STable 1. Sample output of screening co-expressed gene pairs based on Kendall correlation coefficient.

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
971	972	HXT7	HXT6	0.965703	2.63E-09	0.000277	0.893359	1
266	356	RPL11B	GTT2	0.947368	5.22E-09	0.000277	0.834336	1
445	446	ERR1	ERR2	0.947368	5.22E-09	0.000277	0.84075	1
260	261	RPL9B	RPL9A	0.936842	7.69E-09	0.000277	0.821361	1
268	269	RPS23B	RPS23A	0.936842	7.69E-09	0.000277	0.827631	1
254	266	RPL24A	RPL11B	0.93404	8.52E-09	0.000277	0.829735	1
230	356	RPS6B	GTT2	0.926316	1.13E-08	0.000277	0.822449	1
239	301	RPS16B	YPL142C	0.926316	1.13E-08	0.000277	0.822449	1
247	334	RPS18A	ENT4	0.926316	1.13E-08	0.000277	0.755724	1
254	356	RPL24A	GTT2	0.923486	1.25E-08	0.000277	0.794477	1
275	348	YLL044W	SEC65	0.923486	1.25E-08	0.000277	0.797236	1
277	334	RPL42A	ENT4	0.923486	1.25E-08	0.000277	0.81526	1
230	266	RPS6B	RPL11B	0.91579	1.65E-08	0.000277	0.793336	1
233	313	RPL21A	RPS3	0.91579	1.65E-08	0.000277	0.812017	1
253	266	RPL24B	RPL11B	0.91579	1.65E-08	0.000277	0.799229	1
267	356	RPL11A	GTT2	0.91579	1.65E-08	0.000277	0.805438	1
294	295	RPL20B	RPL20A	0.91579	1.65E-08	0.000277	0.772159	1
300	302	RPL33B	RPL33A	0.91579	1.65E-08	0.000277	0.777149	1
249	250	RPL27A	RPL27B	0.912932	1.83E-08	0.000277	0.802223	1

STable 2. List of "hub genes". The rank of each gene is the average rank over five networks. Each of five networks is constraint by a different pair of (FDR,MAS) criteria. Highest rank is the most connected and stable gene under varying constraints of (FDR,MAS).

Gene	Rank	Avg Rank
RPL42B	21	4.2
RPS16B	31	6.2
RPL14A	37	7.4
RPS3	37	7.4
GTT2	40	8
RPS4A	49	9.8
RPL33A	58	11.6
RPL23B	77	15.4
RPS7A	79	15.8
RPS4B	86	17.2
RPL27A	89	17.8
RPS18A	95	19
RPL26B	99	19.8
RPS9A	100	20
RPL33B	103	20.6
RPL21A	111	22.2
RPL23A	111	22.2

RPL9B	111	22.2
RPL11B	119	23.8
RPL20B	121	24.2
RPL43A	124	24.8
RPS6B	130	26
RPL24B	138	27.6
RPL14B	139	27.8
RPS11A	146	29.2
RPL20A	151	30.2
YPL142C	151	30.2
ENT4	152	30.4
RPL24A	155	31
RPS24A	161	32.2
YML014W	167	33.4
SEC65	168	33.6
RPS24B	169	33.8
RPL22A	171	34.2
RPS23B	180	36
RPS8B	186	37.2
YGL102C	193	38.6
YLL044W	197	39.4
RPL42A	201	40.2
RPS0A	202	40.4
RPL28	206	41.2
RPS17B	207	41.4
RPL21B	209	41.8
CAT5	210	42
MLC1	220	44
RPS0B	229	45.8
RPL9A	248	49.6
RPS23A	271	54.2
RPL11A	290	58
RPL6B	293	58.6
RPL27B	299	59.8
RPS28A	301	60.2
RPL8A	305	61
RPL12B	313	62.6
RPL7A	318	63.6
RPS10A	319	63.8
RPL18B	363	72.6
YDR417C	369	73.8
RPL17B	373	74.6
RPL10	397	79.4
MRPL24	407	81.4
RPS14B	449	89.8
YLR076C	485	97
RPL35A	499	99.8

