

Motifs name	number of BM (3000bp)	BM (location<200)	percent in 200bp	p-value
V\$AP2_Q6_01	2	2	100%	0.004444
V\$ELK1_02	56	47	84%	1.11E-15
V\$NRF2_01	81	66	81%	1.11E-15
V\$GABP_B	147	114	78%	2.22E-15
V\$USF_Q6_01	44	34	77%	6.66E-16
V\$USF_01	79	61	77%	8.88E-16
V\$TATA_01	146	110	75%	2E-15
V\$E2F1_Q6	4	3	75%	0.001126
V\$NFY_01	77	57	74%	1.55E-15
V\$NRF1_Q6	194	140	72%	2.44E-15
V\$STRA13_01	136	98	72%	2E-15
V\$NFY_Q6_01	32	23	72%	6.66E-16
V\$CREB_01	158	113	72%	2.66E-15
V\$SREBP1_01	166	118	71%	2.44E-15
V\$CREB_Q4	240	166	69%	3.33E-15
V\$CREBATF_Q6	111	76	68%	2E-15
V\$CREBP1CJUN_0	339	232	68%	5.55E-15
V\$ARNT_02	161	110	68%	2.22E-15
V\$MYCMAX_03	50	34	68%	8.88E-16
V\$KROX_Q6	28	19	68%	4.44E-16
V\$CREB_Q4_01	91	61	67%	1.55E-15
V\$CREBP1_Q2	289	193	67%	4E-15
V\$ARNT_01	30	20	67%	4.44E-16
V\$CREB_Q2_01	222	143	64%	3.77E-15
V\$CREBP1_01	375	240	64%	6.44E-15
V\$ELK1_01	77	49	64%	1.55E-15
V\$ATF_B	238	151	63%	3.55E-15
V\$E4F1_Q6	228	144	63%	3.55E-15
V\$NFY_C	238	148	62%	3.55E-15
V\$ALPHACP1_01	209	129	62%	3.11E-15
V\$ATF1_Q6	179	109	61%	2.66E-15
V\$USF_Q6	52	31	60%	1.11E-15
V\$ATF3_Q6	239	140	59%	3.33E-15
V\$ATF_01	157	91	58%	2.89E-15
V\$EGR3_01	79	44	56%	8.88E-16
V\$E2F1_Q3_01	20	11	55%	1.1E-08
V\$ATF4_Q2	159	87	55%	2.44E-15
V\$CREB_Q2	143	77	54%	2.44E-15
V\$CREB_Q2	94	50	53%	1.55E-15
V\$STAT1_01	79	41	52%	8.88E-16
V\$ATF6_01	99	50	51%	1.55E-15
V\$STAT3_01	103	52	50%	1.78E-15
V\$USF_Q2	4	2	50%	0.024356
V\$ZF5_B	123	61	50%	1.78E-15
V\$NGFIC_01	109	54	50%	2E-15
V\$TAXCREB_01	87	43	49%	1.11E-15
V\$TEL2_Q6	90	44	49%	1.55E-15
V\$PAX5_Q2	33	16	48%	5.92E-11
V\$PAX4_Q1	31	15	48%	2.45E-10
V\$E2F_Q4_01	29	14	48%	1.02E-09

V\$E2F_01	131	63	48%	2.44E-15
V\$MIF1_01	138	66	48%	2E-15
V\$TATA_C	141	67	48%	2E-15
V\$NERF_Q2	80	38	48%	1.33E-15
V\$NMYC_01	19	9	47%	1.3E-06
V\$E2F_Q3	98	46	47%	1.55E-15
V\$E2F_Q3_01	32	15	47%	4.32E-10
V\$RFX1_02	235	110	47%	3.77E-15
V\$ETS1_B	90	42	47%	1.55E-15
V\$E2F1DP1RB_01	129	60	47%	2.22E-15
V\$AHRARNT_02	54	25	46%	0
V\$AHR_Q5	78	36	46%	1.33E-15
V\$E2F_02	104	48	46%	1.78E-15
V\$E2F_Q6_01	42	19	45%	4.49E-12
V\$E2F4DP2_01	166	75	45%	2.44E-15
