

Table S1. List of genes up- or down-regulated in H99 when bound by 18B7.

<u>Up-regulated Genes</u>	<u>Classification</u>
CNF03470: Formate dehydrogenase	Metabolism
CNC03960: Phosphate transporter, putative	Metabolism
CND00530: Putative urea transporter	Secretion
CNA02250: Ammonium transporter MEP1	Secretion
CNC06440: Inositol 1-phosphate synthase	Metabolism
CND03490: Chitin deacetylase-like mannoprotein MP98	Cell wall
CNA04560: Hypothetical protein	Hypothetical
CNF02180: Acetyl-CoA carboxylase, putative	Metabolism
CNJ00690: Uracil permease, putative	Secretion
CNF02510: Alcohol dehydrogenase, putative	Metabolism
CNE04360: Fatty acid synthase, alpha subunit-related	Metabolism
CNM00180: Cyclohydrolase, putative	Metabolism
CNL03740: AF540951 catalase isozyme P	Stress
CNE04370: Fatty acid synthase, beta subunit	Metabolism
CNA01790: Expressed protein	Hypothetical
CNA05700: Expressed protein	Hypothetical
CND03840: Vacuole fusion, non-autophagic-related protein, putative	Cell wall
CNM00980: Hypothetical protein	Hypothetical
CNI02420: Uricase (Urate oxidase), putative	Metabolism
CNJ01090: Xylitol dehydrogenase-related	Cell wall
CNC03430: Alpha-1,6-mannosyltransferase, putative	Cell wall
CNF04120: Expressed protein	Hypothetical
CNB01810: Short chain dehydrogenase, putative	Metabolism
CNJ01200: Hypothetical protein	Hypothetical
CNA01160: LSDR putative	Metabolism
CNH03430: Hypothetical protein	Hypothetical
CNM02410: Putative proteine disulfate isomerase	Housekeeping
CNG04200: Alpha-amylase, putative	Cell wall
CNC00920: NADP-dependent glutamate dehydrogenase	Metabolism
166_3.seq.171	Hypothetical
CNC06430: Dehydrogenase	Metabolism
CNG02940: Glycine-rich RNA binding protein	Housekeeping
CNG02940: Glycine-rich RNA binding protein-related	Housekeeping
CNI02000: Glycerophosphodiester phosphodiesterase, putative	Metabolism
CNF04890: Predicted dehydrogenase	Metabolism
CNF01860: Proteasome subunit alpha type 4	Metabolism
CND06130: Beta-glucan synthesis-associated protein	Cell wall
CNE03100: Phosphoketolase	Metabolism
<u>Down-regulated genes</u>	
CNJ02710: Membrane protein	Cell wall
CNK03460: PQQ enzyme repeat, putative	Cell wall
CNI01300: 2,4-dichlorophenoxyacetate alpha-ketoglutarate dioxygenase	Metabolism
CNC02990: DNA-directed RNA polymerase	Housekeeping
CNI01950: Acetyltransferase	Cell wall

Table S2. Comparison of Gene Fold Changes from Microarray & Real-time PCR for 18B7 binding H99.

Gene	Gene Description	Microarray FC <sup>a</sup>	QRT-PCR FC <sup>b</sup>	QRT-PCR FC-2	Same pattern (up or down)
		H99-18B7	H99-18B7	H99-18B7	Microarray vs QRT-PCR?
CNI01300	2, 4-dichlorophenoxyacetate dioxygenase	0.47	0.61	0.70	Yes
CNI01950	Acetyltransferase	0.38	0.97	0.77	No
CND03490	MP98	3.08	3.54	3.84	Yes
CND00530	Urea transporter	3.57	11.50	12.75	Yes
CNE04360	Fatty acid synthase, alpha subunit-related*	2.66	1.95	1.28	Yes
CNE04370	Fatty acid synthase, beta subunit*	2.50	2.51	2.78	Yes
CNC03960	Inorganic phosphate transporter	3.93	1.93	2.49	Yes
CNC06440	Inositol 1-phosphate synthase	3.12	3.17	2.87	Yes
CNC02990	DNA-directed rna polymerase	0.43	0.61	0.50	Yes
CNF02180	Acetyl-CoA carboxylase*	2.87	2.08	1.90	Yes
CNF02510	Alcohol dehydrogenase	2.67	2.01	2.20	Yes
CNF03470	Formate dehydrogenase	5.04	1.27	1.36	No
CNA02250	Ammonium transporter MEP1	3.29	1.48	3.18	Yes
CNJ00690	Uracil permease, putative	2.81	1.02	nd	No

a=Fold Change, b= Quantitative real-time PCR, nd= no data, \* Genes involved in fatty acid synthesis

Table S3. List of genes up-or down-regulated in H99 when bound by 12A1.

