= 44000 bayes= 7.28051 E= 4.1e-603

-61	50	-53	29
-11	-71	-6	64
13	33	-36	-20
167	-138	-185	-163
-1522	-666	-1522	209
-68	-266	-1522	179
-303	-1522	-1522	205
-203	-1522	177	-258
-317	187	-1522	-648
208	-566	-1522	-1522
-490	-1522	-1522	208
131	-296	0	-100
24	-55	-114	84

letter-probability matrix: alength= 4 w= 13 nsites= 382 E= 4.1e-603

0.154450	0.374346	0.183246	0.287958
0.217277	0.162304	0.253927	0.366492
0.256545	0.332461	0.206806	0.204188
0.748691	0.102094	0.073298	0.075916
0.000000	0.002618	0.000000	0.997382
0.146597	0.041885	0.000000	0.811518
0.028796	0.000000	0.000000	0.971204
0.057592	0.000000	0.903141	0.039267
0.026178	0.971204	0.000000	0.002618
0.994764	0.005236	0.000000	0.000000
0.007853	0.000000	0.000000	0.992147
0.583770	0.034031	0.264398	0.117801
0.277487	0.180628	0.120419	0.421466



MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.284 C 0.216 G 0.216 T 0.284

MOTIF PRDM1 width = 15 sites = 495 llr = 5042 E-value = 3.9e-997

BL MOTIF PRDM1 width=15 seqs=495

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.73136 E= 3.9e-997

-66	3	-18	53
-36	117	-109	-58
156	-174	-125	-613
-333	212	-304	-481
-433	-674	-1560	179
-1560	-178	-1560	172
-1560	-1560	-515	181
-1560	216	-1560	-289
115	-35	-374	-64
-368	210	-574	-249
-397	-88	-1560	160
-209	-91	-91	131
-78	-67	-128	110
-144	95	-88	34
13	-4	-63	26

letter-probability matrix: alength= 4 w= 15 nsites= 495 E= 3.9e-997

0.179798	0.220202	0.189899	0.410101
0.222222	0.486869	0.101010	0.189899
0.840404	0.064646	0.090909	0.004040
0.028283	0.935354	0.026263	0.010101
0.014141	0.002020	0.000000	0.983838
0.000000	0.062626	0.000000	0.937374
0.000000	0.000000	0.006061	0.993939
0.000000	0.961616	0.000000	0.038384
0.632323	0.169697	0.016162	0.181818
0.022222	0.923232	0.004040	0.050505
0.018182	0.117172	0.000000	0.864646
0.066667	0.115152	0.115152	0.703030
0.165657	0.135354	0.088889	0.610101
0.105051	0.418182	0.117172	0.359596
0.311111	0.210101	0.139394	0.339394

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.262 C 0.238 G 0.238 T 0.262

MOTIF PU1 width = 15 sites = 500 llr = 6325 E-value = 5.2e-1555

BL MOTIF PU1 width=15 seqs=500

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.69928 E= 5.2e-1555

141	-250	-122	-69
143	-265	-90	-103
128	-431	-147	1
-103	-273	179	-445
129	-177	25	-603
-178	-1561	196	-1561
-1561	-1561	207	-703
193	-1561	-1561	-1561
191	-1561	-1561	-422
-386	52	143	-1561
-445	-1561	-589	191
-703	-390	204	-1561
152	-181	-59	-345
111	-194	29	-171
156	-128	-220	-175

letter-probability matrix: alength= 4 w= 15 nsites= 500 E= 5.2e-1555

0.694000	0.042000	0.102000	0.162000
0.706000	0.038000	0.128000	0.128000
0.638000	0.012000	0.086000	0.264000
0.128000	0.036000	0.824000	0.012000
0.642000	0.070000	0.284000	0.004000
0.076000	0.000000	0.924000	0.000000
0.000000	0.000000	0.998000	0.002000
1.000000	0.000000	0.000000	0.000000
0.986000	0.000000	0.000000	0.014000
0.018000	0.342000	0.640000	0.000000
0.012000	0.000000	0.004000	0.984000
0.002000	0.016000	0.982000	0.000000
0.750000	0.068000	0.158000	0.024000
0.566000	0.062000	0.292000	0.080000
0.772000	0.098000	0.052000	0.078000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.182 C 0.318 G 0.318 T 0.182

MOTIF REST width = 21 sites = 408 llr = 7222 E-value = 3.9e-2032

BL MOTIF REST width=21 seqs=408

log-odds matrix: alength= 4 w= 21 n= 40000 bayes= 7.11546 E= 3.9e-2032

-46	-421	125	-93
-182	-53	102	-113
54	80	-421	-15
-117	-156	118	-97
-521	162	-602	-363
-389	-1532	-1532	244
-305	-181	148	-1532
-222	-470	-232	228
-1532	163	-1532	-363
-621	162	-1532	-341
135	-166	13	-105
3	-100	-170	161
-305	-502	160	-463
-1532	-1532	165	-1532
-421	-1532	-1532	244
-197	-124	127	-176
-1532	161	-443	-363
-463	-356	-1532	241
-222	-443	156	-421
210	-232	-114	-421
160	-32	-181	-86

letter-probability matrix: alength= 4 w= 21 nsites= 408 E= 3.9e-2032

0.132353	0.017157	0.754902	0.095588
0.051471	0.220588	0.644608	0.083333
0.264706	0.553922	0.017157	0.164216
0.080882	0.107843	0.718137	0.093137
0.004902	0.975490	0.004902	0.014706
0.012255	0.000000	0.000000	0.987745
0.022059	0.090686	0.887255	0.000000
0.039216	0.012255	0.063725	0.884804
0.000000	0.985294	0.000000	0.014706
0.002451	0.980392	0.000000	0.017157
0.463235	0.100490	0.348039	0.088235
0.186275	0.159314	0.098039	0.556373
0.022059	0.009804	0.960784	0.007353
0.000000	0.000000	1.000000	0.000000
0.009804	0.000000	0.000000	0.990196
0.046569	0.134804	0.764706	0.053922
0.000000	0.970588	0.014706	0.014706
0.007353	0.026961	0.000000	0.965686
0.039216	0.014706	0.936275	0.009804
0.781863	0.063725	0.144608	0.009804
0.553922	0.254902	0.090686	0.100490

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.229 C 0.271 G 0.271 T 0.229

MOTIF RFX5 width = 15 sites = 485 llr = 4131 E-value = 4.9e-605

BL MOTIF RFX5 width=15 seqs=485

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.14444 E= 4.9e-605

-115	-102	-75	140
-89	118	-93	-94
125	-52	-79	-104
-118	20	10	38
-194	107	-131	18
26	-279	-48	111
-321	-1557	183	-479
-1557	-334	-387	206
-175	-91	-545	177
-33	-345	131	-94
-421	178	-604	-215
-1557	67	-504	129
161	-445	-2	-333
-64	-313	119	-18
-255	-204	166	-255

letter-probability matrix: alength= 4 w= 15 nsites= 485 E= 4.9e-605

0.103093	0.134021	0.160825	0.602062
0.123711	0.614433	0.142268	0.119588
0.542268	0.189691	0.156701	0.111340
0.101031	0.311340	0.290722	0.296907
0.059794	0.571134	0.109278	0.259794
0.274227	0.039175	0.193814	0.492784
0.024742	0.000000	0.967010	0.008247
0.000000	0.026804	0.018557	0.954639
0.068041	0.144330	0.006186	0.781443
0.181443	0.024742	0.674227	0.119588
0.012371	0.931959	0.004124	0.051546
0.000000	0.430928	0.008247	0.560825
0.696907	0.012371	0.268041	0.022680
0.146392	0.030928	0.620619	0.202062
0.039175	0.065979	0.855670	0.039175

