

Additional file 7

Significantly over-represented transcription factor binding sites (TFBS) of 39 genes with a specific profile for the osteogenic commitment.

Rank	Transcription Factor Name (Matrix ID)	Total	Found	P-Value	Q-Value	UniGeneID	Gene Symbol	Gene Name
1	GATA-1 (V\$GATA1_02) GATA-binding factor 1	1908	5	0.002213661	0.049392313	Hs.506276 Hs.553496 Hs.1908 Hs.154073 Hs.494192	ATP2B1 PGM3 PRG1 SLC35B1 OSTF1	ATPase, Ca ⁺⁺ transporting, plasma membrane 1 Phosphoglucomutase 3 Proteoglycan 1, secretory granule Solute carrier family 35, member B1 Osteoclast stimulating factor 1
2	CBF (core binding factor) (V\$CBF_01) CBF sites selected in the presence of Ets-1	1897	5	0.002158621	0.051375171	Hs.435215 Hs.291196 Hs.144936 Hs.553496 Hs.134830	VEGFC ATP1B1 IMP-1 PGM3 COL8A1	Vascular endothelial growth factor C ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide IGF-II mRNA-binding protein 1 Phosphoglucomutase 3 Collagen, type VIII, alpha 1
3	Retroviral Poly A (V\$POLY_C) Retroviral Poly A signal	546	3	0.00244714	0.051389931	Hs.209561 Hs.435850 Hs.443852	KIAA1715 LYPLA1 ZDHHC2	KIAA1715 Lysophospholipase I Zinc finger, DHHC-type containing 2
4	AP-4 (V\$AP4_Q6_01)	1896	5	0.002153667	0.054918519	Hs.553496 Hs.154073 Hs.494192 Hs.227067 Hs.126137	PGM3 SLC35B1 OSTF1 ATAD3A BACH	Phosphoglucomutase 3 Solute carrier family 35, member B1 Osteoclast stimulating factor 1 ATPase family, AAA domain containing 3A Acyl-CoA thioesterase 7
5	SREBP (V\$SREBP_Q3)	1895	5	0.002148723	0.059007228	Hs.506276 Hs.144936 Hs.494192 Hs.227067 Hs.344400	ATP2B1 IMP-1 OSTF1 ATAD3A MPHOSPH6	ATPase, Ca ⁺⁺ transporting, plasma membrane 1 IGF-II mRNA-binding protein 1 Osteoclast stimulating factor 1 ATPase family, AAA domain containing 3A M-phase phosphoprotein 6
6	AP-1 (V\$AP1_Q2) activator protein 1	1888	5	0.002114343	0.06290169	Hs.529782 Hs.443852 Hs.227067 Hs.126137 Hs.344400	VCP ZDHHC2 ATAD3A BACH MPHOSPH6	Valosin-containing protein Zinc finger, DHHC-type containing 2 ATPase family, AAA domain containing 3A Acyl-CoA thioesterase 7 M-phase phosphoprotein 6
7	DEAF1 (V\$DEAF1_02)	614	3	0.003403234	0.067497482	Hs.475103 Hs.553496 Hs.227067	NUP50 PGM3 ATAD3A	Nucleoporin 50kDa Phosphoglucomutase 3 ATPase family, AAA domain containing 3A
8	XFD-3 (V\$XFD3_01) Xenopus fork head domain factor 3	1885	5	0.002099733	0.068145878	Hs.435215 Hs.369438 Hs.553496 Hs.134830 Hs.494192	VEGFC ETS1 PGM3 COL8A1 OSTF1	Vascular endothelial growth factor C V-ets erythroblastosis virus E26 oncogene homolog 1 (avian) Phosphoglucomutase 3 Collagen, type VIII, alpha 1 Osteoclast stimulating factor 1
9	TFE (V\$TFE_Q6)	1878	5	0.002065933	0.073753819	Hs.529782 Hs.506276 Hs.477155 Hs.494192 Hs.344400	VCP ATP2B1 ATP6V1A OSTF1 MPHOSPH6	Valosin-containing protein ATPase, Ca ⁺⁺ transporting, plasma membrane 1 ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A Osteoclast stimulating factor 1 M-phase phosphoprotein 6
10	Poly A downstream element (V\$PADS_C) Retroviral Poly A downstream element	1876	5	0.00205635	0.081568565	Hs.369438 Hs.477155 Hs.446554 Hs.227067 Hs.344400	ETS1 ATP6V1A RAD51 ATAD3A MPHOSPH6	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian) ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae) ATPase family, AAA domain containing 3A M-phase phosphoprotein 6
11	CBF (core binding factor) (V\$CBF_02) CBF sites selected in the absence of Ets-1	1876	5	0.00205635	0.091764636	Hs.435215 Hs.291196 Hs.144936 Hs.553496 Hs.134830	VEGFC ATP1B1 IMP-1 PGM3 COL8A1	Vascular endothelial growth factor C ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide IGF-II mRNA-binding protein 1 Phosphoglucomutase 3 Collagen, type VIII, alpha 1

CRSD: a comprehensive web server for composite regulatory signature discovery

P value threshold: 0.05

N value: 54576

There are 39 accession numbers in your request (transfer to UniGene ID):

Hs.534612(BC007382) Hs.144936(AF117106) Hs.494192(NM_012383) Hs.446554(NM_002875) Hs.435850(NM_006330) Hs.553496(NM_015599) Hs.21432(NM_017514) Hs.2820(NM_000916) Hs.134830(NM_020351)
Hs.471873(NM_012145) Hs.126137(NM_007274) Hs.519445(NM_005654) Hs.475103(NM_007172) Hs.443852(NM_016353) Hs.154073(NM_005827) Hs.435215(NM_005429) Hs.1908(NM_002727)
Hs.506276(NM_001682) Hs.209561(AB051502) Hs.435981(NM_001983) Hs.344400(NM_005792) Hs.227067(NM_018188) Hs.477155(NM_001690) Hs.529782(NM_007126) Hs.443021(NM_003532)
Hs.291196(NM_001677) Hs.369438(NM_005238)

There were 27 unique genes found.