

Additional data file 6. Mutual information in genetic-interaction patterns.

Gene1^a	Gene2^a	Common^b	Mutual Info.^c	-log₁₀P
<i>STE20(gf)</i>	<i>STE12(gf)</i>	99	1.8	16.3
<i>PBS2(lf)</i>	<i>HOG1(lf)</i>	101	1.2	14.1
<i>CDC42(gf)</i>	<i>BEM1(gf)</i>	99	1.0	9.5
<i>STE20(gf)</i>	<i>CDC42(gf)</i>	100	1.5	9.2
<i>PBS2(lf)</i>	<i>HSL1(lf)</i>	95	1.5	8.9
<i>STE12(gf)</i>	<i>CDC42(gf)</i>	101	1.5	8.0
<i>FLO8(gf)</i>	<i>STE20(gf)</i>	100	1.3	6.7
<i>STE20(gf)</i>	<i>TEC1(gf)</i>	99	0.9	6.6
<i>STE12(gf)</i>	<i>GLN3(gf)</i>	99	1.4	6.3
<i>TEC1(gf)</i>	<i>BEM1(gf)</i>	95	0.7	5.0
<i>SFL1(lf)</i>	<i>HOG1(lf)</i>	75	0.8	4.8
<i>STE12(gf)</i>	<i>BEM1(gf)</i>	97	0.8	4.4
<i>CDC42(gf)</i>	<i>GLN3(gf)</i>	101	1.3	4.3
<i>HOG1(lf)</i>	<i>HSL1(lf)</i>	99	0.9	4.3
<i>CDC42(gf)</i>	<i>PBS2(lf)</i>	86	1.0	3.5
<i>FKH2(lf)</i>	<i>YAP1(lf)</i>	18	2.2	3.5
<i>TEC1(gf)</i>	<i>CDC42(gf)</i>	99	0.8	3.3
<i>ISW1(lf)</i>	<i>YAP1(lf)</i>	17	2.4	3.3
<i>RGS2(lf)</i>	<i>MID2(lf)</i>	15	2.3	3.3
<i>STE20(gf)</i>	<i>GLN3(gf)</i>	98	1.2	3.3
<i>YJL142C(lf)</i>	<i>YAP1(lf)</i>	17	2.1	3.2
<i>EGT2(lf)</i>	<i>RGS2(lf)</i>	16	2.1	3.1
<i>STE12(gf)</i>	<i>TEC1(gf)</i>	98	0.8	3.0

^a “gf” indicates a gain-of-function allele. “lf” indicates a loss-of-function allele.

^b The number of interaction partners tested in common.

^c Units are bits.