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.265 C 0.235 G 0.235 T 0.265

MOTIF RUNX1 width = 8 sites = 200 llr = 1580 E-value = 1.5e-062

BL MOTIF RUNX1 width=8 seqs=200

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 9.46728 E= 1.5e-062

86	-35	-1429	34
108	-75	9	-241
146	-75	-85	-1429
-1429	209	-1429	-1429
-1429	209	-1429	-1429
192	-1429	-1429	-1429
-1429	209	-1429	-1429
179	-1429	-1429	-164

letter-probability matrix: alength= 4 w= 8 nsites= 200 E= 1.5e-062

0.480000	0.185000	0.000000	0.335000
0.560000	0.140000	0.250000	0.050000
0.730000	0.140000	0.130000	0.000000
0.000000	1.000000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
0.915000	0.000000	0.000000	0.085000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.242 C 0.258 G 0.258 T 0.242

MOTIF RXRA width = 15 sites = 500 llr = 3333 E-value = 6.9e-256

BL MOTIF RXRA width=15 seqs=500

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 6.40939 E= 6.9e-256

-9	-90	83	-46
-34	-108	85	-13
-55	-22	55	-5
-63	114	-63	-114
137	-13	-269	-134
119	-172	37	-283
158	-1561	9	-1561
-222	-1561	188	-692
-275	-1561	161	-46
-283	-137	-110	162
-322	170	-184	-197
192	-601	-401	-197
27	-37	41	-55
9	-101	55	-4
-90	-67	97	-25

letter-probability matrix: alength= 4 w= 15 nsites= 500 E= 6.9e-256

0.228000	0.138000	0.458000	0.176000
0.192000	0.122000	0.464000	0.222000
0.166000	0.222000	0.378000	0.234000
0.156000	0.568000	0.166000	0.110000
0.628000	0.236000	0.040000	0.096000
0.554000	0.078000	0.334000	0.034000
0.726000	0.000000	0.274000	0.000000
0.052000	0.000000	0.946000	0.002000
0.036000	0.000000	0.788000	0.176000
0.034000	0.100000	0.120000	0.746000
0.026000	0.840000	0.072000	0.062000
0.918000	0.004000	0.016000	0.062000
0.292000	0.200000	0.342000	0.166000
0.258000	0.128000	0.378000	0.236000
0.130000	0.162000	0.504000	0.204000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.260 C 0.240 G 0.240 T 0.260

MOTIF SOX2 width = 8 sites = 148 llr = 1219 E-value = 1.7e-039

BL MOTIF SOX2 width=8 seqs=148

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 9.71663 E= 1.7e-039

89	-7	27	-1385
195	-1385	-1385	-1385
-1385	206	-1385	-1385
195	-1385	-1385	-1385
195	-1385	-1385	-1385
104	-1385	-1385	84
-1385	-1385	206	-1385
-2	24	93	-1385

letter-probability matrix: alength= 4 w= 8 nsites= 148 E= 1.7e-039

0.479730	0.229730	0.290541	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.533784	0.000000	0.000000	0.466216
0.000000	0.000000	1.000000	0.000000
0.256757	0.283784	0.459459	0.000000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.274 C 0.226 G 0.226 T 0.274

MOTIF SOX2-OCT4 width = 15 sites = 439 llr = 4569 E-value = 1.5e-850

BL MOTIF SOX2-OCT4 width=15 seqs=439

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.18941 E= 1.5e-850

-215	114	-57	7
-221	146	-193	-9
69	-293	-505	93
-532	-431	-383	182
-321	-663	-231	175
-166	9	149	-300
-25	-563	-383	145
-105	58	-143	70
186	-1542	-663	-532
-690	-563	-663	186
-1542	-1542	204	-205
-532	172	-118	-89
159	-431	-224	-121
94	-178	25	-98
147	-188	-124	-170

letter-probability matrix: alength= 4 w= 15 nsites= 439 E= 1.5e-850

0.061503	0.498861	0.152620	0.287016
0.059226	0.624146	0.059226	0.257403
0.441913	0.029613	0.006834	0.521640
0.006834	0.011390	0.015945	0.965831
0.029613	0.002278	0.045558	0.922551
0.086560	0.241458	0.637813	0.034169
0.230068	0.004556	0.015945	0.749431
0.132118	0.339408	0.084282	0.444191
0.990888	0.000000	0.002278	0.006834
0.002278	0.004556	0.002278	0.990888
0.000000	0.000000	0.933941	0.066059
0.006834	0.744875	0.100228	0.148064
0.822323	0.011390	0.047836	0.118451
0.526196	0.066059	0.268793	0.138952
0.758542	0.061503	0.095672	0.084282



MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.192 C 0.308 G 0.308 T 0.192

MOTIF SP1 width = 15 sites = 232 llr = 1883 E-value = 1.1e-095

BL MOTIF SP1 width=15 seqs=232

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.16982 E= 1.1e-095

113	-107	3	-67
90	-207	80	-267
5	-1450	110	-43
55	-1450	122	-1450
-315	-1450	167	-1450
-1450	-384	167	-1450
-201	140	-1450	-47
-230	-1450	164	-1450
-1450	-1450	157	-115
-52	-1450	144	-267
-19	-67	85	-123
-62	116	-358	-26
-83	57	-58	25
41	-125	-23	88
17	-84	73	-95

letter-probability matrix: alength= 4 w= 15 nsites= 232 E= 1.1e-095

0.418103	0.146552	0.314655	0.120690
0.357759	0.073276	0.538793	0.030172
0.198276	0.000000	0.659483	0.142241
0.280172	0.000000	0.719828	0.000000
0.021552	0.000000	0.978448	0.000000
0.000000	0.021552	0.978448	0.000000
0.047414	0.814655	0.000000	0.137931
0.038793	0.000000	0.961207	0.000000
0.000000	0.000000	0.913793	0.086207
0.133621	0.000000	0.836207	0.030172
0.168103	0.193966	0.556034	0.081897
0.125000	0.689655	0.025862	0.159483
0.107759	0.456897	0.206897	0.228448
0.254310	0.129310	0.262931	0.353448
0.215517	0.172414	0.512931	0.099138

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.218 C 0.282 G 0.282 T 0.218

