

Coordinating Expression of RNA Binding Proteins with Their mRNA Targets

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Supplementary Table 1-2
Supplementary Figures 1-2

Supplementary Table 1: The regulatory relationship for the studied RBPs and their target genes.

RBPs	<i>P-Mean</i>^a	<i>rho-Mean</i>^a	<i>P-SD</i>^a	<i>rho-SD</i>^a	<i>P-CD</i>^a	<i>rho-CD</i>^a
CBF5	0.0009039	0.2709	3.92E-06	0.3716	0.005846	0.226
PAB1	0.09274	0.1387	0.008289	0.2163	0.05445	0.1584
NOP56	0.9476	0.0054	0.001406	0.2609	0.9568	0.0045
TDH3	0.3151	0.0834	0.4195	0.0671	0.7776	-0.0235
NSR1	0.0002735	0.2959	0.06448	0.1529	0.726	-0.0291
YRA2	0.5675	0.0475	0.3744	0.0738	0.5277	-0.0525
ATG8	0.0038	0.2398	0.000353	0.2937	0.4777	-0.0596
NAB6	0.0008323	-0.2718	0.1411	-0.1215	0.2064	-0.1045
KHD1	0.007009	0.2208	0.004543	-0.232	0.001338	-0.2613
YLL032C	0.08184	0.144	8.00E-06	-0.359	0.001191	-0.2648
PUB1	0.001347	0.2611	0.0004592	-0.2844	7.09E-05	-0.3207
YPL184C	9.65E-06	0.3582	0.0002026	-0.3032	1.38E-05	-0.3522
CBC2	0.00281	0.2453	0.002982	-0.2439	5.71E-06	-0.3668
PUF3	1.19E-05	0.3525	1.59E-05	-0.3477	4.40E-06	-0.3685
NPL3	0.0006563	0.2779	0.0002556	-0.2975	3.67E-06	-0.3726
GBP2	6.83E-12	0.5273	0.0007458	-0.2751	1.76E-06	-0.3824
SHE2	5.67E-07	0.4033	0.009798	-0.2135	8.29E-07	-0.3978
HRB1	0.003687	0.2373	4.30E-08	-0.4317	4.66E-07	-0.4002
MSL5	0.8159	-0.0194	3.77E-05	-0.333	9.78E-08	-0.4225
SSD1	0.2702	0.0915	1.27E-08	-0.4481	4.40E-08	-0.4327
SGN1	4.80E-07	0.4011	3.35E-05	-0.3351	7.60E-09	-0.4541
PIN4	0.0008308	0.2746	2.90E-08	-0.4437	7.40E-09	-0.4606
PUF4	8.14E-09	0.4519	1.33E-08	-0.4461	1.56E-09	-0.4708
SKI2	2.20E-16	0.8104	3.75E-07	0.4097	2.01E-10	-0.5002
PUF5	0.0002383	0.2989	2.20E-16	-0.5416	7.80E-11	-0.5034
PUF2	6.74E-07	0.4008	4.00E-12	-0.5183	2.20E-16	-0.5329
NAB3	0.004614	0.2324	8.09E-15	-0.5841	1.96E-12	-0.5386
SCP160	2.20E-16	0.7753	3.12E-08	-0.4414	2.20E-16	-0.5738
NRD1	0.004833	0.2317	2.20E-16	-0.6756	2.20E-16	-0.5886
NAB2	1.57E-08	0.4454	4.39E-11	-0.5095	2.40E-16	-0.61
PUF1	6.79E-10	0.4828	2.20E-16	-0.6277	2.20E-16	-0.6306
VTS1	1.05E-06	0.3899	2.40E-09	-0.4674	2.20E-16	-0.6675
BFR1	2.20E-16	0.6542	2.20E-16	-0.6437	2.20E-16	-0.6812

^a Linear regression between RBP expression and the *mean/SD/CD* expression of all its target genes. Spearman correlation coefficient and P values for analysis are shown.

Supplementary Table 2: The details of the used data.

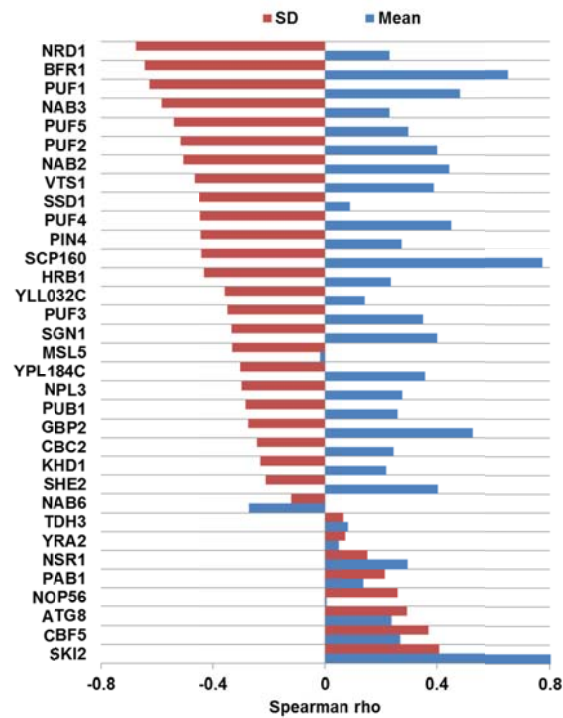
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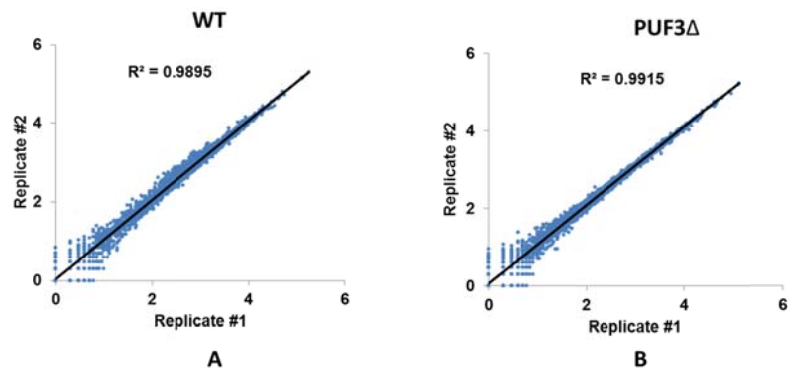
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Supplementary Figures



Supplementary Figure 1. The correlation coefficients (spearman rho) between 33 RBP gene expression and the mean (and SD) of their target gene expression. RBPs are ordered based on the spearman rho for the SD values.



Supplementary Figure 2. The RNA-Seq results for the WT parental strain (A) and the PUF3 Δ strain (B) in YPGE. The correlations of sequence reads between two replicates (\log_{10} RPKM) are shown.