

**Supplementary Table S4: Comparison of Core membrane protein Y2H and Core de Chasse extended PPI network attributes and KEGG pathway associations**

<b>Attributes</b>	<b>Core membrane protein Y2H network (A)</b>	<b>Core de Chassey PPI network (B)</b>
No. of genes	208	1876
No of interactions	1063	14297
Characateristic path length	2.908	2.975
Average number of neighbours	9.75	14.7
No. of enriched KEGG pathway associations ( $p \leq 0.05$ )	24	87

**Enriched KEGG pathway associations ( $p \leq 0.05$ ) common to Core networks A and B**

<b>KEGG Pathway</b>	<b>KEGG pathway ID</b>	<b>KEGG pathway type</b>
Oxidative phosphorylation	hsa00190	Energy metabolism
MAPK signaling pathway	hsa04010	Signal transduction
Apoptosis	hsa04210	Cell growth and death
Toll-like receptor signaling pathway	hsa04620	Immune system
NOD-like receptor signaling pathway	hsa04621	Immune system
RIG-I-like receptor signaling pathway	hsa04622	Immune system
Cytosolic DNA-sensing pathway	hsa04623	Immune system
T cell receptor signaling pathway	hsa04660	Immune system
Neurotrophin signaling pathway	hsa04722	Nervous system
Adipocytokine signaling pathway	hsa04920	Endocrine system
Epithelial cell signaling in Helicobacter pylori infection	hsa05120	Infectious diseases
Pathogenic Escherichia coli infection	hsa05130	Infectious diseases
Pancreatic cancer	hsa05212	Cancers
Prostate cancer	hsa05215	Cancers
Chronic myeloid leukemia	hsa05220	Cancers
Acute myeloid leukemia	hsa05221	Cancers
Small cell lung cancer	hsa05222	Cancers