RPL35B	526	105.2
RPS21A	611	122.2
RPS16A	640	128
HXT4	911	182.2
RPS13	921	184.2
ADE5,7	975	195
HXT3	995	199
HXT1	1033	206.6
HXT7	1070	214
HXT6	1101	220.2
SIK1	1169	233.8
HXT8	1237	247.4
MET6	1289	257.8
HOR2	1493	298.6
CBF5	1551	310.2
RHR2	1634	326.8
HXT9	1670	334
GCY1	1871	374.2
YGL068W	2077	415.4
YGL069C	2192	438.4
ERR1	2349	469.8
ERR2	2354	470.8
YOR121C	2421	484.2
PHO11	2464	492.8
PHO5	2470	494

STable 3. Clustering co-expressed genes with controlled FDR (5%) at a MAS level of 0.2 using "**GAL7**" as the "seed gene". Known genes in the pathway are in bold. (a) Pearson correlation coefficient as metric

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
1	1	GAL7	**GAL7**	1	0.00E+00	0.00E+00	1	1
1	2	GAL7	**GAL10**	0.925103	5.35E-09	2.67E-06	0.737186	0.980188
1	62	GAL7	YMR318C	0.892639	1.21E-07	4.03E-05	0.638563	0.971244
1	68	GAL7	YBR042C	0.882089	2.71E-07	5.84E-05	0.608213	0.968289
1	3	GAL7	**GAL1**	0.880999	2.93E-07	5.84E-05	0.605123	0.967982
1	70	GAL7	FAR1	0.864743	8.72E-07	1.45E-04	0.559998	0.963377
1	59	GAL7	**GAL2**	0.851884	1.88E-06	2.68E-04	0.525538	0.959693
1	33	GAL7	MLF3	0.834307	4.82E-06	5.18E-04	0.480104	0.954596
1	4	GAL7	GCY1	0.83233	5.32E-06	5.18E-04	0.475111	0.954018
1	25	GAL7	YJL060W	0.831992	5.41E-06	5.18E-04	0.474261	0.953919
1	11	GAL7	SSU1	0.830476	5.83E-06	5.18E-04	0.470449	0.953475
1	90	GAL7	ADE4	0.829112	6.23E-06	5.18E-04	0.467031	0.953075
1	69	GAL7	YER130C	0.818054	1.05E-05	8.05E-04	0.439721	0.949819
1	12	GAL7	YJL212C	0.81134	1.42E-05	1.01E-03	0.423472	0.947828
1	968	GAL7	**HXT4**	-0.80161	2.15E-05	1.30E-03	-0.94492	-0.40035
1	66	GAL7	HIS7	0.800929	2.21E-05	1.30E-03	0.398763	0.944719

