



(a)

Function ID	MIPS ID	Function name
1	01.05.25	regulation of C-compound and carbohydrate metabolism
2	02.01	glycolysis and gluconeogenesis
3	10.03.01.01.05	S phase of mitotic cell cycle
4	10.03.05.01	spindle pole body/centrosome and microtubule cycle
5	11.02.03.04.01	transcriptional activator
6	11.04.03.01	splicing

(b)

Fig. 4: Topological shape and functional annotations of Cluster 22 in Additional file 1. (a) sub graph of Cluster 22 extracted from DIP PPI network. Each protein is annotated by MIPS functional category. (b) MIPS functional IDs and their corresponding literal names. The best assigned functional term is boldfaced.