<u>Up-regulated Genes</u>	<u>Classification</u>
CNE00710: Mannitol-1-phosphate dehydrogenase, putative	Metabolism
CNI03250: GPI anchor biosynthesis-related protein, putative	Cell Wall
CNC03810: Hypothetical protein	Hypothetical
CNA03300: Hypothetical protein	Hypothetical
CNB02680: Monosaccharide transporter	Secretion
CNC01660: Cytokine inducing-glycoprotein, putative	Cell Wall
CNI02030: Probable aspartokinase	Metabolism
CNBB3710: Hypothetical protein	Hypothetical
CND06090: Expressed protein	Hypothetical
170_3.seq.044	Hypothetical
CND01310: Conserved hypothetical protein	Hypothetical
CNH02940: Hypothetical protein	Hypothetical
CNC06440: Inositol 1-phosphate synthase	Metabolism
CNN02330: Hypothetical protein	Hypothetical
CNK03270: Expressed protein	Hypothetical
CNN01010: Malate dehydrogenase	Metabolism
CND02630: Hypothetical protein	Hypothetical
CNBL2280: Hypothetical protein	Hypothetical
CNA05840: Glycosyl hydrolase, putative	Metabolism
CNK01910: Hypothetical protein	Hypothetical
CNBL0970: Hypothetical protein	Hypothetical
164_1.seq.113	Hypothetical
167_3.seq.014	Hypothetical
CNE00770: Plasma membrane protein, putative	Cell Wall
CND00280: Hypothetical protein	Hypothetical
173_2.seq.080	Hypothetical
CNBA3520: Hypothetical protein	Hypothetical
CNK00030: Conserved hypothetical protein	Hypothetical
CNI01540: Expressed protein	Hypothetical
CNE00430: Expressed protein	Hypothetical
CNH03660: Alpha-amylase AmyA	Metabolism
CNA02640: Expressed protein	Hypothetical
CNA04330: Isovaleryl-CoA dehydrogenase 2, mitochondrial precursor	Metabolism
CND00700: Argininosuccinate synthase, putative	Metabolism
 <u>Down-regulated Genes</u>	
CNF03720: C-22 sterol desaturase, putative	Metabolism
CNF00310: High-affinity methionine permease	Secretion
CNE03290: Probable eukaryotic translation initiation factor 3	Translation
CND03490: Chitin deacetylase-like mannoprotein MP98	Cell Wall
CNL04010: Hypothetical protein	Hypothetical
CNA02480: Conserved hypothetical protein	Hypothetical
CNI03990: Hypothetical protein	Hypothetical
CNC00240: Ribosomal large subunit biogenesis-related protein, putative	Translation
CNL05260: Histone_deacetylase_3-related	Housekeeping

CNM00160: Conserved hypothetical protein	Hypothetical
CND03040: Conserved hypothetical protein	Hypothetical
CNA04950: Conserved hypothetical protein	Hypothetical
CNG03650: ATP dependent RNA helicase, putative	Translation
CNB01060: Probable ATP-dependent RNA helicase has1	Translation
CNB04530: Conserved hypothetical protein	Hypothetical
CNC02410: C-4 methyl sterol oxidase	Metabolism
CNL05530: Hypothetical protein	Hypothetical
CNI03560: Sulfate adenylyltransferase MET3	Metabolism
CNC04600: BC022918 Pgs1-pending protein, putative	Metabolism
CNC04510: Conserved hypothetical protein	Hypothetical
CNBJ3020: Hypothetical protein	Hypothetical
CNC04220: Hypothetical protein	Hypothetical
CNA01290: rRNA processing-related protein, putative	Translation
CNN00480: Chromosome organization and biogenesis -related protein	Translation
CNB02220: Nucleolus protein, putative, Yna1p	Translation
CNF02210: Expressed protein	Hypothetical
CNG02750: Cytoplasm protein, related to low-temperature viability protein LTV1	Translation
CNBE1990: Hypothetical protein	Hypothetical

Table S4. Comparison of Gene Fold Changes from Microarray & Real-time PCR for 12A1 binding H99.

