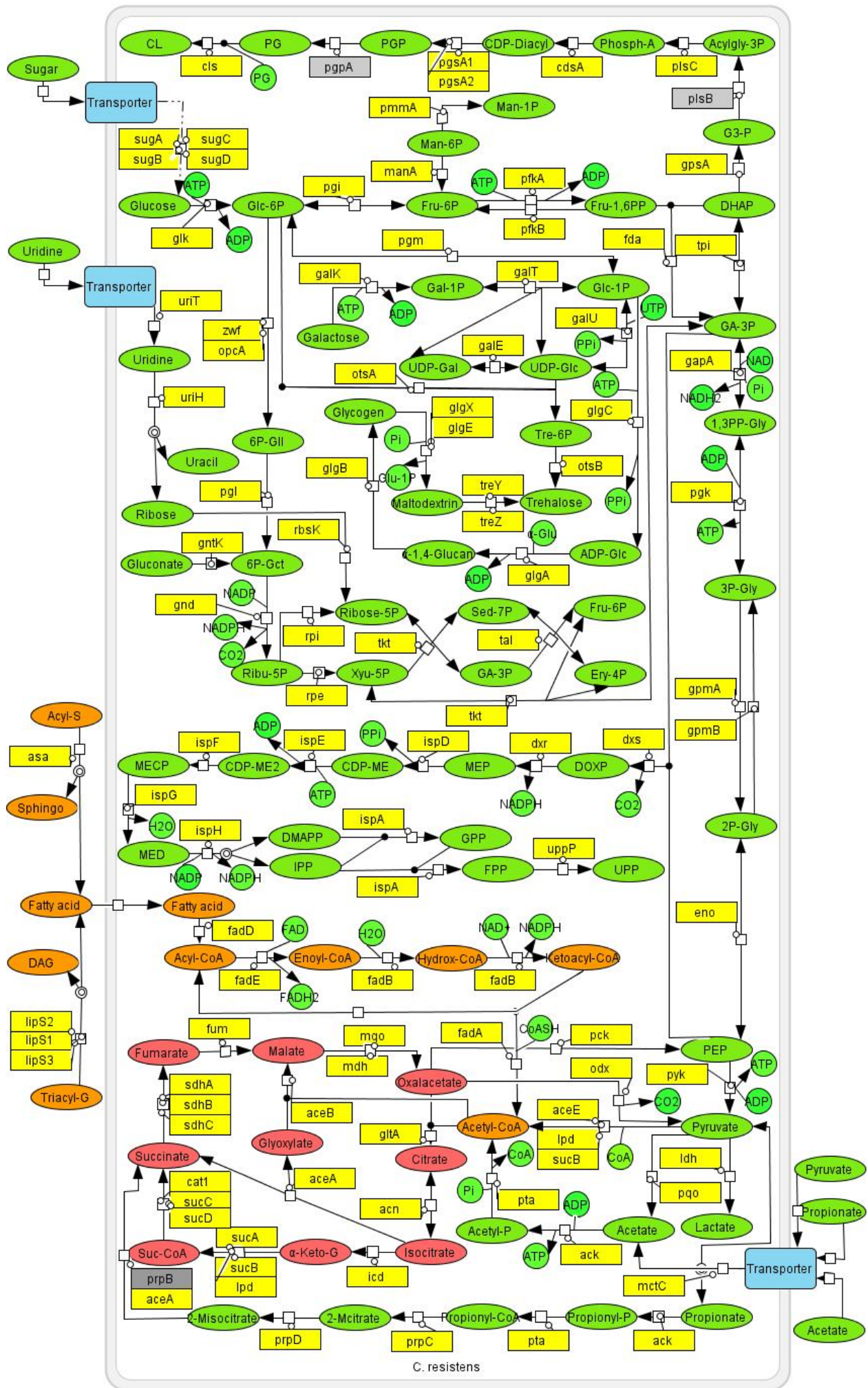




Additional file 1 Reconstruction of pathways involved in the central metabolism of *C. resistens* DSM 45100. The metabolic reconstruction was performed with manually curated pathway maps in conjunction with the bioinformatic tool CARMEN and the CellDesigner software. Metabolites are represented by ovals, whereas orange ones are involved in fatty acid metabolism and red ones are involved in the TCA cycle. Corresponding genes are displayed in yellow boxes, grey genes are lacking in the *C. resistens* genome sequence. Abbreviations for metabolites are as follows: Acetyl-P, acetyl phosphate; Acyl-CoA, acyl-Coenzyme A; Acylgly-3P, 1-acyl-glycerol-3-phosphate; Acyl-S, acyl-sphingosine; ADP, adenosine diphosphate; ATP, adenosine triphosphate; ADP-Glc, ADP-glucose; CDP-Diacyl, CDP-diacylglycerol; CDP-ME, 4-cytidyl diphospho-2C-methyl-D-erythritol; CDP-ME2, 4-cytidyl diphospho-2C-methyl-D-erythritol 2-phosphate; CL, cardiolipin; CoA/CoASH, Coenzyme A; DAG, diacylglycerol; DHAP, dihydroxyacetone phosphate; DMAPP, dimethylallyl diphosphate; DOXP, 1-deoxy-D-xylulose-5-phosphate; Enoyl-CoA, enoyl-Coenzyme A; Ery-4P, erythrose-4-phosphate; FAD, flavin-adenine-dinucleotide; FPP, farnesyl pyrophosphate; Fru-1,6PP, fructose-1,6-bisphosphate; Fru-6P, fructose-6-phosphate; Gal-1P, galactose-1-phosphate; GA-3P, glyceraldehyde-3-phosphate; Glc-1P, glucose-1-phosphate; Glc-6P, glucose-6-phosphate; GPP, geranyl