PYRIMIDINE METABOLISM PRPP Pentose phosphate pathway **6000**19 Dihydro-⊥o∘UDP-glucose (extracellular) K17828... 3.6.1.8 Orotidine-5P orofate N-Carbamoyl EW15_1812 EW15_0666 K00226 Pseudouridine-5'-phosphate 2',3'-Cyclic UMP L-aspartate 3.6.1.8 **├─⊙** UppppU EW15_0288 3'-UMF UTP K01518 K01511... O Pseudouridine (extracellular) EW15_0325 EW15_1721 K01119... K01510... Carbamoyl-P UMP Ŭ UTP K13800... K17722... EW15_1882 EW15_1087 EW15_0063 K01431... β-Alanine metabolism **FO** EW15_0620 K01240 **▲** UDP 3-Ureidoβ-Alanine Uridine Dihydrouracil K01510... EW15_0909. propionate EW15_0864.. 3.6.1.39 EW15_0337 Arginine Barbiturate Malonate -Glutamine K01513... biosynthesis | 1.1799.4|**--▶°⊙≪**-EW15_2248 (extracellular) 3-Oxo-3-ureido-K01513... propanoate EW15_1782 **Ò**°Urea 3.6.1.8 K01510. Ureidoacrylate ₩ RNA K01510... K13800.. Alanine, aspartate and ytosine EW15_1087 K09020 glutamate metabolism EW15_1882... EW15_1747 EW15_0063 EW15_2111 K10213 CTP Cytidine Carbamate Malonate-EW15_1721 3.2.2.10 semialdehyde K01119... K01119.. **O**4 3-Hydroxy-(Z)-3-Peroxy-(Z)-3-Ureidoacrylate-Aminoacrylate 3'-CMP 2',3'-Cyclic CMP K00527 K21636 àminoacrylate propionate hm5dCDP hm5dCTP peracid K19797 K00527 K21636 hm5dCMP K18942 K13800... dCMP EW15_0063 K00893... Deoxycytidine EW15_2111 dCTP ၨႚၯၴၫ dCDP hm5C in DNA K16904 EW15_1747 K16904 K08722 K01489 K09887 K00756 EW15_0337 K01493 EW15_0002. K01520 K00757 Deoxyuridine 🛶 K03783... EW15_0063 K00857 EW15_0217 K00758 3.6.1.39 dUMP O Urea dUTP EW15_1747 5-Methylbarbiturate K08722 | 1.1799.4|**--▶℃** K00560.. EW15_0336 EW15_0762 EW15_1782 C(2376 3-Oxo-3-ureido-isobutyrate Methylmalonate 5-Methylcytosine EW15_1747 °Ø¹UDP K08722 K17722.. K08728 Valine, leucine and EW15_0002.. K00857 DNA°© isoleucine metabolism K01510.. K00758 K00207 Thymidine ♠ dTMP (R)-3-Amino-isobutyrate (R)-Dihydro-(R)-3-Ureido-Thymine isobutyrate thymine 3.6.1.39 2-Deoxy-D-nbose-1P K01513... 00240 5/11/17 (c) Kanehisa Laboratories