MOTIF SREBF1 width = 10 sites = 111 llr = 960 E-value = 4.7e-078

BL MOTIF SREBF1 width=10 seqs=111

log-odds matrix: alength= 4 w= 10 n= 18564 bayes= 9.04821 E= 4.7e-078

83	-51	55	-1344
-1344	-1344	-1344	220
-1344	-33	146	-1344
36	-1344	135	-1344
-301	3	98	-79
-259	-97	154	-1344
-1344	-297	-1344	215
-1344	-1344	183	-1344
219	-1344	-1344	-459
-259	32	-88	108

letter-probability matrix: alength= 4 w= 10 nsites= 111 E= 4.7e-078

0.387387	0.198198	0.414414	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	0.225225	0.774775	0.000000
0.279279	0.000000	0.720721	0.000000
0.027027	0.288288	0.558559	0.126126
0.036036	0.144144	0.819820	0.000000
0.000000	0.036036	0.000000	0.963964
0.000000	0.000000	1.000000	0.000000
0.990991	0.000000	0.000000	0.009009
0.036036	0.351351	0.153153	0.459459

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.227 C 0.273 G 0.273 T 0.227

MOTIF SRF width = 14 sites = 390 llr = 4780 E-value = 7.0e-1033

BL MOTIF SRF width=14 seqs=390

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 7.90768 E= 7.0e-1033

18	4	-115	58
-161	-112	-315	176
-346	-174	-9	150
-28	-69	41	30
-1525	187	-1525	-1525
-1525	185	-1525	-414
-13	-293	-1525	174
-176	-1525	-1525	204
190	-474	-283	-107
-288	-474	-1525	208
136	-1525	-673	88
-16	-515	-515	179
-314	-1525	183	-1525
-1525	-673	187	-1525

letter-probability matrix: alength= 4 w= 14 nsites= 390 E= 7.0e-1033

0.256410	0.282051	0.123077	0.338462
0.074359	0.125641	0.030769	0.769231
0.020513	0.082051	0.256410	0.641026
0.187179	0.169231	0.364103	0.279487
0.000000	1.000000	0.000000	0.000000
0.000000	0.987179	0.000000	0.012821
0.207692	0.035897	0.000000	0.756410
0.066667	0.000000	0.000000	0.933333
0.843590	0.010256	0.038462	0.107692
0.030769	0.010256	0.000000	0.958974
0.579487	0.000000	0.002564	0.417949
0.202564	0.007692	0.007692	0.782051
0.025641	0.000000	0.974359	0.000000
0.000000	0.002564	0.997436	0.000000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.244 C 0.256 G 0.256 T 0.244

MOTIF STAT1 width = 15 sites = 470 llr = 4967 E-value = 3.6e-989

BL MOTIF STAT1 width=15 seqs=470

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.15895 E= 3.6e-989

-114	53	66	-109
55	-74	-8	1
-194	6	-135	122
-1552	-1552	-691	203
-404	-591	-282	195
-89	171	-459	-367
-284	138	-391	22
94	-1552	102	-452
-99	-1552	177	-684
-384	-1552	188	-260
203	-691	-1552	-1552
203	-1552	-1552	-1552
124	-124	-21	-138
-106	-17	-24	84
-109	45	83	-160

letter-probability matrix: alength= 4 w= 15 nsites= 470 E= 3.6e-989

0.110638	0.370213	0.404255	0.114894
0.357447	0.153191	0.242553	0.246809
0.063830	0.265957	0.100000	0.570213
0.000000	0.000000	0.002128	0.997872
0.014894	0.004255	0.036170	0.944681
0.131915	0.838298	0.010638	0.019149
0.034043	0.663830	0.017021	0.285106
0.470213	0.000000	0.519149	0.010638
0.123404	0.000000	0.874468	0.002128
0.017021	0.000000	0.942553	0.040426
0.997872	0.002128	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.576596	0.108511	0.221277	0.093617
0.117021	0.227660	0.217021	0.438298
0.114894	0.348936	0.455319	0.080851

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.263 C 0.237 G 0.237 T 0.263

MOTIF STAT2 width = 15 sites = 462 llr = 5230 E-value = 1.1e-1108

BL MOTIF STAT2 width=15 seqs=462

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.77965 E= 1.1e-1108

-153	-89	-89	131
-10	68	-67	-21
144	-445	-12	-217
-592	7	164	-492
-1550	-519	-1550	192
-534	-477	-1550	191
-692	-319	-519	188
-1550	200	-1550	-234
64	-132	54	-79
-42	-37	13	45
-460	-477	-519	189
-692	-1550	-1550	192
-592	30	-577	141
-302	175	-519	-70
-246	131	-202	23

letter-probability matrix: alength= 4 w= 15 nsites= 462 E= 1.1e-1108

0.090909	0.127706	0.127706	0.653680
0.244589	0.378788	0.149351	0.227273
0.712121	0.010823	0.218615	0.058442
0.004329	0.248918	0.738095	0.008658
0.000000	0.006494	0.000000	0.993506
0.006494	0.008658	0.000000	0.984848
0.002165	0.025974	0.006494	0.965368
0.000000	0.948052	0.000000	0.051948
0.409091	0.095238	0.344156	0.151515
0.196970	0.183983	0.259740	0.359307
0.010823	0.008658	0.006494	0.974026
0.002165	0.000000	0.000000	0.997835
0.004329	0.292208	0.004329	0.699134
0.032468	0.798701	0.006494	0.162338
0.047619	0.586580	0.058442	0.307359

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.261 C 0.239 G 0.239 T 0.261

MOTIF TAL1 width = 8 sites = 101 llr = 829 E-value = 7.2e-002

BL MOTIF TAL1 width=8 seqs=101

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 9.34487 E= 7.2e-002

106	-1330	41	-91
14	31	80	-1330
194	-1330	-1330	-1330
-1330	-1330	207	-1330
194	-1330	-1330	-1330
-1330	-1330	22	147
191	-1330	-359	-1330
194	-1330	-1330	-1330

letter-probability matrix: alength= 4 w= 8 nsites= 101 E= 7.2e-002

0.544554	0.000000	0.316832	0.138614
0.287129	0.297030	0.415842	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.000000	1.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.000000	0.277228	0.722772
0.980198	0.000000	0.019802	0.000000
1.000000	0.000000	0.000000	0.000000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.208 C 0.292 G 0.292 T 0.208

MOTIF TBP width = 20 sites = 158 llr = 1524 E-value = 1.2e-120

BL MOTIF TBP width=20 seqs=158

log-odds matrix: alength= 4 w= 20 n= 40500 bayes= 8.23476 E= 1.2e-120

-123	95	-36	-79
-13	56	-17	-79
-4	12	31	-79
-58	47	40	-158
-58	28	54	-134
-13	81	-44	-134
-9	50	-24	-52
-87	15	52	-52
-134	78	-7	-58
-52	17	28	-29
-223	52	60	-113
-246	124	-253	9
-72	-77	-1395	175
-404	-172	-1395	211
60	-1395	-1395	171
-272	-1395	-1395	222
220	-394	-1395	-304
-187	-552	-1395	217
211	-320	-253	-346
-29	-32	85	-158

letter-probability matrix: alength= 4 w= 20 nsites= 158 E= 1.2e-120

0.088608	0.563291	0.227848	0.120253
0.189873	0.430380	0.259494	0.120253
0.202532	0.316456	0.360759	0.120253
0.139241	0.405063	0.386076	0.069620
0.139241	0.354430	0.424051	0.082278
0.189873	0.512658	0.215190	0.082278
0.196203	0.411392	0.246835	0.145570
0.113924	0.322785	0.417722	0.145570
0.082278	0.500000	0.278481	0.139241
0.145570	0.329114	0.354430	0.170886
0.044304	0.417722	0.443038	0.094937
0.037975	0.689873	0.050633	0.221519
0.126582	0.170886	0.000000	0.702532
0.012658	0.088608	0.000000	0.898734
0.316456	0.000000	0.000000	0.683544
0.031646	0.000000	0.000000	0.968354
0.955696	0.018987	0.000000	0.025316
0.056962	0.006329	0.000000	0.936709
0.898734	0.031646	0.050633	0.018987
0.170886	0.234177	0.525316	0.069620

