

Table 3. Genes increased by MnTBAP**Cell Structure / Cell Surface**

Genbank	Gene Name	MnTBAP	SEB
NM_007393	actin, beta, cytoplasmic	15129	4974
AK009844	clathrin, light polypeptide (Lcb)	2273	809
NM_013489	CD84 antigen	2050	623
M30441	intronless potassium channel gene MK3	1423	597
NM_007502	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide	1202	522
NM_010577	integrin alpha 5 (fibronectin receptor alpha)	790	241
NM_019759	dermatopontin	718	23
ET63482	synaptonemal complex protein 1 (Scp1)	692	294
D50095	histamine H1 receptor	685	125
NM_030694	interferon induced transmembrane protein 3-like	660	286
AJ278733	myosin, heavy polypeptide 4, skeletal muscle	588	238
J03458	filaggrin	519	133
ET61617	5E6 (5E6/Ly-49C)	312	129
NM_010107	ephrin A1	293	128
NM_016885	endomucin	282	25
NM_013489	CD84 antigen	101	22

Signal Transduction

		MnTBAP	SEB
NM_018738	interferon gamma induced GTPase	3894	1038
NM_011306	retinoid X receptor beta	3702	-2937
NM_021305	SEC61, alpha subunit 2 (<i>S. cerevisiae</i>)	1593	699
NM_007930	ectodermal-neural cortex 1	1560	296
NM_133977	transferrin	1485	302
NM_008380	inhibin beta-A	1443	632
NM_008714	Notch gene homolog 1, (<i>Drosophila</i>)	1348	80
NM_011579	T-cell specific GTPase	1256	303
NM_008795	PCTAIRE-motif protein kinase 3	1212	213
D00622	LDL receptor-related protein associated protein 1	1193	518
BC017678	ral guanine nucleotide dissociation stimulator	1191	478
AK010554	G protein, gamma transducing activity polypeptide 2	1160	466
NM_019781	peroxisomal biogenesis factor 14	1026	49
AF263240	Down syndrome critical region homolog 1 (human)	979	416
D28530	protein tyrosine phosphatase, receptor type, S	752	210
NM_007795	cardiotrophin 1	721	110
NM_008326	interferon inducible protein 1	629	145
NM_020009	FK506 binding protein 12-RAP-1	607	265
NM_011126	palate, lung, and nasal epithelium expressed	594	255
X96606	ovary testis transcribed	565	54
NM_010313	guanine nucleotide binding protein, beta 5	523	189
NM_017473	retinol dehydrogenase 7	504	61
AK005067	calcium binding protein P22	472	193
NM_007996	ferredoxin 1	428	136
NM_008068	GABA-A receptor, subunit alpha 6	383	155
X69722	insulin receptor substrate 1	377	117
NM_008363	interleukin 1 receptor-associated kinase	360	121
AF453686	ELKL motif serine-threonine protein kinase 3	234	66
NM_020047	tumor-associated calcium signal transducer 2	220	17
NM_021516	MAP/microtubule affinity-regulating kinase 3	166	68
NM_053089	NMDA receptor-regulated gene 1	124	-2

Genbank	Gene Name	MnTBAP	SEB
NM_013498	cAMP responsive element modulator	119	29

Gene Expression / Nucleic Acid Binding		MnTBAP	SEB
D32200	helix-loop-helix transcription factor	2102	915
NM_010916	nescient helix loop helix 1	1881	693
NM_019711	RNA binding motif, ss interacting protein 2	1355	198
NM_016660	high mobility group AT-hook 1	1222	486
ET61506	transcription factor Id1B (Id1B)	1181	223
NM_007923	ELK4, member of ETS oncogene family	1181	421
AF151110	constitutive photomorphogenic protein 1	683	179
M76987	alpha-globin transcription factor	667	122
NM_030724	uridine-cytidine kinase 2	663	254
NM_010914	nuclear transcription factor-Y beta	564	229
NM_007855	dermis expressed 1	542	187
NM_026810	mutL homolog 1 (E. coli)	480	43
NM_016777	nuclear autoantigenic sperm protein	394	150
NM_018796	eukaryotic translation elongation factor 1 beta 2	370	156
AK011489	replication factor C (activator 1) 5 (36.5 kDa)	326	39
NM_027139	TAF9 RNA polymerase II, TBP-associated factor	265	37
AK008264	inhibitor of DNA binding 1	203	22
NM_009352	telomeric repeat binding factor 1	157	61
AK019451	eukaryotic translation initiation factor 1A	113	17

Apoptosis / Oncogenes		MnTBAP	SEB
L31532	bcl2-alpha	1827	617
BF120858	neoplastic progression 3	340	62
ET61316	Mus musculus senescence marker protein-30	276	112
NM_008591	met proto-oncogene	111	-6

Enzymes/Proteases		MnTBAP	SEB
NM_007446	amylase 1, salivary	3316	1318
NM_011900	mannose-P-dolichol utilization defect 1	2720	1075
L00654	mast cell protease-7 gene	2015	852
AK012951	proteasome 26S subunit, non-ATPase, 11	1933	727
NM_019949	ubiquitin-conjugating enzyme 8	1686	564
NM_016757	WW domain binding protein 1	594	182
NM_011321	spermine binding protein	359	150
NM_011456	serine protease inhibitor 14	204	52
NM_008939	protease, serine, 12 neurotrypsin	187	79
BC006696	casein beta	166	65
NM_013778	aldo-keto reductase family 1, member C13	160	43

Immunity		MnTBAP	SEB
ET61286	anti-DNA heavy chain variable region	1339	425
U12565	defensin-like gene 4C-4	1255	382
M12815	TCR active gamma-chain V10.8B-J-C10.8	884	382
X12729	TCR rearranged delta-chain mRNA V-D-J-C region	685	207
NM_009605	adipocyte complement related protein of 30 kDa	522	179
ET61970	anti-DNA light chain IgG, 384s.63	509	107
ET61832	anti-DNA heavy chain IgG, 384p.113	450	161
ET61828	anti-DNA heavy chain IgG, 373s.116	305	110
NM_010390	histocompatibility 2, Q region locus 1	253	-21

Genbank	Gene Name	MnTBAP	SEB
ET62271	TCR variable and J region mRNA.	243	-96
NM_011314	serum amyloid A 2	233	94
NM_009888	complement component factor h	185	19
ET61833	anti-DNA heavy chain IgG, 384p.20	145	6

Mitochondria		MnTBAP	SEB
L22181	N-formyl peptide chemotactic receptor	1264	439
NM_008706	NAD(P)H dehydrogenase, quinone 1	296	118
NM_008042	formyl peptide receptor-like 1	181	72