1	76	GAL7	SER2	0.800765	2.22E-05	1.30E-03	0.398378	0.94467
1	16	GAL7	YDR010C	0.792343	3.12E-05	1.73E-03	0.378814	0.942135
1	22	GAL7	YPL066W	0.789021	3.55E-05	1.86E-03	0.371197	0.941131
1	5	GAL7	YOR121C	0.782139	4.61E-05	2.30E-03	0.355596	0.939042
1	75	GAL7	YEL071W	0.779814	5.03E-05	2.39E-03	0.350376	0.938333
1	835	GAL7	HSP42	-0.77207	6.66E-05	2.99E-03	-0.93596	-0.33319
1	142	GAL7	TRP2	0.771057	6.90E-05	2.99E-03	0.330962	0.935653
1	178	GAL7	YOR271C	0.768792	7.47E-05	3.01E-03	0.325999	0.934956
1	18	GAL7	MET14	0.767652	7.78E-05	3.01E-03	0.323511	0.934605
1	969	GAL7	**HXT1**	-0.7674	7.84E-05	3.01E-03	-0.93453	-0.32297
1	886	GAL7	HSP30	-0.7662	8.18E-05	3.02E-03	-0.93416	-0.32035
1	889	GAL7	YNL077W	-0.76165	9.55E-05	3.29E-03	-0.93275	-0.31052
1	13	GAL7	MCM1	0.761621	9.56E-05	3.29E-03	0.31045	0.932743
1	10	GAL7	FKS1	0.760055	1.01E-04	3.35E-03	0.307084	0.932258
1	49	GAL7	SER33	0.758935	1.05E-04	3.37E-03	0.304686	0.931911
1	967	GAL7	**HXT10**	-0.75755	1.10E-04	3.41E-03	-0.93148	-0.30172
1	170	GAL7	NOP4	0.756683	1.13E-04	3.41E-03	0.299878	0.931211
1	67	GAL7	MUP3	0.754725	1.20E-04	3.53E-03	0.295718	0.930602
1	79	GAL7	HOM3	0.752634	1.29E-04	3.67E-03	0.291296	0.929951
1	81	GAL7	HIS1	0.746653	1.56E-04	4.31E-03	0.278751	0.928081
1	20	GAL7	YEL057C	0.745228	1.63E-04	4.34E-03	0.275785	0.927634
1	312	GAL7	TRP3	0.744743	1.65E-04	4.34E-03	0.274776	0.927482
1	973	GAL7	**HXT3**	-0.74258	1.77E-04	4.52E-03	-0.9268	-0.2703
1	710	GAL7	FLO1	-0.73918	1.96E-04	4.80E-03	-0.92573	-0.26329
1	902	GAL7	PIG2	-0.73901	1.97E-04	4.80E-03	-0.92568	-0.26294
1	14	GAL7	**PCL10**	0.737284	2.08E-04	4.94E-03	0.259414	0.925134
1	64	GAL7	ASN1	0.734022	2.29E-04	5.32E-03	0.25277	0.924102
1	872	GAL7	YNL144C	-0.73276	2.38E-04	5.40E-03	-0.9237	-0.25021
1	972	GAL7	**HXT6**	-0.73067	2.53E-04	5.55E-03	-0.92304	-0.246
1	83	GAL7	**GAL3**	0.730281	2.56E-04	5.55E-03	0.245207	0.922916
1	71	GAL7	YFR055W	0.721126	3.33E-04	7.07E-03	0.226944	0.919997
1	169	GAL7	CPA1	0.717532	3.69E-04	7.66E-03	0.219868	0.918845
1	88	GAL7	MET6	0.716677	3.78E-04	7.68E-03	0.218192	0.918571
1	851	GAL7	YCL042W	-0.71515	3.94E-04	7.85E-03	-0.91808	-0.2152
1	855	GAL7	**HXT8**	-0.71365	4.10E-04	7.93E-03	-0.9176	-0.21229
1	754	GAL7	YDR100W	-0.71335	4.14E-04	7.93E-03	-0.9175	-0.2117
1	827	GAL7	CYC7	-0.70904	4.65E-04	8.75E-03	-0.91611	-0.20335
1	970	GAL7	**HXT2**	-0.70814	4.76E-04	8.79E-03	-0.91582	-0.20161

(b) Kendall correlation coefficient as metric

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
1	1	GAL7	**GAL7**	1	7.07E-10	7.05E-07	1	1
1	3	GAL7	**GAL1**	0.705263	1.38E-05	6.86E-03	0.442609	0.967917
1	2	GAL7	**GAL10**	0.652632	5.74E-05	1.88E-02	0.355487	0.949776
1	889	GAL7	YNL077W	-0.64211	7.55E-05	1.88E-02	-1.0043	-0.27991
1	62	GAL7	YMR318C	0.631579	9.89E-05	1.97E-02	0.383702	0.879456
1	79	GAL7	HOM3	0.610526	1.68E-04	2.78E-02	0.308756	0.912297