V\$MAX_01	31	14	45%	3.06E-09
V\$CP2_02	20	9	45%	2.22E-06
V\$E2F4DP1_01	109	49	45%	2E-15
V\$MAF_Q6	69	31	45%	1.33E-15
V\$AP2_Q6	58	26	45%	4.44E-16
V\$CMYB_01	76	34	45%	1.11E-15
V\$E2F1DP2_01	174	77	44%	3.11E-15
V\$EGR2_01	100	44	44%	1.78E-15
V\$E2F_03	69	30	43%	1.33E-15
V\$YY1_Q6	171	74	43%	2.66E-15
V\$E2F1DP1_01	140	60	43%	1.78E-15
V\$TCF1P_Q6	85	36	42%	1.55E-15
V\$SP3_Q3	78	33	42%	1.33E-15
V\$EGR_Q6	24	10	42%	1.42E-06
V\$NFMUE1_Q6	149	62	42%	2.22E-15
V\$EGR1_01	94	39	41%	1.55E-15
V\$RFX1_01	156	64	41%	2.89E-15
V\$E2F_Q4	61	25	41%	3.12E-14
V\$STAT_01	81	33	41%	1.11E-15
V\$SPZ1_01	37	15	41%	5.19E-09
V\$YY1_02	168	68	40%	2.66E-15
V\$MYB_Q3	25	10	40%	2.23E-06
V\$PAX5_01	15	6	40%	0.000259
V\$PAX4_03	10	4	40%	0.002992
V\$NFY_Q6	5	2	40%	0.03881
V\$MZF1_02	101	40	40%	1.78E-15
V\$P300_01	33	13	39%	8.24E-08
V\$TAXCREB_02	84	33	39%	1.33E-15
V\$TFIII_Q6	140	55	39%	1.78E-15
V\$EFC_Q6	107	42	39%	2E-15
V\$YY1_01	95	37	39%	1.33E-15
V\$PAX2_01	62	24	39%	4.68E-13
V\$ELF1_Q6	75	29	39%	2.22E-16
V\$MYCMAX_01	57	22	39%	4.67E-12
V\$RFX_Q6	78	30	38%	6.66E-16
V\$MYCMAX_B	13	5	38%	0.001076
V\$SRF_Q4	34	13	38%	1.25E-07

V\$MTF1_Q4	79	30	38%	2.22E-16
V\$PAX3_01	116	44	38%	2E-15
V\$ETS2_B	77	29	38%	2.66E-15
V\$IRF_Q6	178	67	38%	3.11E-15
V\$HIF1_Q3	83	31	37%	6.66E-16
V\$IRF_Q6_01	116	43	37%	2E-15
V\$XBP1_01	57	21	37%	4.03E-11
V\$HTF_01	109	40	37%	2E-15
V\$E2F1_Q4	102	37	36%	2.22E-15
V\$AR_Q6	14	5	36%	0.001582
V\$WHN_B	43	15	35%	5.72E-08
V\$VDR_Q3	52	18	35%	3.17E-09
V\$LXR_DR4_Q3	96	33	34%	2.22E-16
V\$CEBPDELTA_Q6	155	53	34%	1.78E-15
V\$CDPCR1_01	79	27	34%	5.7E-13
V\$CACCCBINDING	41	14	34%	2.15E-07
V\$AHR_01	85	29	34%	8.34E-14
V\$COMP1_01	85	29	34%	8.34E-14
V\$DEC_Q1	65	22	34%	9.63E-11
V\$HNF1_Q6	125	42	34%	1.78E-15
V\$PAX3_B	87	29	33%	1.67E-13
V\$GCM_Q2	60	20	33%	9.22E-10
V\$CEBPA_01	45	15	33%	1.15E-07
V\$MYOD_Q6_01	39	13	33%	7.98E-07
V\$AP1_Q6	9	3	33%	0.018347
V\$NFAT_Q4_01	3	1	33%	0.186963
V\$GF11_01	157	52	33%	2.89E-15
V\$RREB1_01	91	30	33%	8.9E-14
V\$SRF_Q5_01	68	22	32%	2.61E-10
V\$PPAR_DR1_Q2	75	24	32%	5.3E-11
V\$ER_Q6_02	25	8	32%	0.00015
V\$OCT_Q6	307	98	32%	4.66E-15
