

Additional file 7 – SEM and d-sep test for 29 network structures

No.	ID	Description	<i>GCP</i>	
			SEM	d-sep test
1	C9333	detoxification	0.193	0.230
2	C9448	amino acids	0.005	0.106
3	C9449	carbon compounds	0.001	0.000
4	C9426	colanic acid (M antigen)	0.007	0.013
5	C9509	operon	0.000	0.001
6	C9448, C9462	amino acids, formyl-THF biosynthesis	0.000	0.024
7	C9449	carbon compounds	0.000	0.001
8	C9331	motility, chemotaxis, energytaxis	0.001	0.000
9	C9340	flagella	0.014	0.000
10	C9362	nucleoproteins, basic proteins	0.000	0.000
11	C9401	tryptophan	0.000	0.000
12	C9449	carbon compounds	0.000	0.000
13	C9376	cytoplasm	0.000	0.000
14	C9449	carbon compounds	0.000	0.000
15	C9449	carbon compounds	0.002	0.000
16	C9337	SOS response	0.000	0.000
17	C9354	DNA repair	0.000	0.000
18	C9383	arginine	0.000	0.000
19	C9474	nucleotide and nucleoside conversions	0.000	0.000
20	C9493	fermentation	0.000	0.000
21	C9376	cytoplasm	0.000	0.000
22	C9393	isoleucine/valine	0.000	0.000
23	C9420	purine biosynthesis	0.000	0.000
24	C9394	leucine	0.000	0.000
25	C9504	phosphorous metabolism	NA	0.000
26	C9528	repressor	0.000	0.000
27	C9523	activator	0.000	0.000
28	C9490	anaerobic respiration	0.000	0.000
29	C9372	Transcription related	0.000	0.000

The value of '0.000' indicates that the probability was less than 0.0004, and 'NA' indicates that the probability could not be obtained due to the calculation violation.