1	11	GAL7	SSU1	0.6	2.17E-04	2.88E-02	0.285355	0.914645
1	69	GAL7	YER130C	0.6	2.17E-04	2.88E-02	0.305833	0.894167
1	12	GAL7	YJL212C	0.589474	2.79E-04	3.09E-02	0.272808	0.90614
1	886	GAL7	HSP30	-0.57895	3.59E-04	3.25E-02	-0.8767	-0.28119
1	59	GAL7	**GAL2**	0.564646	5.00E-04	3.56E-02	0.221696	0.907595
1	835	GAL7	HSP42	-0.53684	9.35E-04	4.84E-02	-0.85673	-0.21696
1	75	GAL7	YEL071W	0.522429	1.28E-03	4.84E-02	0.249105	0.795753
1	70	GAL7	FAR1	0.51579	1.48E-03	4.84E-02	0.235529	0.79605
1	152	GAL7	HPT1	0.51579	1.48E-03	4.84E-02	0.207295	0.824284

STable 4. Clustering co-expressed genes with controlled FDR (5%) at a MAS level of 0.2 using "**GAL10**" as the "seed gene". (a) Pearson correlation coefficient as metric

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
2	2	GAL10	**GAL10**	1	0.00E+00	0.00E+00	1	1
2	1	GAL10	**GAL7**	0.925103	5.35E-09	2.67E-06	0.727108	0.981023
2	4	GAL10	GCY1	0.91733	1.27E-08	4.20E-06	0.701969	0.97899
2	3	GAL10	**GAL1**	0.905611	3.99E-08	9.95E-06	0.665053	0.975901
2	59	GAL10	**GAL2**	0.893609	1.12E-07	2.23E-05	0.628426	0.972709
2	5	GAL10	YOR121C	0.891345	1.34E-07	2.23E-05	0.621649	0.972104
2	70	GAL10	FAR1	0.886785	1.91E-07	2.72E-05	0.608116	0.970881
2	68	GAL10	YBR042C	0.864122	9.06E-07	1.13E-04	0.543174	0.964737
2	62	GAL10	YMR318C	0.851488	1.92E-06	2.13E-04	0.508566	0.961264
2	33	GAL10	MLF3	0.849472	2.15E-06	2.15E-04	0.503143	0.960706
2	22	GAL10	YPL066W	0.839353	3.72E-06	3.10E-04	0.476334	0.957895
2	20	GAL10	YEL057C	0.839276	3.73E-06	3.10E-04	0.476134	0.957873
2	16	GAL10	YDR010C	0.83517	4.61E-06	3.31E-04	0.465446	0.956726
2	11	GAL10	SSU1	0.835035	4.64E-06	3.31E-04	0.465097	0.956688
2	25	GAL10	YJL060W	0.820181	9.53E-06	6.33E-04	0.427328	0.952505
2	69	GAL10	YER130C	0.8155	1.18E-05	7.35E-04	0.415702	0.951176
2	14	GAL10	**PCL10**	0.812014	1.38E-05	7.73E-04	0.407129	0.950183
2	76	GAL10	SER2	0.811686	1.40E-05	7.73E-04	0.406328	0.950089
2	49	GAL10	SER33	0.810266	1.49E-05	7.80E-04	0.402857	0.949684
2	12	GAL10	YJL212C	0.802763	2.05E-05	1.02E-03	0.384719	0.947534
2	75	GAL10	YEL071W	0.800819	2.22E-05	1.05E-03	0.380073	0.946976
2	968	GAL10	**HXT4**	-0.79662	2.63E-05	1.19E-03	-0.94577	-0.37012
2	90	GAL10	ADE4	0.785486	4.07E-05	1.76E-03	0.344146	0.942535
2	83	GAL10	**GAL3**	0.774838	6.03E-05	2.51E-03	0.319936	0.939418
2	67	GAL10	MUP3	0.772487	6.56E-05	2.58E-03	0.31467	0.938726
2	10	GAL10	FKS1	0.771798	6.72E-05	2.58E-03	0.31313	0.938523
2	178	GAL10	YOR271C	0.769461	7.30E-05	2.70E-03	0.30793	0.937833
2	969	GAL10	**HXT1**	-0.76767	7.77E-05	2.77E-03	-0.9373	-0.30397
2	66	GAL10	HIS7	0.762652	9.23E-05	3.17E-03	0.292938	0.935817
2	984	GAL10	YNL194C	-0.76125	9.68E-05	3.21E-03	-0.9354	-0.28989
2	18	GAL10	MET14	0.760331	9.99E-05	3.21E-03	0.28788	0.935127
2	396	GAL10	MAP1	0.754333	1.22E-04	3.78E-03	0.274928	0.933338

