GLUTATHIONE METABOLISM K00682 5-Oxoproline 🍳 L-Glutamate Cysteine and Taurine and hypotaurine metabolism methionine L-Amino acid®◀ metabolism Glutamate K00682 L-Cysteine VVV metabolism **P**C@9 Cyanoamino acid métabolism L-y-Glutamyl **►©**Glycine PepN K07751 K11142 K01270 L-Cysteinyl y-Glutamyl glycine cycle Glutathione disulfide (GSS C00051 1.8.1.13 **►** O Bis-y-glutamylcystine Glutathione L-y-Glutamylcysteine (GSH) Glycir@%7 COPRX L-Glutamate®⁵ PepN 🗘 Acetyl-CoA K11140.. NADPH NADP+ 2.3.1.80 R-S-Cysteinyl-K07751 K01270 R-S-Cysteine R-S-Glutathione Mercapturic acid glycine NADP+ 1.8.3.3 NADPH 1.8.4.1 | 1.8.4.4 | 2.8.1.3 K04283 K01833 1.8.5.1 1.8.4.3 1.8.4.7 K01833 Dehydroascomate Ascorbate Putrescine © 👱 💇 Spermidine Q007 TryS rypanothione disulfide K01833 Glutathionyl-Tryparothione K11185.. K11207 spermidine L-Omithine 💇 K00802 Tryparedoxin disulfide Tryparedoxin Trypanothione K11185... Arginine biosynthesis metabolism °ФSpermine Glutathionyl-Bis(glutathionyl)spermine spermine K04283 Bis(glutathionyl)spermine disulfide K01833 K01833 TcTrySTcTryR K01833 K04283 Homotrypanothione disulfide K01833 Cadaverine 22 TcTryS Aminopropyl-Glutathionyl-Homotrypanothione aminopropyl-cadaverine cadaverine 00480 7/14/15 (c) Kanehisa Laboratories