V\$LXR_Q3	44	14	32%	5.78E-07
V\$MEIS1_01	22	7	32%	0.000408
V\$GATA1_03	139	44	32%	2E-15
V\$HNF1_01	179	56	31%	2.66E-15
V\$NFKAPPAB_01	77	24	31%	9.88E-11
V\$OCT1_B	276	86	31%	3.33E-15
V\$PBX1_01	91	28	31%	4.02E-12
V\$AHRARNT_01	98	30	31%	8.1E-13
V\$HES1_Q2	49	15	31%	4.05E-07
V\$FAC1_01	171	52	30%	2.66E-15
V\$HNF1_Q6_01	173	52	30%	2.66E-15
V\$NFKAPPAB65_0	97	29	30%	3.75E-12
V\$PTF1BETA_Q6	64	19	30%	2.1E-08
V\$SMAD4_Q6	27	8	30%	0.000274
V\$SRF_Q5_02	129	38	29%	9.99E-16
V\$ETS_Q4	17	5	29%	0.004132
V\$CP2_01	58	17	29%	1.41E-07
V\$CREL_01	106	31	29%	1.32E-12
V\$BACH2_01	113	33	29%	2.65E-13
V\$ISRE_01	180	52	29%	2.66E-15

V\$IRF1_01	149	43	29%	2.22E-15
V\$COUP_01	70	20	29%	1.86E-08
V\$AP2_Q3	28	8	29%	0.000361
V\$GATA1_04	102	29	28%	1.49E-11
V\$OCT_C	389	110	28%	6E-15
V\$IRF2_01	170	48	28%	2.89E-15
V\$STAT5A_01	170	48	28%	2.89E-15
V\$ARP1_01	57	16	28%	6.27E-07
V\$CIZ_01	43	12	28%	1.67E-05
V\$RSRFC4_01	90	25	28%	6.3E-10
V\$SRF_C	72	20	28%	3.15E-08
V\$MEF2_03	65	18	28%	1.59E-07
V\$MYCMAX_02	40	11	28%	4.35E-05
V\$NRF2_Q4	124	34	27%	8.68E-13
V\$DR1_Q3	66	18	27%	2.05E-07
V\$GATA1_01	11	3	27%	0.032606
V\$SMAD_Q6	11	3	27%	0.032606
V\$COUP_DR1_Q6	92	25	27%	1.05E-09
V\$AP1_Q2_01	59	16	27%	1.05E-06
V\$PAX1_B	74	20	27%	5.21E-08
V\$NFKB_Q6_01	89	24	27%	2.65E-09
V\$OCT1_01	127	34	27%	1.83E-12
V\$E2F1_Q6_01	45	12	27%	2.77E-05
V\$GATA3_01	15	4	27%	0.014866
V\$PAX8_B	65	17	26%	8.51E-07
V\$AP1_Q4	46	12	26%	3.52E-05
V\$HIF1_Q5	58	15	26%	4.31E-06
V\$PPARA_01	74	19	26%	2.69E-07
V\$PPARG_01	78	20	26%	1.35E-07
V\$PPARG_03	78	20	26%	1.35E-07
V\$AP1_01	82	21	26%	6.79E-08
V\$NRSE_B	119	30	25%	1.79E-10
V\$SOX_Q6	128	32	25%	5.73E-11
V\$NFE2_01	92	23	25%	2.69E-08
V\$VDR_Q6	24	6	25%	0.004149
V\$CRX_Q4	173	43	25%	3.8E-14
V\$IRF7_01	173	43	25%	3.8E-14
V\$TST1_01	133	33	25%	3.61E-11
V\$STAT5A_02	129	32	25%	7.13E-11
V\$OCT1_Q5_01	97	24	25%	1.69E-08
V\$PPARA_02	69	17	25%	2.1E-06
V\$CEBPB_02	122	30	25%	3.46E-10
V\$HLF_01	139	34	24%	2.81E-11
V\$OCT1_Q6	139	34	24%	2.81E-11
V\$STAT_Q6	45	11	24%	0.00014
V\$STAT5B_01	168	41	24%	2.98E-13
V\$TCF11MAFG_01	119	29	24%	8.47E-10
V\$NFKB_Q6	78	19	24%	6.52E-07
