Phosphate acetyltransferase 2-Oxocarboxylic acid chain extension, 2-oxoglutarate

Pentose phosphate pathway, oxidative phase, glucose 6P => ril Entner-Doudoroff pathway, glucose-6P => glyceraldehyde-3P + D-Glucuronate degradation, D-glucuronate => pyruvate + D-glycerald D-Galacturonate degradation (bacteria), D-galacturonate => pyruvate + D-glycerald

Citrate cycle, second car Semi-phosphorylative Entner-

Citrate cycle, first car Pentose phosphate pathway,