

starch

alpha-amylase
POPTR_0014s02940.1
POPTR_0515s00220.2

glucose

ATP → ADP
hexokinase

glucose-6-phosphate

glucose-6-phosphate isomerase

fructose-6-phosphate

ATP → ADP
6-phosphofructokinase
POPTR_0017s05770.1

fructose-1,6-bisphosphate

fructose-bisphosphate aldolase
POPTR_0018s09730.1

glyceraldehyde-3-phosphate

NAD⁺ → NADH
glyceraldehyde-3-phosphate dehydrogenase
POPTR_0015s10330.2, POPTR_0012s09570.1, POPTR_0010s06560.1

1,3-bisphosphoglycerate

ADP → ATP
phosphoglycerate kinase
POPTR_0010s17870.1, POPTR_0008s08400.1

3-phosphoglycerate

phosphoglycerate mutase
POPTR_0006s11400.1, POPTR_0016s14950.1

2-phosphoglycerate

H₂O → enolase
POPTR_0015s14380.1, POPTR_0006s11800.1

phosphoenolpyruvate

ADP → ATP
pyruvate kinase

pyruvate

UDP → UDP-glucose
sucrose synthase
POPTR_0018s07380.1

fructose

PPi → UTP-glucose-1-phosphate
uridylyltransferase

glucose-1-phosphate

phosphoglucomutase

