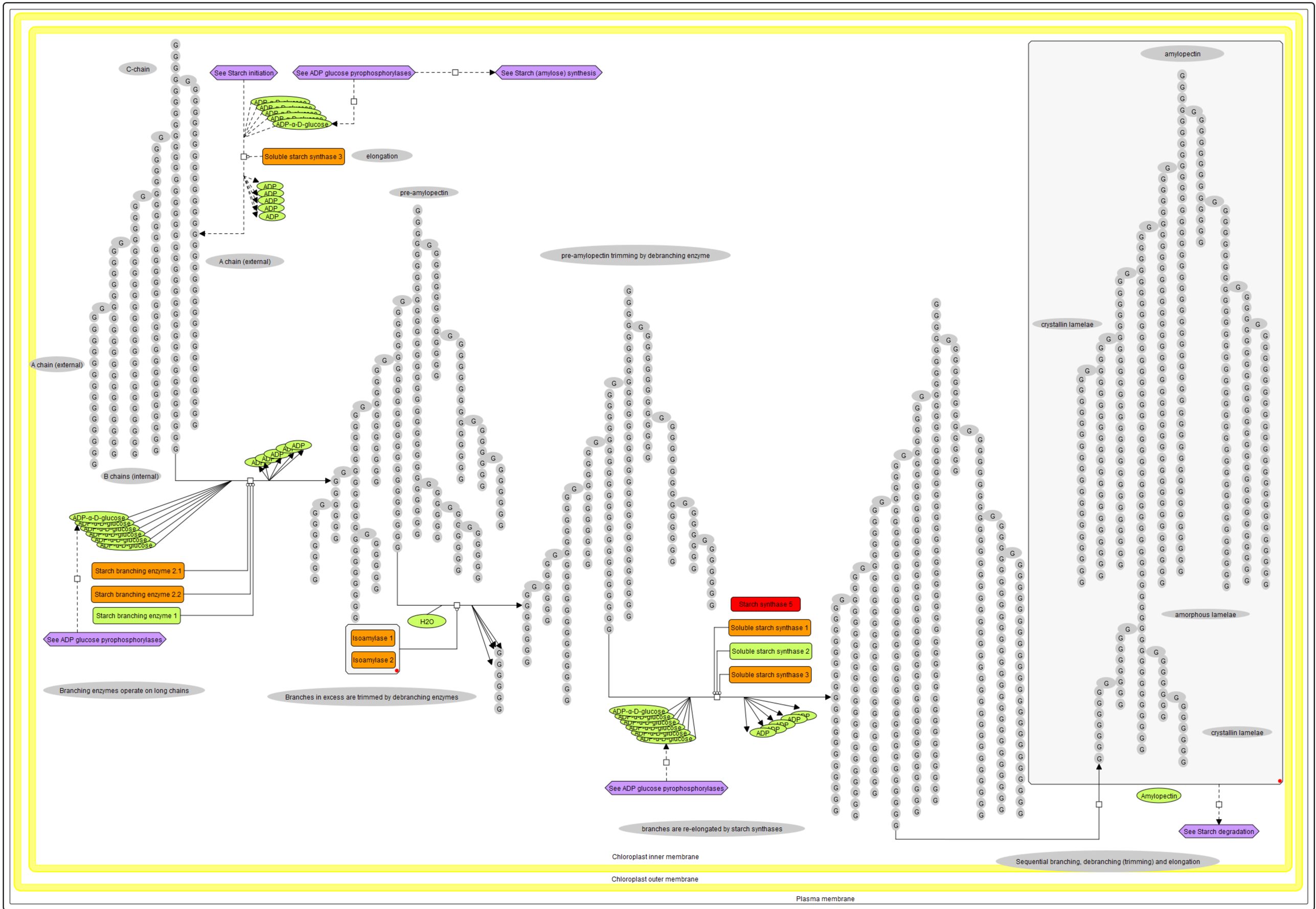
C-chain
See Starch initiation
See ADP glucose pyrophosphorylases
See Starch (amylose) synthesis
ADP-α-D-glucose
Soluble starch synthase 3
elongation
ADP
pre-amylopectin
A chain (external)
pre-amylopectin trimming by debranching enzyme
amylopectin
crystallin lamelae
A chain (external)
B chains (internal)
ADP-α-D-glucose
Starch branching enzyme 2.1
Starch branching enzyme 2.2
Starch branching enzyme 1
See ADP glucose pyrophosphorylases
Branching enzymes operate on long chains
H2O
Isoamylase 1
Isoamylase 2
Branches in excess are trimmed by debranching enzymes
Starch synthase 5
Soluble starch synthase 1
Soluble starch synthase 2
Soluble starch synthase 3
ADP-α-D-glucose
See ADP glucose pyrophosphorylases
branches are re-elongated by starch synthases
amorphous lamelae
crystallin lamelae
Amylopectin
See Starch degradation
Sequential branching, debranching (trimming) and elongation
Chloroplast inner membrane
Chloroplast outer membrane
Plasma membrane