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.215 C 0.285 G 0.285 T 0.215

MOTIF TCF12 width = 11 sites = 470 llr = 3850 E-value = 3.6e-514

BL MOTIF TCF12 width=11 seqs=470

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 7.22499 E= 3.6e-514

66	-49	19	-71
-34	67	13	-175
123	-171	-78	17
-88	-49	126	-1552
-1552	181	-1552	-1552
222	-1552	-1552	-1552
-1552	-198	170	-1552
-241	122	6	-1552
-1552	-1552	-1552	222
-1552	-1552	181	-1552
-296	-18	14	92

letter-probability matrix: alength= 4 w= 11 nsites= 470 E= 3.6e-514

0.340426	0.202128	0.325532	0.131915
0.170213	0.453191	0.312766	0.063830
0.504255	0.087234	0.165957	0.242553
0.117021	0.202128	0.680851	0.000000
0.000000	1.000000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.072340	0.927660	0.000000
0.040426	0.661702	0.297872	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	0.000000	1.000000	0.000000
0.027660	0.251064	0.314894	0.406383



MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.254 C 0.246 G 0.246 T 0.254

MOTIF TCF7L2 width = 11 sites = 473 llr = 4093 E-value = 2.6e-613

BL MOTIF TCF7L2 width=11 seqs=473

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 7.22208 E= 2.6e-613

43	-2	37	-139
145	-254	-35	-182
-391	86	104	-300
150	-428	-686	8
-205	-1553	-454	187
-300	168	-54	-432
198	-1553	-1553	-1553
193	-586	-328	-1553
192	-1553	-316	-459
-215	-428	191	-491
-39	-2	97	-166

letter-probability matrix: alength= 4 w= 11 nsites= 473 E= 2.6e-613

0.342495	0.243129	0.317125	0.097252
0.693446	0.042283	0.192389	0.071882
0.016913	0.446089	0.505285	0.031712
0.716702	0.012685	0.002114	0.268499
0.061311	0.000000	0.010571	0.928118
0.031712	0.786469	0.169133	0.012685
1.000000	0.000000	0.000000	0.000000
0.970402	0.004228	0.025370	0.000000
0.961945	0.000000	0.027484	0.010571
0.057082	0.012685	0.921776	0.008457
0.194503	0.243129	0.482030	0.080338

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.242 C 0.258 G 0.258 T 0.242

MOTIF TEAD1 width = 8 sites = 52 llr = 510 E-value = 5.7e-014

BL MOTIF TEAD1 width=8 seqs=52

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 10.9682 E= 5.7e-014

```
144 -1234 42 -1234
-1234 195 -1234 -1234
205 -1234 -1234 -1234
-1234 -1234 -1234 205
-1234 -1234 -1234 205
-1234 195 -1234 -1234
-1234 195 -1234 -1234
110 -1234 -1234 99
```

letter-probability matrix: alength= 4 w= 8 nsites= 52 E= 5.7e-014

```
0.653846 0.000000 0.346154 0.000000
0.000000 1.000000 0.000000 0.000000
1.000000 0.000000 0.000000 0.000000
0.000000 0.000000 0.000000 1.000000
0.000000 0.000000 0.000000 1.000000
0.000000 1.000000 0.000000 0.000000
0.000000 1.000000 0.000000 0.000000
0.519231 0.000000 0.000000 0.480769
```

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.301 C 0.199 G 0.199 T 0.301

MOTIF UA10 width = 15 sites = 268 llr = 4055 E-value = 3.4e-1009

BL MOTIF UA10 width=15 seqs=268

log-odds matrix: alength= 4 w= 15 n= 32336 bayes= 6.95582 E= 3.4e-1009

-288	-134	-273	150
-1471	233	-1471	-1471
172	-573	-1471	-1471
-1471	55	-573	123
166	-573	-315	-401
-533	228	-293	-633
-105	-215	-293	138
-353	-573	227	-475
-288	-293	220	-401
129	-315	-109	-101
-334	-373	227	-1471
167	-473	-373	-401
-23	-293	180	-353
168	-373	-315	-1471
159	-415	-141	-633

letter-probability matrix: alength= 4 w= 15 nsites= 268 E= 3.4e-1009

0.041045	0.078358	0.029851	0.850746
0.000000	1.000000	0.000000	0.000000
0.996269	0.003731	0.000000	0.000000
0.000000	0.291045	0.003731	0.705224
0.955224	0.003731	0.022388	0.018657
0.007463	0.962687	0.026119	0.003731
0.145522	0.044776	0.026119	0.783582
0.026119	0.003731	0.958955	0.011194
0.041045	0.026119	0.914179	0.018657
0.735075	0.022388	0.093284	0.149254
0.029851	0.014925	0.955224	0.000000
0.958955	0.007463	0.014925	0.018657
0.257463	0.026119	0.690299	0.026119
0.962687	0.014925	0.022388	0.000000
0.910448	0.011194	0.074627	0.003731

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.280 C 0.220 G 0.220 T 0.280

MOTIF UA11 width = 18 sites = 302 llr = 4424 E-value = 2.6e-1033

BL MOTIF UA11 width=18 seqs=302

log-odds matrix: alength= 4 w= 18 n= 41500 bayes= 6.47799 E= 2.6e-1033

-25	-235	155	-188
-194	-247	199	-440
-145	179	-447	-112
-482	-1	-405	144
-540	-173	-605	172
-1488	-505	-288	178
-194	83	46	-25
-640	208	-373	-240
-482	209	-447	-260
176	-1488	-205	-1488
-1488	217	-1488	-440
181	-1488	-405	-640
-294	-17	-197	135
-232	-324	-347	168
-482	193	-101	-270
50	1	-180	18
-208	-97	-247	148
-382	41	-188	117

letter-probability matrix: alength= 4 w= 18 nsites= 302 E= 2.6e-1033

0.235099	0.043046	0.645695	0.076159
0.072848	0.039735	0.874172	0.013245
0.102649	0.758278	0.009934	0.129139
0.009934	0.218543	0.013245	0.758278
0.006623	0.066225	0.003311	0.923841
0.000000	0.006623	0.029801	0.963576
0.072848	0.390728	0.301325	0.235099
0.003311	0.927152	0.016556	0.052980
0.009934	0.933775	0.009934	0.046358
0.947020	0.000000	0.052980	0.000000
0.000000	0.986755	0.000000	0.013245
0.983444	0.000000	0.013245	0.003311
0.036424	0.195364	0.056291	0.711921
0.056291	0.023179	0.019868	0.900662
0.009934	0.837748	0.109272	0.043046
0.397351	0.221854	0.062914	0.317881
0.066225	0.112583	0.039735	0.781457
0.019868	0.291391	0.059603	0.629139

