

Table S1. Principal reactions of subnetwork 49 inferred from the mammalian dataset.

Reaction No.	Reactant Numbers	Pathway
R00811	C00089 + C04261 <=> C16688 + C00615	Starch and sucrose metabolism
R02630	C04261 + C00159 <=> C00615 + C00275	Fructose and mannose metabolism Amino sugar and nucleotide sugar metabolism
R02631	C04261 + C00329 <=> C00615 + C00352	Amino sugar and nucleotide sugar metabolism
R02704	C04261 + C00392 <=> C00615 + C00644	Fructose and mannose metabolism
R02738	C04261 + C00031 <=> C00615 + C00668	Glycolysis / Gluconeogenesis Amino sugar and nucleotide sugar metabolism
R02780	C01083 + C04261 <=> C00689 + C00615	Starch and sucrose metabolism
R03076	C04261 + C11477 <=> C00615 + C00934	general reaction
R03232	C04261 + C00095 <=> C00615 + C01094	Fructose and mannose metabolism
R04076	C04261 + C00247 <=> C00615 + C02888	Fructose and mannose metabolism
R04111	C04261 + C00208 <=> C00615 + C02995	Starch and sucrose metabolism
R04393	C04261 + C00243 <=> C00615 + C05396	Galactose metabolism
R04394	C04261 + C01451 <=> C00615 + C06188	Glycolysis / Gluconeogenesis
R05132	C04261 + C06186 <=> C00615 + C06187	Glycolysis / Gluconeogenesis
R05199	C04261 + C00140 <=> C00615 + C00357	Amino sugar and nucleotide sugar metabolism
R05570	C01697 + C04261 <=> C06311 + C00615	Galactose metabolism
R05820	C04261 + C00794 <=> C00615 + C01096	Fructose and mannose metabolism
R07671	C04261 + C00072 <=> C00615 + C16186	Ascorbate and aldarate metabolism
R08367	C02262 + C04261 <=> C06377 + C00615	Galactose metabolism
R08559	C02713 + C04261 <=> C16698 + C00615	Amino sugar and nucleotide sugar metabolism
R08860	C04261 + C01019 <=> C00615 + C02985	Amino sugar and nucleotide sugar metabolism
R02628	C00074 + C00615 <=> C00022 + C04261	enzyme I of the phosphotransferase system
R03921	C16688 + C00001 <=> C02336 + C00668	Starch and sucrose metabolism
R08555	C00256 + C00357 <=> C16698 + C00001	Amino sugar and nucleotide sugar metabolism
R07677	C16186 + C00001 <=> C14899	Ascorbate and aldarate metabolism
R02087	C00357 <=> C04257	Amino sugar and nucleotide sugar metabolism