2	973	GAL10	**HXT3**	-0.75353	1.25E-04	3.78E-03	-0.9331	-0.2732
2	21	GAL10	MET16	0.741783	1.81E-04	5.18E-03	0.248381	0.929565
2	972	GAL10	**HXT6**	-0.7413	1.84E-04	5.18E-03	-0.92942	-0.24737
2	851	GAL10	YCL042W	-0.74076	1.87E-04	5.18E-03	-0.92926	-0.24625
2	710	GAL10	FLO1	-0.73838	2.01E-04	5.29E-03	-0.92854	-0.24132
2	48	GAL10	SER3	0.738336	2.01E-04	5.29E-03	0.241216	0.928522
2	23	GAL10	YGL184C	0.734282	2.28E-04	5.82E-03	0.232859	0.927291
2	721	GAL10	ACO1	-0.73312	2.36E-04	5.87E-03	-0.92694	-0.23048
2	71	GAL10	YFR055W	0.731414	2.48E-04	6.03E-03	0.226991	0.926418
2	967	GAL10	**HXT10**	-0.72357	3.11E-04	7.27E-03	-0.92402	-0.21112
2	886	GAL10	HSP30	-0.7233	3.13E-04	7.27E-03	-0.92394	-0.21059
2	902	GAL10	PIG2	-0.72208	3.25E-04	7.35E-03	-0.92356	-0.20814

(b) Kendall correlation coefficient as metric

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
2	2	GAL10	**GAL10**	1	0.00E+00	0.00E+00	1	1
2	1	GAL10	**GAL7**	0.923399	5.35E-09	2.67E-06	0.727108	0.981023
2	4	GAL10	**GCY1**	0.916201	1.27E-08	4.20E-06	0.701969	0.97899
2	3	GAL10	**GAL1**	0.902109	3.99E-08	9.95E-06	0.665053	0.975901
2	59	GAL10	**GAL2**	0.890358	1.12E-07	2.23E-05	0.628426	0.972709
2	5	GAL10	YOR121C	0.888352	1.34E-07	2.23E-05	0.621649	0.972104
2	70	GAL10	FAR1	0.88392	1.91E-07	2.72E-05	0.608116	0.970881
2	68	GAL10	YBR042C	0.861576	9.06E-07	1.13E-04	0.543174	0.964737
2	62	GAL10	YMR318C	0.850346	1.92E-06	2.13E-04	0.508566	0.961264
2	33	GAL10	MLF3	0.846696	2.15E-06	2.15E-04	0.503143	0.960706
2	20	GAL10	YEL057C	0.839114	3.73E-06	3.10E-04	0.476134	0.957873
2	22	GAL10	YPL066W	0.837635	3.72E-06	3.10E-04	0.476334	0.957895
2	11	GAL10	SSU1	0.833432	4.64E-06	3.31E-04	0.465097	0.956688
2	16	GAL10	YDR010C	0.832585	4.61E-06	3.31E-04	0.465446	0.956726
2	25	GAL10	YJL060W	0.816545	9.53E-06	6.33E-04	0.427328	0.952505
2	69	GAL10	YER130C	0.81	1.18E-05	7.35E-04	0.415702	0.951176
2	49	GAL10	SER33	0.809828	1.49E-05	7.80E-04	0.402857	0.949684
2	14	GAL10	**PCL10**	0.80916	1.38E-05	7.73E-04	0.407129	0.950183
2	76	GAL10	SER2	0.807889	1.40E-05	7.73E-04	0.406328	0.950089
2	12	GAL10	YJL212C	0.804754	2.05E-05	1.02E-03	0.384719	0.947534
2	75	GAL10	YEL071W	0.799274	2.22E-05	1.05E-03	0.380073	0.946976
2	968	GAL10	**HXT4**	-0.7948	2.63E-05	1.19E-03	-0.94577	-0.37012
2	90	GAL10	ADE4	0.781615	4.07E-05	1.76E-03	0.344146	0.942535
2	83	GAL10	**GAL3**	0.771148	6.03E-05	2.51E-03	0.319936	0.939418
2	67	GAL10	MUP3	0.766108	6.56E-05	2.58E-03	0.31467	0.938726
2	178	GAL10	YOR271C	0.763909	7.30E-05	2.70E-03	0.30793	0.937833
2	969	GAL10	**HXT1**	-0.76376	7.77E-05	2.77E-03	-0.9373	-0.30397
2	10	GAL10	FKS1	0.763363	6.72E-05	2.58E-03	0.31313	0.938523
2	66	GAL10	HIS7	0.75916	9.23E-05	3.17E-03	0.292938	0.935817
2	18	GAL10	MET14	0.759132	9.99E-05	3.21E-03	0.28788	0.935127
2	984	GAL10	YNL194C	-0.75702	9.68E-05	3.21E-03	-0.9354	-0.28989
2	396	GAL10	MAP1	0.752106	1.22E-04	3.78E-03	0.274928	0.933338