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.240 C 0.260 G 0.260 T 0.240

MOTIF UA12 width = 8 sites = 122 llr = 996 E-value = 9.1e-015

BL MOTIF UA12 width=8 seqs=122

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 9.85953 E= 9.1e-015

-1357	195	-1357	-1357
115	-1357	-1357	96
-1357	-1357	184	-170
-1357	178	-128	-1357
37	110	-1357	-87
-1357	195	-1357	-1357
8	-1357	-1357	163
-1357	-1357	195	-1357

letter-probability matrix: alength= 4 w= 8 nsites= 122 E= 9.1e-015

0.000000	1.000000	0.000000	0.000000
0.532787	0.000000	0.000000	0.467213
0.000000	0.000000	0.926230	0.073770
0.000000	0.893443	0.106557	0.000000
0.311475	0.557377	0.000000	0.131148
0.000000	1.000000	0.000000	0.000000
0.254098	0.000000	0.000000	0.745902
0.000000	0.000000	1.000000	0.000000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.184 C 0.316 G 0.316 T 0.184

MOTIF UA1 width = 15 sites = 451 llr = 4716 E-value = 2.2e-898

BL MOTIF UA1 width=15 seqs=451

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.24366 E= 2.2e-898

-24	12	-62	68
-379	-120	-283	213
-42	137	-346	-357
-357	-199	-416	227
-1546	166	-1546	-1546
-291	-1546	163	-1546
-637	166	-1546	-1546
-1546	-1546	166	-1546
207	-230	-137	-220
-405	-246	121	10
198	-283	-97	-142
-9	-16	-57	85
-437	22	-211	158
-70	-71	-143	165
-137	10	53	-47

letter-probability matrix: alength= 4 w= 15 nsites= 451 E= 2.2e-898

0.155211	0.343681	0.206208	0.294900
0.013304	0.137472	0.044346	0.804878
0.137472	0.818182	0.028825	0.015521
0.015521	0.079823	0.017738	0.886918
0.000000	1.000000	0.000000	0.000000
0.024390	0.000000	0.975610	0.000000
0.002217	0.997783	0.000000	0.000000
0.000000	0.000000	1.000000	0.000000
0.773836	0.064302	0.121951	0.039911
0.011086	0.057650	0.733925	0.197339
0.725055	0.044346	0.161863	0.068736
0.172949	0.283814	0.212860	0.330377
0.008869	0.368071	0.073171	0.549889
0.113082	0.192905	0.117517	0.576497
0.070953	0.339246	0.456763	0.133038

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.187 C 0.313 G 0.313 T 0.187

MOTIF UA2 width = 13 sites = 496 llr = 3743 E-value = 6.1e-438

BL MOTIF UA2 width=13 seqs=496

log-odds matrix: alength= 4 w= 13 n= 44000 bayes= 8.18762 E= 6.1e-438

-89	28	-8	25
18	-51	37	-19
-95	39	22	-53
-56	124	-211	-158
-70	3	-337	152
-201	-1560	157	-295
-653	39	-1560	166
-1560	165	-1560	-372
173	-70	-158	-121
99	18	-22	-495
-1560	-1560	-728	242
-453	162	-1560	-283
168	-119	-137	-36

letter-probability matrix: alength= 4 w= 13 nsites= 496 E= 6.1e-438

0.100806	0.381048	0.296371	0.221774
0.211694	0.219758	0.405242	0.163306
0.096774	0.409274	0.364919	0.129032
0.127016	0.737903	0.072581	0.062500
0.114919	0.320565	0.030242	0.534274
0.046371	0.000000	0.929435	0.024194
0.002016	0.409274	0.000000	0.588710
0.000000	0.985887	0.000000	0.014113
0.620968	0.193548	0.104839	0.080645
0.370968	0.354839	0.268145	0.006048
0.000000	0.000000	0.002016	0.997984
0.008065	0.965726	0.000000	0.026210
0.596774	0.137097	0.120968	0.145161

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.140 C 0.360 G 0.360 T 0.140

MOTIF UA3 width = 15 sites = 500 llr = 3184 E-value = 1.1e-184

BL MOTIF UA3 width=15 seqs=500

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 6.40939 E= 1.1e-184

-123	80	-68	-67
36	12	-35	8
54	-28	34	-161
170	-28	-72	-222
-313	-590	144	-513
212	12	-1561	-1561
-1561	147	-1561	-1561
-1561	147	-1561	-613
-149	140	-1561	-1561
-1561	86	-549	128
-13	17	-136	123
10	-3	4	-13
-40	67	-79	-30
-64	62	-72	-2
-15	50	-57	-18

letter-probability matrix: alength= 4 w= 15 nsites= 500 E= 1.1e-184

0.060000	0.628000	0.224000	0.088000
0.180000	0.390000	0.282000	0.148000
0.204000	0.296000	0.454000	0.046000
0.456000	0.296000	0.218000	0.030000
0.016000	0.006000	0.974000	0.004000
0.608000	0.392000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
0.000000	0.998000	0.000000	0.002000
0.050000	0.950000	0.000000	0.000000
0.000000	0.652000	0.008000	0.340000
0.128000	0.404000	0.140000	0.328000
0.150000	0.352000	0.370000	0.128000
0.106000	0.572000	0.208000	0.114000
0.090000	0.554000	0.218000	0.138000
0.126000	0.508000	0.242000	0.124000



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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.180 C 0.320 G 0.320 T 0.180

MOTIF UA4 width = 15 sites = 206 llr = 2496 E-value = 1.2e-425

BL MOTIF UA4 width=15 seqs=206

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.22131 E= 1.2e-425

-363	161	-1433	-421
-1433	164	-1433	-1433
245	-446	-1433	-1433
-1433	-504	-1433	246
-204	82	-43	-21
-421	-446	-1433	244
-1433	-346	-1433	243
-89	-346	50	123
72	-195	82	-163
90	-95	-109	96
-8	-287	-100	180
90	-55	13	-89
100	11	-187	21
-363	-1433	122	40
-321	-446	159	-521

letter-probability matrix: alength= 4 w= 15 nsites= 206 E= 1.2e-425

0.014563	0.975728	0.000000	0.009709
0.000000	1.000000	0.000000	0.000000
0.985437	0.014563	0.000000	0.000000
0.000000	0.009709	0.000000	0.990291
0.043689	0.563107	0.237864	0.155340
0.009709	0.014563	0.000000	0.975728
0.000000	0.029126	0.000000	0.970874
0.097087	0.029126	0.451456	0.422330
0.296117	0.082524	0.563107	0.058252
0.334951	0.165049	0.150485	0.349515
0.169903	0.043689	0.160194	0.626214
0.334951	0.218447	0.349515	0.097087
0.359223	0.344660	0.087379	0.208738
0.014563	0.000000	0.747573	0.237864
0.019417	0.014563	0.961165	0.004854

