

Supp. Table 1. Coevolution networks obtained with different sets of MMM parameters

MMM net #	MMM score min	MMM tolerance	Step function	Genes	Edges	Random average (st. dev.)	Known	Enrichment
All clusters containing over 10 sequences					3471 All	6022185		
					Known Physical	19854	0.33%	
					Physical+Kegg	43493	0.72%	
1	7	0.05	0.02 0.5 0.9	184 All	156			
					Known Physical	11 2.0 (1.4)	7.05%	2139%
					Physical+Kegg	23 5.4 (2.3)	14.74%	2041%
2	7	0.05	0.02 0.7 0.9	1007 All	3800			
					Known Physical	96 27.2 (5.2)	2.53%	766%
					Physical+Kegg	154 50.1 (7.1)	4.05%	561%
3	6	0.05	0.02 0.5 0.9	1103 All	2750			
					Known Physical	62 18.2 (4.3)	2.25%	684%
					Physical+Kegg	130 39.9 (6.3)	4.73%	655%
4	7	0.05	N/A	1430 All	9901			
					Known Physical	239 54.2 (7.4)	2.41%	732%
					Physical+Kegg	322 97.7 (9.9)	3.25%	450%
5	7	0.1	0.02 0.5 0.9	2055 All	28758			
					Known Physical	441 141 (11.9)	1.53%	465%
					Physical+Kegg	1027 292 (28.5)	3.57%	494%
6	6	0.05	0.02 0.7 0.9	2298 All	30614			
					Known Physical	434 113 (10.6)	1.42%	430%
					Physical+Kegg	743 239 (15.5)	2.43%	336%
7	6	0.05	N/A	2618 All	60525			
					Known Physical	841 210 (14.5)	1.39%	421%
					Physical+Kegg	1256 436 (20.9)	2.08%	287%
8	7	0.1	0.02 0.7 0.9	2840 All	182183			
					Known Physical	1969 659 (25.7)	1.08%	328%
					Physical+Kegg	3560 1359 (94.7)	1.95%	271%
9	7	0.1	N/A	2989 All	284102			
					Known Physical	2877 980 (31.3)	1.01%	307%
					Physical+Kegg	4719 2022 (45.0)	1.66%	230%
10	6	0.1	0.02 0.5 0.9	3067 All	127740			
					Known Physical	1400 446 (21.2)	1.10%	332%
					Physical+Kegg	3090 951 (30.9)	2.42%	335%
11	7	0.2	0.02 0.5 0.9	3225 All	450077			
					Known Physical	4134 1559 (39.5)	0.92%	279%
					Physical+Kegg	8508 3322 (57.7)	1.89%	262%
12	6	0.1	0.02 0.7 0.9	3251 All	496041			
					Known Physical	4030 1649 (40.7)	0.81%	246%
					Physical+Kegg	7426 3517 (59.4)	1.50%	207%
13	7	0.2	0.02 0.7 0.9	3313 All	1094269			
					Known Physical	7704 3668 (60.6)	0.70%	214%
					Physical+Kegg	14497 7823 (88.5)	1.32%	183%
14	6	0.1	N/A	3320 All	684599			
					Known Physical	5191 2251 (47.5)	0.76%	230%
					Physical+Kegg	9013 4834 (69.6)	1.32%	182%
15	7	0.2	N/A	3372 All	1361807			
					Known Physical	9022 4495 (67.1)	0.66%	201%
					Physical+Kegg	16392 9693 (98.6)	1.20%	167%
16	6	0.2	0.02 0.5 0.9	3401 All	1018718			
					Known Physical	6942 3366 (58.1)	0.68%	207%
					Physical+Kegg	14285 7247 (85.2)	1.40%	194%
17	6	0.2	0.02 0.7 0.9	3420 All	1894743			
					Known Physical	10676 6239 (79.1)	0.56%	171%
					Physical+Kegg	20701 13436 (116.0)	1.09%	151%
18	6	0.2	N/A	3440 All	2224236			
					Known Physical	11974 7318 (85.6)	0.54%	163%
					Physical+Kegg	22724 15863 (126.1)	1.02%	141%