2	973	GAL10	**HXT3**	-0.74931	1.25E-04	3.78E-03	-0.9331	-0.2732
2	972	GAL10	**HXT6**	-0.74008	1.84E-04	5.18E-03	-0.92942	-0.24737
2	710	GAL10	FLO1	-0.73754	2.01E-04	5.29E-03	-0.92854	-0.24132
2	851	GAL10	YCL042W	-0.73637	1.87E-04	5.18E-03	-0.92926	-0.24625
2	21	GAL10	MET16	0.736197	1.81E-04	5.18E-03	0.248381	0.929565
2	23	GAL10	YGL184C	0.733886	2.28E-04	5.82E-03	0.232859	0.927291
2	48	GAL10	SER3	0.733739	2.01E-04	5.29E-03	0.241216	0.928522
2	721	GAL10	ACO1	-0.73219	2.36E-04	5.87E-03	-0.92694	-0.23048
2	71	GAL10	YFR055W	0.726856	2.48E-04	6.03E-03	0.226991	0.926418
2	967	GAL10	**HXT10**	-0.72176	3.11E-04	7.27E-03	-0.92402	-0.21112
2	886	GAL10	HSP30	-0.71747	3.13E-04	7.27E-03	-0.92394	-0.21059
2	902	GAL10	PIG2	-0.71562	3.25E-04	7.35E-03	-0.92356	-0.20814

STable 4. Clustering co-expressed genes with controlled FDR (5%) at a MAS level of 0.2 using "**GAL1**" as the "seed gene". (c) Pearson correlation coefficient as metric