V\$GATA_C	103	25	24%	1.3E-08
V\$TGIF_01	66	16	24%	5.21E-06
V\$AREB6_03	62	15	24%	1.05E-05
V\$CEBPB_01	50	12	24%	8.54E-05

V\$CEBP_Q2	50	12	24%	8.54E-05
V\$BACH1_01	139	33	24%	1.28E-10
V\$\$S8_01	114	27	24%	6.18E-09
V\$HNF3ALPHA_Q6	76	18	24%	1.97E-06
V\$P53_01	76	18	24%	1.97E-06
V\$SEF1_C	55	13	24%	5.2E-05
V\$OCT1_05	195	46	24%	4.04E-14
V\$SMAD_Q6_01	34	8	24%	0.001473
V\$ICSBP_Q6	282	66	23%	4E-15
V\$E2A_Q2	47	11	23%	0.000212
V\$MYB_Q6	47	11	23%	0.000212
V\$ZID_01	60	14	23%	3.17E-05
V\$IK1_01	86	20	23%	7.43E-07
V\$LUN1_01	86	20	23%	7.43E-07
V\$LMO2COM_02	110	25	23%	5.31E-08
V\$LYF1_01	110	25	23%	5.31E-08
V\$HSF1_01	66	15	23%	2.34E-05
V\$PBX_Q3	81	18	22%	5.21E-06
V\$MYOGNF1_01	54	12	22%	0.000188
V\$HSF2_01	68	15	22%	3.4E-05
V\$SREBP1_02	73	16	22%	2.05E-05
V\$MEF2_02	105	23	22%	3.6E-07
V\$NFKB_C	105	23	22%	3.6E-07
V\$OLF1_01	46	10	22%	0.000763
V\$SMAD3_Q6	60	13	22%	0.000135
V\$CDP_01	172	37	22%	2.12E-10
V\$PR_01	70	15	21%	4.88E-05
V\$CEBP_Q2_01	28	6	21%	0.009238
V\$E47_02	14	3	21%	0.061993
V\$MYOD_01	47	10	21%	0.000912
V\$PAX4_04	85	18	21%	1.07E-05
V\$ER_Q6	57	12	21%	0.000322
V\$TFIIA_Q6	38	8	21%	0.003126
V\$HNF4_DR1_Q3	67	14	21%	0.000115
V\$E47_01	24	5	21%	0.019238
V\$HEN1_02	29	6	21%	0.011003
V\$NFKAPPAB50_0	63	13	21%	0.000227
V\$MAF_Q6_01	68	14	21%	0.000136
V\$SRF_01	112	23	21%	1.2E-06
V\$RSRFC4_Q2	127	26	20%	2.67E-07
V\$HMX1_01	93	19	20%	1.06E-05
V\$MRF2_01	202	41	20%	1.56E-10
V\$MEF2_Q6_01	169	34	20%	6.86E-09
V\$AMEF2_Q6	150	30	20%	5.86E-08
V\$CHOP_01	75	15	20%	0.000112
V\$PEBP_Q6	60	12	20%	0.000529
V\$ZIC3_01	45	9	20%	0.002558
V\$PXR_Q2	40	8	20%	0.004366
V\$CEBP_Q3	30	6	20%	0.012994
V\$EBF_Q6	30	6	20%	0.012994
V\$AP1FJ_Q2	25	5	20%	0.022759
V\$HEN1_01	20	4	20%	0.040491

V\$CEBP_01	15	3	20%	0.073775
V\$NRSF_01	146	29	20%	1.13E-07
V\$HMEF2_Q6	121	24	20%	1.37E-06
V\$SREBP_Q3	66	13	20%	0.000368
V\$SRF_Q6	66	13	20%	0.000368
V\$ZIC2_01	112	22	20%	4.38E-06
V\$POU3F2_02	293	57	19%	3.18E-13
V\$GATA1_05	129	25	19%	1.31E-06
V\$AP1_Q2	31	6	19%	0.015223
V\$TTF1_Q6	31	6	19%	0.015223
V\$FOXP3_Q4	109	21	19%	9.79E-06
V\$CEBP_C	99	19	19%	2.69E-05
V\$FREAC2_01	302	57	19%	1.18E-12