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.180 C 0.320 G 0.320 T 0.180

MOTIF UA5 width = 15 sites = 121 llr = 1294 E-value = 8.4e-130

BL MOTIF UA5 width=15 seqs=121

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 9.7523 E= 8.4e-130

136	-247	-11	1
-1356	153	-427	-164
-244	-1356	-269	235
-1356	-1356	-427	245
-1356	163	-1356	-444
-1356	157	-1356	-186
-1356	-1356	161	-286
-444	158	-527	-286
-1356	163	-1356	-444
1	126	-1356	-186
-64	-327	85	60
-44	-19	40	-12
126	1	-169	-27
-99	43	-3	-12
-127	45	-95	84

letter-probability matrix: alength= 4 w= 15 nsites= 121 E= 8.4e-130

0.462810	0.057851	0.297521	0.181818
0.000000	0.925620	0.016529	0.057851
0.033058	0.000000	0.049587	0.917355
0.000000	0.000000	0.016529	0.983471
0.000000	0.991736	0.000000	0.008264
0.000000	0.950413	0.000000	0.049587
0.000000	0.000000	0.975207	0.024793
0.008264	0.958678	0.008264	0.024793
0.000000	0.991736	0.000000	0.008264
0.181818	0.768595	0.000000	0.049587
0.115702	0.033058	0.578512	0.272727
0.132231	0.280992	0.421488	0.165289
0.429752	0.322314	0.099174	0.148760
0.090909	0.429752	0.314050	0.165289
0.074380	0.438017	0.165289	0.322314

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.195 C 0.305 G 0.305 T 0.195

MOTIF UA6 width = 15 sites = 70 llr = 729 E-value = 1.1e-033

BL MOTIF UA6 width=15 seqs=70

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.52519 E= 1.1e-033

14	63	-51	-96
188	-283	-72	-177
62	-342	114	-1277
-60	44	-210	99
-45	101	-61	-218
-1277	-1277	171	-1277
234	-1277	-441	-1277
-45	-342	97	23
-218	120	-51	-218
-7	-125	104	-177
-377	167	-441	-1277
-7	131	-242	-1277
-1277	-1277	171	-1277
230	-342	-441	-1277
-145	-342	146	-177

letter-probability matrix: alength= 4 w= 15 nsites= 70 E= 1.1e-033

0.214286	0.471429	0.214286	0.100000
0.714286	0.042857	0.185714	0.057143
0.300000	0.028571	0.671429	0.000000
0.128571	0.414286	0.071429	0.385714
0.142857	0.614286	0.200000	0.042857
0.000000	0.000000	1.000000	0.000000
0.985714	0.000000	0.014286	0.000000
0.142857	0.028571	0.600000	0.228571
0.042857	0.700000	0.214286	0.042857
0.185714	0.128571	0.628571	0.057143
0.014286	0.971429	0.014286	0.000000
0.185714	0.757143	0.057143	0.000000
0.000000	0.000000	1.000000	0.000000
0.957143	0.028571	0.014286	0.000000
0.071429	0.028571	0.842857	0.057143

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.192 C 0.308 G 0.308 T 0.192

MOTIF UA7 width = 21 sites = 178 llr = 1985 E-value = 1.9e-260

BL MOTIF UA7 width=21 seqs=178

log-odds matrix: alength= 4 w= 21 n= 40000 bayes= 8.84496 E= 1.9e-260

-14	-22	73	-192
-192	-5	81	-77
231	-378	-346	-1412
237	-577	-1412	-509
216	-378	-132	-1412
198	-378	-102	-151
-309	139	-146	-177
-139	145	-197	-509
-128	95	-577	74
-1412	-1412	169	-509
-409	-378	161	-309
175	-57	-132	-309
-23	10	58	-209
27	33	-297	84
-28	-146	108	-128
-192	-87	123	-177
135	-139	-19	-63
-14	-232	65	55
30	-73	-22	72
49	-5	-119	64
-19	3	-57	69

letter-probability matrix: alength= 4 w= 21 nsites= 178 E= 1.9e-260

0.174157	0.264045	0.511236	0.050562
0.050562	0.297753	0.539326	0.112360
0.949438	0.022472	0.028090	0.000000
0.988764	0.005618	0.000000	0.005618
0.853933	0.022472	0.123596	0.000000
0.758427	0.022472	0.151685	0.067416
0.022472	0.808989	0.112360	0.056180
0.073034	0.842697	0.078652	0.005618
0.078652	0.595506	0.005618	0.320225
0.000000	0.000000	0.994382	0.005618
0.011236	0.022472	0.943820	0.022472
0.646067	0.207865	0.123596	0.022472
0.162921	0.331461	0.460674	0.044944
0.230337	0.387640	0.039326	0.342697
0.157303	0.112360	0.651685	0.078652
0.050562	0.168539	0.724719	0.056180
0.488764	0.117978	0.269663	0.123596
0.174157	0.061798	0.483146	0.280899
0.235955	0.185393	0.264045	0.314607
0.269663	0.297753	0.134831	0.297753
0.168539	0.314607	0.207865	0.308989

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.272 C 0.228 G 0.228 T 0.272

MOTIF UA8 width = 14 sites = 255 llr = 2073 E-value = 5.3e-131

BL MOTIF UA8 width=14 seqs=255

log-odds matrix: alength= 4 w= 14 n= 43500 bayes= 9.14691 E= 5.3e-131

-26	-1464	-140	133
-166	-1464	199	-512
183	-1464	-1464	-295
-153	31	7	50
96	-305	41	-95
-9	-19	27	-1
77	-116	-73	13
73	-177	-31	13
61	-91	5	-26
-21	109	5	-266
-1464	213	-1464	-1464
187	-1464	-1464	-611
-1464	-240	207	-1464
112	-134	14	-203

letter-probability matrix: alength= 4 w= 14 nsites= 255 E= 5.3e-131

0.227451	0.000000	0.086275	0.686275
0.086275	0.000000	0.905882	0.007843
0.964706	0.000000	0.000000	0.035294
0.094118	0.282353	0.239216	0.384314
0.529412	0.027451	0.301961	0.141176
0.254902	0.200000	0.274510	0.270588
0.462745	0.101961	0.137255	0.298039
0.450980	0.066667	0.184314	0.298039
0.415686	0.121569	0.235294	0.227451
0.235294	0.486275	0.235294	0.043137
0.000000	1.000000	0.000000	0.000000
0.996078	0.000000	0.000000	0.003922
0.000000	0.043137	0.956863	0.000000
0.592157	0.090196	0.250980	0.066667

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.272 C 0.228 G 0.228 T 0.272