Gene	Gene Description	Microarray	QRT-PCR	QRT-PCR	Same pattern (up or down) Microarray vs QRT- PCR?
		FC <sup>a</sup>	FC <sup>b</sup>	FC-2	
		H99-12A1	H99-12A1	H99-12A1	
CNI02030	Probable aspartokinase	2.96	0.69	0.45	No
CNI03250	GPI anchor biosynthesis-related protein, putative	3.55	0.43	0.39	No
CNI03560	Sulfate adenylyltransferase MET3	0.41	0.20	0.06	Yes
CND03490	Chitin deacetylase-like mannoprotein MP98	0.49	0.79	0.87	Yes
CNM00160	Ribosomal small subunit biogenesis protein*	0.46	0.22	0.18	Yes
CNE00710	Mannitol-1-phosphate dehydrogenase	4.00	3.56	1.97	Yes
CNE03290	Eukaryotic translation initiation factor 3*	0.49	0.31	0.26	Yes
CNE00770	Plasma membrane protein, putative Related to low-temperature viability protein	2.18	0.77	0.27	No
CNG02750	LTV1*	0.27	0.17	0.10	Yes
CNG03650	ATP-dependent RNA helicase*	0.45	0.20	0.13	Yes
CNC00240	Ribosomal large subunit biogenesis protein*	0.48	0.24	0.25	Yes
CNC04510	Major facilitator superfamily transporter	0.39	0.20	0.15	Yes
CNC06440	Inositol 1-phosphate synthase	2.56	0.25	0.38	No
CNA01290	rRNA processing-related*	0.37	0.19	0.14	Yes
CNA05840	Glycosyl hydrolase, putative	2.29	1.46	0.49	No
CNA04330	Isovaleryl-CoA dehydrogenase 2	2.20	2.11	2.06	Yes
CNN00480	Related to microtubule-interacting protein	0.36	0.16	0.24	Yes
CNN01010	Malate dehydrogenase	2.40	0.86	0.43	No
CNB01060	Probable ATP-dependent RNA helicase has1*	0.44	0.22	0.14	Yes
CNB02220	Nucleolus protein, Yna1p*	0.36	0.18	0.08	Yes
CNB02680	Monosaccharide transporter	3.22	0.41	0.38	No

a=Fold Change, b= Quantitative Real-Time PCR, \*Genes involved in translation

Table S5. List of genes up-or down-regulated in H99 when bound by 13F1.

<u>Up-regulated Genes</u>	<u>Classification</u>
CNB02680: Monosaccharide transporter	Secretion
CNE00710: Mannitol-1-phosphate dehydrogenase, putative	Cell Wall
CNM01780: Meiotic recombination-related protein, putative	Replication
CNB05670: Hypothetical protein	Hypothetical
CNH02940: Hypothetical protein	Hypothetical
CNC03810: Hypothetical protein	Hypothetical
CNN01010: Malate dehydrogenase (oxaloacetate-decarboxylating), putative	Metabolism
CNE03070: UVSB PI-3 kinase	Replication
CNC01660: Cytokine inducing-glycoprotein, putative	Cell Wall
CNF01380: D-hydantoinase (dihydropyrimidinase)	Metabolism
CNC04420: Probable argininosuccinate lyase	Metabolism
CNI02030: Probable aspartokinase	Metabolism
162_1.seq.132	Hypothetical
170_3.seq.044	Hypothetical
CNF00610: Alpha-glucosidase, putative	Metabolism
CNH00420: SD07712p	Replication
CNC06440: Inositol 3-phosphate synthase	Metabolism
CND01200: Homocitrate synthase, putative	Metabolism
CNBB3710: Hypothetical protein	Hypothetical
CND05980: Nucleoside transporter	Replication
CNA03300: Hypothetical protein	Hypothetical
CNBG0460: Hypothetical protein	Hypothetical
CNM02100: Expressed protein	Hypothetical
CNC03960: Phosphate transporter, putative	Secretion
CNB05660: Oxidoreductase, putative	Metabolism
CNB04710: Aldehyde reductase	Metabolism
CNK03270: Expressed protein	Hypothetical
CNA04330: Isovaleryl-CoA dehydrogenase 2, mitochondrial precursor, putative	Metabolism
CNBL2120: Hypothetical protein	Hypothetical
CNF00200: Expressed protein	Hypothetical
<u>Down-regulated Genes</u>	
CND04840: Bud site selection-related protein, putative	Cell Wall
CNM01410: Hypothetical protein	Hypothetical
CNC04020: Conserved hypothetical protein	Hypothetical
CND04540: Cytoplasm protein, putative	Metabolism
CNA04770: Protein-tyrosine phosphatase cdc14 homolog	Replication
CNC02410: C-4 methyl sterol oxidase	Metabolism
CNI03990: Hypothetical protein	Hypothetical
CNC04600: CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase	Cell Wall
CNL05530: Hypothetical protein	Hypothetical