V\$FREAC7_01	122	23	19%	5.54E-06
V\$HNF4ALPHA_Q6	80	15	19%	0.000238
V\$E12_Q6	16	3	19%	0.086463
V\$HOXA4_Q2	59	11	19%	0.001629
V\$HMG1Y_Q3	102	19	19%	4.15E-05
V\$PAX8_01	43	8	19%	0.006894
V\$GR_01	97	18	19%	6.87E-05
V\$HOXA3_01	124	23	19%	7.35E-06
V\$NCX_01	124	23	19%	7.35E-06
V\$CHX10_01	178	33	19%	8.91E-08
V\$LEF1TCF1_Q4	162	30	19%	3.42E-07
V\$TTF1_Q3	81	15	19%	0.000275
V\$PAX6_01	130	24	18%	5.12E-06
V\$E4BP4_01	223	41	18%	3.45E-09
V\$DR4_Q2	98	18	18%	7.9E-05
V\$FOXO4_01	44	8	18%	0.007943
V\$NFAT_Q6	11	2	18%	0.16398
V\$MMEF2_Q6	139	25	18%	5.35E-06
V\$AR_03	39	7	18%	0.013604
V\$DR3_Q4	39	7	18%	0.013604
V\$FOXO1_02	230	41	18%	8.73E-09
V\$HNF1_C	135	24	18%	1E-05
V\$PITX2_Q2	135	24	18%	1E-05
V\$HNF4_01	45	8	18%	0.009107
V\$HNF4_01_B	51	9	18%	0.006127
V\$HOX13_01	51	9	18%	0.006127
V\$SRY_02	57	10	18%	0.00414
V\$COREBINDINGF	120	21	18%	4.43E-05
V\$FOXO4_02	263	46	17%	2.13E-09
V\$IK3_01	103	18	17%	0.000153
V\$HAND1E47_01	46	8	17%	0.010394
V\$TAL1BETAE47_0	23	4	17%	0.063249
V\$AIRE_02	127	22	17%	3.47E-05
V\$OCT1_04	81	14	17%	0.000888
V\$MSX1_01	128	22	17%	3.93E-05
V\$NKX25_01	163	28	17%	3.84E-06
V\$FREAC4_01	169	29	17%	2.66E-06
V\$ALX4_01	105	18	17%	0.000197
V\$FREAC3_01	216	37	17%	1.29E-07

V\$PAX6_Q2	82	14	17%	0.001006
V\$ROAZ_01	100	17	17%	0.000324
V\$LEF1_Q6	136	23	17%	3.46E-05
V\$RP58_01	71	12	17%	0.00245
V\$PAX_Q6	95	16	17%	0.000532
V\$HNF3B_01	101	17	17%	0.000365
V\$PBX1_02	90	15	17%	0.000876
V\$ERR1_Q2	42	7	17%	0.020067
V\$OCT1_03	36	6	17%	0.030368
V\$HELIOSA_01	24	4	17%	0.072051
V\$GATA2_01	12	2	17%	0.188504
V\$NF1_Q6	12	2	17%	0.188504
V\$LMO2COM_01	6	1	17%	0.338971
V\$BRN2_01	170	28	16%	8.77E-06
V\$FXR_Q3	119	19	16%	0.000342
V\$GATA1_02	119	19	16%	0.000342
V\$EVI1_03	102	16	16%	0.001176
V\$PAX4_02	109	17	16%	0.000897
V\$CEBPGAMMA_Q	104	16	15%	0.001451
V\$AML_Q6	52	8	15%	0.021086
V\$FOXO3_01	287	44	15%	2.46E-07
V\$HSF_Q6	98	15	15%	0.002116
V\$MEIS1BHOXA9	138	21	15%	0.000338
V\$CDPCR3HD_01	40	6	15%	0.047837
V\$EVI1_02	40	6	15%	0.047837
V\$FXR_IR1_Q6	54	8	15%	0.025944
V\$MEIS1AHOXA9	176	26	15%	0.000118
V\$P53_DECAMER	34	5	15%	0.073019
V\$PR_02	48	7	15%	0.038827