MOTIF UA9 width = 11 sites = 329 llr = 2537 E-value = 8.9e-180

BL MOTIF UA9 width=11 seqs=329

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 8.0582 E= 8.9e-180

-33	-102	56	30
-81	178	-253	-368
71	6	-253	4
-490	212	-1501	-1501
154	-1501	-1501	-40
-648	-423	211	-1501
-1501	169	-77	-106
136	-1501	-23	-131
-248	-1501	176	-63
-1501	-291	197	-190
41	-30	18	-48

letter-probability matrix: alength= 4 w= 11 nsites= 329 E= 8.9e-180

0.215805	0.112462	0.337386	0.334347
0.155015	0.784195	0.039514	0.021277
0.443769	0.237082	0.039514	0.279635
0.009119	0.990881	0.000000	0.000000
0.793313	0.000000	0.000000	0.206687
0.003040	0.012158	0.984802	0.000000
0.000000	0.735562	0.133739	0.130699
0.696049	0.000000	0.194529	0.109422
0.048632	0.000000	0.775076	0.176292
0.000000	0.030395	0.896657	0.072948
0.361702	0.185410	0.258359	0.194529

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.178 C 0.322 G 0.322 T 0.178

MOTIF USF width = 11 sites = 500 llr = 4948 E-value = 4.0e-967

BL MOTIF USF width=11 seqs=500

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 8.48091 E= 4.0e-967

-123	6	73	-172
9	-14	48	-139
-148	43	-150	113
-1561	164	-1561	-1561
247	-633	-574	-648
-1561	143	-574	-48
-448	-574	162	-1561
-1561	-1561	-1561	249
-1561	-1561	164	-1561
232	-263	-242	-1561
-1561	139	-374	-43

letter-probability matrix: alength= 4 w= 11 nsites= 500 E= 4.0e-967

0.076000	0.336000	0.534000	0.054000
0.190000	0.292000	0.450000	0.068000
0.064000	0.432000	0.114000	0.390000
0.000000	1.000000	0.000000	0.000000
0.988000	0.004000	0.006000	0.002000
0.000000	0.866000	0.006000	0.128000
0.008000	0.006000	0.986000	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	0.000000	1.000000	0.000000
0.888000	0.052000	0.060000	0.000000
0.000000	0.844000	0.024000	0.132000

MEME version 4.6.0 (Release date: Thu Jan 20 14:06:48 PST 2011)

ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.270 C 0.230 G 0.230 T 0.270

MOTIF v-JUN width = 15 sites = 329 llr = 3669 E-value = 3.2e-662

BL MOTIF v-JUN width=15 seqs=329

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.87486 E= 3.2e-662

11	-1	39	-59
27	-82	49	-28
-10	-38	68	-41
49	-134	115	-389
141	-1501	30	-1501
-1501	-1501	-1501	189
-1501	-1501	212	-1501
189	-1501	-1501	-1501
-1501	160	-243	-5
-647	-166	198	-389
-1501	-172	-1501	178
-61	183	-624	-1501
189	-1501	-1501	-1501
-489	4	-120	128
-28	112	-63	-105

letter-probability matrix: alength= 4 w= 15 nsites= 329 E= 3.2e-662

0.291793	0.227964	0.300912	0.179331
0.325228	0.130699	0.322188	0.221884
0.252280	0.176292	0.367781	0.203647
0.379939	0.091185	0.510638	0.018237
0.717325	0.000000	0.282675	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	0.000000	1.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.696049	0.042553	0.261398
0.003040	0.072948	0.905775	0.018237
0.000000	0.069909	0.000000	0.930091
0.176292	0.820669	0.003040	0.000000
1.000000	0.000000	0.000000	0.000000
0.009119	0.237082	0.100304	0.653495
0.221884	0.498480	0.148936	0.130699



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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.290 C 0.210 G 0.210 T 0.290

MOTIF v-Maf width = 17 sites = 500 llr = 5894 E-value = 2.3e-1362

BL MOTIF v-Maf width=17 seqs=500

log-odds matrix: alength= 4 w= 17 n= 42000 bayes= 6.37504 E= 2.3e-1362

-6	-11	-71	46
-118	-154	-29	111
-254	-32	184	-327
-63	168	-390	-118
-132	-113	-143	129
-43	-271	161	-140
132	-158	-129	-130
-182	71	140	-372
-1561	-1561	-671	178
-386	222	-1561	-1561
178	-1561	-1561	-1561
-1561	-1561	214	-190
-1561	225	-671	-1561
168	-1561	-239	-327
43	-39	-22	-12
56	-207	-254	74
22	-219	-339	104

letter-probability matrix: alength= 4 w= 17 nsites= 500 E= 2.3e-1362

0.278000	0.194000	0.128000	0.400000
0.128000	0.072000	0.172000	0.628000
0.050000	0.168000	0.752000	0.030000
0.188000	0.670000	0.014000	0.128000
0.116000	0.096000	0.078000	0.710000
0.216000	0.032000	0.642000	0.110000
0.726000	0.070000	0.086000	0.118000
0.082000	0.344000	0.552000	0.022000
0.000000	0.000000	0.002000	0.998000
0.020000	0.980000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.000000	0.922000	0.078000
0.000000	0.998000	0.002000	0.000000
0.930000	0.000000	0.040000	0.030000
0.392000	0.160000	0.180000	0.268000
0.428000	0.050000	0.036000	0.486000
0.338000	0.046000	0.020000	0.596000

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.191 C 0.309 G 0.309 T 0.191

MOTIF YY1 width = 15 sites = 479 llr = 5078 E-value = 3.2e-1026

BL MOTIF YY1 width=15 seqs=479

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 8.46435 E= 3.2e-1026

-112	-5	61	-43
-63	-58	84	-71
-17	-5	24	-19
-23	22	25	-79
-156	-263	139	-134
-181	125	-143	-99
-71	105	-67	-193
-271	-1555	162	-334
-1555	169	-1555	-1555
-1555	169	-1555	-1555
238	-521	-721	-1555
-1555	-1555	-1555	239
-193	70	-28	3
-147	-312	-421	220
-1555	-189	-1555	227

letter-probability matrix: alength= 4 w= 15 nsites= 479 E= 3.2e-1026

0.087683	0.298539	0.471816	0.141962
0.123173	0.206681	0.553236	0.116910
0.169102	0.298539	0.365344	0.167015
0.162839	0.359081	0.367432	0.110647
0.064718	0.050104	0.810021	0.075157
0.054280	0.734864	0.114823	0.096033
0.116910	0.638831	0.194154	0.050104
0.029228	0.000000	0.951983	0.018789
0.000000	1.000000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
0.989562	0.008351	0.002088	0.000000
0.000000	0.000000	0.000000	1.000000
0.050104	0.501044	0.254697	0.194154
0.068894	0.035491	0.016701	0.878914
0.000000	0.083507	0.000000	0.916493

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.236 C 0.264 G 0.264 T 0.236