pyrophosphate; G3-P, glycerol-3-phosphate; Hydrox-CoA, hydroxyacyl-Coenzyme A; Hydrox-CoA, hydroxyacyl-Coenzyme A; IPP, isopentenyl pyrophosphate; Ketoacyl-CoA, ketoacyl-Coenzyme A; Man-1P, mannose-1-phosphate; Man-6P, mannose-6-phosphate; MECP, methyl-erythritol-2,4-cycloPP; MED, hydroxyl-2-methyl-2-butenyl-4-PP; MEP, 2-C-methyl-D-erythritol 4-phosphate; NAD/NADH2, nicotinamide adenine dinucleotide; NADP/NADPH, nicotinamide adenine dinucleotide phosphate; PEP, phosphoenolpyruvate; PG, phosphoglycolate; PGP, 2-phosphoglycolate; Phosph-A, phosphatidate; Pi, phosphate; PPI, pyrophosphate; Propionyl-CoA, propionyl-Coenzyme A; Propionyl-P, propionyl phosphate; Ribose-5P, ribose-5-phosphate; Ribu-5P, ribulose-5-phosphate; Sed-7P, sedoheptulose-7-phosphate; Sphingo, sphingosine; Suc-CoA, succinyl-Coenzyme A; Tre-6-P, trehalose-6-phosphate; Triacyl-G, triacylglycerol; UDP-Gal, UDP-galactose; UDP-Glc, UDP-glucose; UPP, undecaprenyl pyrophosphate; Xyu-5P, xylulose-5-phosphate; 1,3PP-Gly, 1,3-bisphosphoglycerate; 2-Mcitrate, 2-methylcitrate; 2-Misocitrate, 2-methylisocitrate; 2P-Gly, 2-phosphoglycerate; 3P-Gly, 3-phosphoglycerate; 6P-Gct, 6-phosphogluconate; 6P-Gll, 6-phosphogluconolactone; α -keto-G; α -ketoglutarate; α -1,4-Glucan, α (1-4)glucan.