V\$IPF1_Q4_01	118	17	14%	0.002176
V\$CDPCR3_01	112	16	14%	0.003148
V\$MYB_Q5_01	14	2	14%	0.238719
V\$P53_02	7	1	14%	0.383039
V\$ZIC1_01	71	10	14%	0.01907
V\$PPARG_02	51	7	14%	0.051469
V\$NKX61_01	124	17	14%	0.003686
V\$POU6F1_01	219	30	14%	0.000151
V\$PIT1_Q6	73	10	14%	0.022774
V\$SOX9_B1	112	15	13%	0.007594
V\$GATA4_Q3	75	10	13%	0.026971
V\$HNF3_Q6	61	8	13%	0.048935
V\$TAL1ALPHAE47	46	6	13%	0.083705
V\$EVI1_05	39	5	13%	0.115612
V\$BRACH_01	86	11	13%	0.027675
V\$FOXD3_01	47	6	13%	0.090815
V\$POU1F1_Q6	134	17	13%	0.008048
V\$RORA2_01	167	21	13%	0.003898
V\$AP4_01	40	5	13%	0.125294
V\$AR_01	89	11	12%	0.034519
V\$FOX_Q2	138	17	12%	0.01067
V\$NKX62_Q2	116	14	12%	0.022574
V\$AREB6_01	25	3	12%	0.23081

V\$OCT1_02	184	22	12%	0.005837
V\$MEF2_01	202	24	12%	0.00447
V\$GCNF_01	120	14	12%	0.029228
V\$MEF2_04	112	13	12%	0.035986
V\$NKX25_02	234	27	12%	0.00404
V\$EVI1_04	123	14	11%	0.035086
V\$FOXM1_01	80	9	11%	0.084806
V\$OCT1_07	198	22	11%	0.013276
V\$FOXJ2_02	218	24	11%	0.011194
V\$HFH1_01	209	23	11%	0.012858
V\$IPF1_Q4	101	11	11%	0.073615
V\$TAL1BETAIF2	83	9	11%	0.101111
V\$AIRE_01	47	5	11%	0.202218
V\$CDC5_01	179	19	11%	0.030732
V\$FOXJ2_01	104	11	11%	0.086554
V\$HP1SITEFACTO	156	16	10%	0.057484
V\$EVI1_01	117	12	10%	0.090653
V\$AFP1_Q6	166	17	10%	0.052076
V\$FOXP1_01	118	12	10%	0.095111
V\$AR_02	51	5	10%	0.251821
V\$HFH3_01	41	4	10%	0.291102
V\$GRE_C	104	10	10%	0.15561
V\$OCT1_06	73	7	10%	0.21289
V\$AR_Q2	105	10	10%	0.162394
V\$IK2_01	21	2	10%	0.4129
V\$CDP_02	180	17	9%	0.093804
V\$CART1_01	266	25	9%	0.053518
V\$GR_Q6	32	3	9%	0.360522
V\$SOX5_01	75	7	9%	0.232627
V\$HNF6_Q6	282	26	9%	0.059969
V\$NKX22_01	88	8	9%	0.23248
V\$RORA1_01	33	3	9%	0.379071
V\$PR_Q2	11	1	9%	0.531829
V\$TCF11_01	11	1	9%	0.531829
V\$CDX2_Q5	195	17	9%	0.156985
V\$NF1_Q6_01	23	2	9%	0.459346
V\$HNF3_Q6_01	61	5	8%	0.384566
V\$HELIOSA_02	63	5	8%	0.411464
V\$LHX3_01	76	6	8%	0.396077
V\$CDX_Q5	166	13	8%	0.31497
V\$EVI1_06	80	6	8%	0.444285
V\$HFH4_01	123	9	7%	0.43627
V\$POU3F2_01	128	8	6%	0.625546
V\$TEF_Q6	118	7	6%	0.678224
V\$NKX3A_01	87	4	5%	0.83944
V\$E2F1_Q4_01	1	0	0%	1
V\$MAZR_01	1	0	0%	1