



CARBON FIXATION

- ▼ **K14534** 4-hydroxybutanoyl-CoA dehydratase (DH cycle/HH cycle)
- **K14470** Mesoacetyl-CoA C1-C4 CoA transferase (3-HP bicycle)
- ▼ **K03520** Aerobic carbon-monoxide dehydrogenase large subunit (CO oxidation)
- ▼ **K03519** Aerobic carbon-monoxide dehydrogenase medium subunit (CO oxidation)
- ▼ **K03518** Aerobic carbon-monoxide dehydrogenase small subunit (CO oxidation)
- ▲ **K01601** RubisCO large chain (Calvin Cycle)
- ▲ **K01602** RubisCO small chain (Calvin Cycle)

PHOTOSYNTHESIS

- ▲ **K08907** Light-harvesting complex I chlorophyll *a/b* binding protein 1 (Oxy. photosynthesis)
- ▲ **K02703** Photosystem II P680 reaction center D1 protein (Oxy. photosynthesis)
- ▲ **K02689** Photosystem I P700 chlorophyll *a* apoprotein A1 (Oxy. photosynthesis)
- ▲ **K02641** Ferredoxin-NADP⁺ reductase (Oxy. photosynthesis)
- **K02636** Cytochrome *b6-f* complex iron-sulfur subunit (Oxy. photosynthesis)

NITROGEN METABOLISM

- ▲ **K10534** Nitrate reductase NADH (Assim. nitrate reduction)
- ▼ **K04561** Nitric oxide reductase (cytochrome *c*) (Denitrification)
- ▼ **K02567** Periplasmic nitrate reductase NapA (Denitrification)
- ▼ **K00376** Nitrous oxide reductase (Denitrification)
- ▼ **K00368** Nitrite reductase (NO-forming) (Denitrification)
- ▼ **K10944** Ammonia monooxygenase (Nitrification)

SULFUR METABOLISM

- **K00956** Sulfate adenylyltransferase subunit 1 (Assim. / Dissim. sulfate reduction)
- **K00957** Sulfate adenylyltransferase subunit 2 (Assim. / Dissim. sulfate reduction)
- ▼ **K00958** Sulfate adenylyltransferase (Assim. / Dissim. sulfate reduction)
- ▼ **K00390** Phosphoadenylyl-sulfate reductase (Assim. sulfate reduction)
- **K00394** Adenylylsulfate reductase, subunit A (Dissim. sulfate reduction)
- **K00395** Adenylylsulfate reductase, subunit B (Dissim. sulfate reduction)