Table S6. Comparison of Gene Fold Changes from Microarray & Real-time PCR for 13F1 binding H99.

Gene	Gene Description	Microarray	QRT-PCR	QRT-PCR	Same pattern (up or down) Microarray vs QRT- PCR?
		FC <sup>a</sup>	FC <sup>b</sup>	FC-2	
		H99-13F1	H99-13F1	H99-13F1	
CNI02030	Probable aspartokinase	2.53	0.91	1.00	No
CND01200	Homocitrate synthase, putative	2.20	0.51	0.58	No
CND05980	Nucleoside transporter	2.12	0.45	0.44	No
CNM01780	Meiotic recombination-related protein	3.20	2.49	2.71	Yes
CNE00710	Mannitol-1-phosphate dehydrogenase	3.23	2.45	2.73	Yes
CNE03070	UVSB PI-3 kinase	2.82	1.07	1.01	No
CNC02410	C-4 methyl sterol oxidase	0.46	0.85	0.96	No
CNC04420	Probable argininosuccinate lyase	2.63	1.25	0.97	No
CNC04600	CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase	0.43	0.98	1.11	No
CNC06440	Inositol 1-phosphate synthase	2.24	0.41	0.91	No
CNF00610	Alpha-glucosidase	2.35	1.63	2.11	Yes
CNA04770	Protein-tyrosine phosphatase	0.47	0.76	0.99	Yes
CNN01010	Malate dehydrogenase	2.90	0.31	0.67	No
CNB02680	Monosaccharide transporter	3.25	0.50	0.53	No

