Title: Heme Biosynthesis Organism: Danio rerio succinyl-CoA glycine alas1 alas2 rate limiting step CoA CO2 delta-aminolevulinate delta-aminolevulinate zgc:110219 H20 Porphobilinogen porphobilinogen H20 **HMBS** NH3 hydroxymethylbilane uros H20 uroporphyrinogen III urod CO2 coproporphyrinogen III 02 cpox CO2 protoporphyrinogen IX 02 ppox H2O2 protoporphyrin IX Fe2+ fech H+

protoheme

Black - reactants

Red - side products