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
3	3	GAL1	**GAL1**	1	0.00E+00	0.00E+00	1	1
3	2	GAL1	**GAL10**	0.905611	3.99E-08	1.99E-05	0.660385	0.976295
3	10	GAL1	FKS1	0.89891	7.22E-08	2.40E-05	0.639567	0.974545
3	1	GAL1	**GAL7**	0.880999	2.93E-07	7.30E-05	0.585731	0.969822
3	12	GAL1	YJL212C	0.862978	9.73E-07	1.94E-04	0.534073	0.965001
3	75	GAL1	YEL071W	0.850391	2.04E-06	3.40E-04	0.499389	0.961593
3	67	GAL1	MUP3	0.840612	3.48E-06	4.96E-04	0.4732	0.958921
3	25	GAL1	YJL060W	0.834757	4.71E-06	5.87E-04	0.457825	0.957311
3	49	GAL1	SER33	0.828453	6.44E-06	7.13E-04	0.441518	0.95557
3	70	GAL1	FAR1	0.82201	8.75E-06	8.72E-04	0.425109	0.95378
3	33	GAL1	MLF3	0.811819	1.39E-05	1.26E-03	0.399682	0.950931
3	76	GAL1	SER2	0.806732	1.73E-05	1.34E-03	0.387222	0.949499
3	59	GAL1	**GAL2**	0.80646	1.75E-05	1.34E-03	0.386559	0.949422
3	4	GAL1	GCY1	0.801956	2.11E-05	1.51E-03	0.375662	0.94815
3	90	GAL1	ADE4	0.797411	2.55E-05	1.68E-03	0.364782	0.946861
3	48	GAL1	SER3	0.794583	2.85E-05	1.68E-03	0.358072	0.946057
3	11	GAL1	SSU1	0.794538	2.86E-05	1.68E-03	0.357965	0.946044
3	68	GAL1	YBR042C	0.791153	3.27E-05	1.81E-03	0.349992	0.945079
3	5	GAL1	YOR121C	0.787008	3.84E-05	2.01E-03	0.340317	0.943893
3	867	GAL1	PYC1	-0.77351	6.33E-05	3.15E-03	-0.94	-0.30946
3	865	GAL1	DLD1	-0.77127	6.85E-05	3.25E-03	-0.93935	-0.30443
3	62	GAL1	YMR318C	0.767812	7.73E-05	3.45E-03	0.296707	0.938349
3	32	GAL1	YLL023C	0.767011	7.95E-05	3.45E-03	0.29493	0.938115
3	331	GAL1	YKL051W	0.756994	1.12E-04	4.64E-03	0.272965	0.935185
3	18	GAL1	MET14	0.755628	1.17E-04	4.66E-03	0.270009	0.934783
3	22	GAL1	YPL066W	0.750431	1.38E-04	5.30E-03	0.258846	0.933251
3	968	GAL1	**HXT4**	-0.74661	1.56E-04	5.76E-03	-0.93212	-0.25072
3	880	GAL1	ESBP6	-0.74363	1.71E-04	5.90E-03	-0.93124	-0.24442
3	83	GAL1	**GAL3**	0.743541	1.72E-04	5.90E-03	0.244243	0.93121

3	20	GAL1	YEL057C	0.739618	1.94E-04	6.31E-03	0.236028	0.930043
3	23	GAL1	YGL184C	0.739189	1.96E-04	6.31E-03	0.235135	0.929915
3	39	GAL1	YJL108C	0.735677	2.18E-04	6.80E-03	0.227848	0.928866
3	396	GAL1	MAP1	0.733052	2.36E-04	6.82E-03	0.222439	0.92808
3	16	GAL1	YDR010C	0.732812	2.38E-04	6.82E-03	0.221948	0.928008
3	889	GAL1	YNL077W	-0.73257	2.39E-04	6.82E-03	-0.92794	-0.22146
3	27	GAL1	BAG7	0.73154	2.47E-04	6.84E-03	0.219338	0.927627
3	47	GAL1	HCR1	0.730404	2.55E-04	6.88E-03	0.217016	0.927286

(d) Kendall correlation coefficient as metric

index1	index2	gene1	gene2	cor.list	p.list	q.list	lower	higher
3	3	GAL1	**GAL1**	1	7.07E-10	7.05E-07	1	1
3	1	GAL1	**GAL7**	0.705263	1.38E-05	6.75E-03	0.441859	0.968668
3	59	GAL1	**GAL2**	0.691295	2.03E-05	6.75E-03	0.37027	1
3	2	GAL1	**GAL10**	0.652632	5.74E-05	1.25E-02	0.312092	0.993172
3	12	GAL1	YJL212C	0.652632	5.74E-05	1.25E-02	0.227482	1
3	889	GAL1	YNL077W	-0.64211	7.55E-05	1.25E-02	-1	-0.27034
3	18	GAL1	MET14	0.631579	9.89E-05	1.41E-02	0.355131	0.908027
3	62	GAL1	YMR318C	0.589474	2.79E-04	3.04E-02	0.246589	0.932358
3	75	GAL1	YEL071W	0.585754	3.05E-04	3.04E-02	0.225238	0.94627
3	11	GAL1	SSU1	0.578947	3.59E-04	3.11E-02	0.234821	0.923074