a=Fold Change, b= Quantitative real-time PCR

Supplemental Table 7. Real-time RT-PCR primers

Gene	5' Primer	3' Primer
CNI01300	TATCACCCCGAAGTTGTTG	TCCTTTGTCAATGGTTTTTCG
CNI01950	GGCAACGTTCCGATAACCA	GAGTCAGTGAATAAGAGGGGAGAGG
CND03490	TGTGTTACACCTGGTCTCAT	CTTGATGGCTTTCTGGGTGT
CND00530	GGTGGTATGCTTCTGGTGCT	TATGGCAGAAAGGAGCGTGT
CNE04360	CGTCGACAACCTGTGAAAGTG	ATTCGGCTCACTCAAGAAGG
CNE04370	GTCAACGAAGTGGGTGGATT	AACTGGAGCTCGCCAAAGTA
CNC03960	AAGCCTGTATAGTTGCTGGTGA	GTGAAAAATCCGACGCCTAA
CNC06440	ACATGCTTCCCATGGTTCAC	CACGGAGCATAGCCTTGTG
CNC02990	TCTTCGCCAATGCTTTC	CTTCCCTTGGCAGCCTCT
CNF02180	GCCCAGTTTATCGGTAAGTTCA	CCTCCGTAGGAGCTTAGATCG
CNF02510	CGAACCAAGCGTGTAGGTAT	TTGCTTCAGAAGAGCAAACATC
CNF03470	CCAAATGGTCAAAGCGAGTA	TAGAGAACC GCGAGAACCTG
CNA02250	TCAACCAACAGGTGAGTTCG	GAACAAGTAAGCACCCATGC
CNJ00690	GTTTGGAACTTTGTGAGTTTCTC	TGTCAGCGATCCAGAAAGAA
CNI02030	TGCTGCTCAGATCATTGACG	CTTAAAGCAGCAGCGACGAT
CNI03250	AGTCTGATGGACGTGGGTGT	GGAGGTGGGGGAGAAAGAG
CNI03560	CTTACCGAGCGTCAATTGTG	GTGTAGTCCCGCTCGTTTCT
CND03490	CTGCTGCCAGTACAGACGTT	TCCCAGATAGTGGGAAAGA
CNM00160	GATCTTGGTTTCCAGGATTT	GAATGACGGTGACAAACTGC
CNE00710	AGGCTTCGAGATGAACTGTGA	CGTGGTTGACGAAAGAGACA
CNE03290	CAGTCGAAACGATTCAAGCA	TTGCGGCTGAGAACTACACA
CNE00770	CAGCTGTAATGGTTTCTCATCC	TTCCCAGACAGGGTCGTAAC
CNG02750	CAGTCGAAAGACCGAAATCTCT	AGAGTGCCGCTTCACCTTC
CNG03650	CTCTCTTGCTCGAACCAAT	TGAGAGGATGGGTTCTGACTT
CNC00240	AAGCGACTTGAGGAGCTTGC	AGCTGCTGAAGCCACGTTT
CNC04510	CTTGCGGATGTTGTTGGTC	GCAGTGGCAATGACGATGTA
CNC06440	GTGTTGGGCTTATGCTCGTC	TCTTGGTGTGCCAAGAGATG
CNA01290	CTAAGGGCGGAGCCAAAGT	CGATAGAAACGCTTGAGCTG
CNA05840	GCGAGTCCGACCCAGTCT	AAGATGTCCGCAAATCCAAG
CNA04330	TCTCGTCTGGGTA TAGGAGAC	TGAACGACACTTCGGA ACTC
CNN00480	CAGGAAAGGATACGTGCTTCT	GAGCAGAGGATGATTGAGCA
CNN01010	CTTAAGCGGTCAACCTCTCC	AAATTTTGGAGGTGGGCTTT
CNB01060	CGTCAATGGA ACTGGTGTCA	GTGAATGGCCTTG CATGAG
CNB02220	CGGCAAATCCAGATCAGAC	GCCAAACAAGGAAAGTGTG
CNB02680	TTTGCCTGGGCTCTTATCCT	ATCTTGCCGGCCTTGACATA
CNI02030	CCAAAATCGTCCGGTTCATA	CGAGAGACTTGGTCTGCGTA
CND01200	GCCAAGATGCTTGACGAGTT	TTGCAGATGGCCTCACAGT
CND05980	GGCAACTATGATTATGGGGCTCT	TAGAATGGCAGTTCCTTGTCTG
CNM01780	GATTAAGGGTCTGTCCGAAGC	CTCGACGGTCTGCAATTTCT
CNE00710	GGCTTCGAGATGAACTGTGA	CGTGGTTGACGAAAGAGACA
CNE03070	CTGCTGGCCGAACGTTAT	CCGCCTCAATGTACCTTTGT
CNC02410	CCACGAAATTGTCTATTTTGGGA	GGCTGAAGCTTCCACTTTTG
CNC04420	CGACCTTTGATGCATGAGT	AGGCAATAGAGCCCTTGACA
CNC04600	ACCAAAGGCGAACGGATT	ACCTGGTTTCCAGCAAAGTG
CNC06440	ACATGCTTCCCATGGTTCAC	CACGGAGCATAGCCTTGTG
CNF00610	ACTCATGGCTGTTGCTGAAG	GAATATCGAAAGAGAAGGTCTGG
CNA04770	CTGTTCACTTTGGACGACGA	GCATGAAACGTAACGCAAG
CNN01010	CTTAAGCGGTCAACCTCTCC	AAATTTTGGAGGTGGGCTTT
CNB02680	TTTGCCTGGGCTCTTATCCT	ATCTTGCCGGCCTTGACATA