MOTIF ZEB1 width = 8 sites = 426 llr = 3405 E-value = 1.7e-392

BL MOTIF ZEB1 width=8 seqs=426

log-odds matrix: alength= 4 w= 8 n= 46500 bayes= 8.40901 E= 1.7e-392

86	-51	41	-275
-1538	192	-1538	-1538
208	-1538	-1538	-1538
-1538	145	-40	-153
-1538	192	-1538	-1538
-1538	-1538	-1538	208
-1538	-1538	192	-1538
-507	6	98	-26

letter-probability matrix: alength= 4 w= 8 nsites= 426 E= 1.7e-392

0.429577	0.185446	0.349765	0.035211
0.000000	1.000000	0.000000	0.000000
1.000000	0.000000	0.000000	0.000000
0.000000	0.718310	0.199531	0.082160
0.000000	1.000000	0.000000	0.000000
0.000000	0.000000	0.000000	1.000000
0.000000	0.000000	1.000000	0.000000
0.007042	0.274648	0.521127	0.197183

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.196 C 0.304 G 0.304 T 0.196

MOTIF ZNF143 width = 15 sites = 43 llr = 486 E-value = 8.8e-017

BL MOTIF ZNF143 width=15 seqs=43

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 10.295 E= 8.8e-017

-308	154	-270	-208
51	-370	115	-308
62	-138	46	-27
-108	-370	38	131
-1207	-1207	172	-1207
-208	125	-90	-149
138	29	-212	-208
-1207	-54	-1207	201
-208	-1207	129	9
-208	150	-171	-1207
-308	-12	-370	178
-1207	-370	169	-1207
-1207	-1207	172	-1207
-149	-1207	162	-1207
217	-1207	-138	-1207

letter-probability matrix: alength= 4 w= 15 nsites= 43 E= 8.8e-017

0.023256	0.883721	0.046512	0.046512
0.279070	0.023256	0.674419	0.023256
0.302326	0.116279	0.418605	0.162791
0.093023	0.023256	0.395349	0.488372
0.000000	0.000000	1.000000	0.000000
0.046512	0.720930	0.162791	0.069767
0.511628	0.372093	0.069767	0.046512
0.000000	0.209302	0.000000	0.790698
0.046512	0.000000	0.744186	0.209302
0.046512	0.860465	0.093023	0.000000
0.023256	0.279070	0.023256	0.674419
0.000000	0.023256	0.976744	0.000000
0.000000	0.000000	1.000000	0.000000
0.069767	0.000000	0.930233	0.000000
0.883721	0.000000	0.116279	0.000000

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.194 C 0.306 G 0.306 T 0.194

MOTIF ZNF143-ext width = 21 sites = 160 llr = 2832 E-value = 2.6e-673

BL MOTIF ZNF143-ext width=21 seqs=160

log-odds matrix: alength= 4 w= 21 n= 40000 bayes= 8.21247 E= 2.6e-673

80	-329	100	-337
155	-403	41	-496
234	-403	-1397	-1397
-496	170	-1397	-1397
-496	-329	-1397	231
222	-244	-329	-496
-1397	168	-461	-496
218	-303	-229	-337
131	-144	-136	56
-96	-15	-103	129
-296	-229	-361	219
-396	163	-1397	-215
-1397	171	-1397	-1397
-1397	171	-1397	-1397
201	-461	-57	-1397
-96	-161	125	-137
102	32	-57	-337
191	-403	-29	-1397
-126	-303	67	102
-137	-80	120	-196
-337	160	-329	-296

letter-probability matrix: alength= 4 w= 21 nsites= 160 E= 2.6e-673

0.337500	0.031250	0.612500	0.018750
0.568750	0.018750	0.406250	0.006250
0.981250	0.018750	0.000000	0.000000
0.006250	0.993750	0.000000	0.000000
0.006250	0.031250	0.000000	0.962500
0.906250	0.056250	0.031250	0.006250
0.000000	0.981250	0.012500	0.006250
0.881250	0.037500	0.062500	0.018750
0.481250	0.112500	0.118750	0.287500
0.100000	0.275000	0.150000	0.475000
0.025000	0.062500	0.025000	0.887500
0.012500	0.943750	0.000000	0.043750
0.000000	1.000000	0.000000	0.000000
0.000000	1.000000	0.000000	0.000000
0.781250	0.012500	0.206250	0.000000
0.100000	0.100000	0.725000	0.075000
0.393750	0.381250	0.206250	0.018750
0.731250	0.018750	0.250000	0.000000
0.081250	0.037500	0.487500	0.393750
0.075000	0.175000	0.700000	0.050000
0.018750	0.925000	0.031250	0.025000

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.188 C 0.312 G 0.312 T 0.188

MOTIF ZNF263 width = 15 sites = 461 llr = 4293 E-value = 1.0e-701

BL MOTIF ZNF263 width=15 seqs=461

log-odds matrix: alength= 4 w= 15 n= 43000 bayes= 7.16773 E= 1.0e-701

-135	101	-119	-22
-60	8	-168	126
-91	106	-83	-135
-31	-38	-73	116
-191	54	-66	66
24	93	-106	-253
-311	90	5	-135
-543	-1549	-1549	241
-1549	136	-66	-1549
-253	162	-1549	-443
-1549	-617	-717	240
-1549	165	-617	-363
-643	165	-717	-363
-235	117	-517	41
-46	50	-165	78

letter-probability matrix: alength= 4 w= 15 nsites= 461 E= 1.0e-701

0.073753	0.629067	0.136659	0.160521
0.123644	0.329718	0.097614	0.449024
0.099783	0.650759	0.175705	0.073753
0.151844	0.240781	0.188720	0.418655
0.049892	0.455531	0.197397	0.297180
0.221258	0.596529	0.149675	0.032538
0.021692	0.581345	0.323210	0.073753
0.004338	0.000000	0.000000	0.995662
0.000000	0.802603	0.197397	0.000000
0.032538	0.958785	0.000000	0.008677
0.000000	0.004338	0.002169	0.993492
0.000000	0.980477	0.004338	0.015184
0.002169	0.980477	0.002169	0.015184
0.036876	0.704989	0.008677	0.249458
0.136659	0.442516	0.099783	0.321041

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ALPHABET= ACGT

strands: + -

Background letter frequencies (from dataset with add-one prior applied):  
A 0.192 C 0.308 G 0.308 T 0.192

MOTIF ZNF281 width = 11 sites = 122 llr = 1050 E-value = 3.8e-028

BL MOTIF ZNF281 width=11 seqs=122

log-odds matrix: alength= 4 w= 11 n= 45000 bayes= 9.81218 E= 3.8e-028

-30	-1357	141	-296
-46	-1357	147	-454
62	-1357	112	-255
-196	-1357	162	-1357
-1357	-1357	170	-1357
162	-23	-1357	-38
-138	-1357	145	-123
-1357	-1357	170	-1357
-38	-523	141	-296
-64	-1357	151	-1357
134	-28	-33	-355

letter-probability matrix: alength= 4 w= 11 nsites= 122 E= 3.8e-028

0.155738	0.000000	0.819672	0.024590
0.139344	0.000000	0.852459	0.008197
0.295082	0.000000	0.672131	0.032787
0.049180	0.000000	0.950820	0.000000
0.000000	0.000000	1.000000	0.000000
0.590164	0.262295	0.000000	0.147541
0.073770	0.000000	0.844262	0.081967
0.000000	0.000000	1.000000	0.000000
0.147541	0.008197	0.819672	0.024590
0.122951	0.000000	0.877049	0.000000
0.483607	0.254098	0.245902	0.016393