PYRIMIDINE METABOLISM PRPP Pentose phosphate pathway Dihydro-_**ு**UDP-glucose (extracellular) K17828... 3.6.1.8 Orotidine-5P orofate N-Carbamoyl PMT_1402 K00226 Pseudouridine-5'-phosphate 2',3'-Cyclic UMP L-aspartate 3.6.1.8 **├─⊙** UppppU PMT_2094 3'-UMF UTP K01518 K01511... O Pseudouridine (extracellular) PMT_1377 K01119... K01510... Carbamoyl-P UMP **▼** UTP K13800... K17722... PMT_1442.. K00876 PMT_2148 β-Alanine metabolism **FO** PMT_1244 K01240 **▲** UDP 3-Ureidoβ-Alanine Uridine Dihydrouracil K01510... PMT_0653... propionate PMT_0558... 3.6.1.39 PMT_1828 Arginine Barbiturate Malonate -Glutamine K01513... biosynthesis | 1.1799.4|**--▶°⊙≪**-PMT_2219 (extracellular) 3-Oxo-3-ureido-K01513... propanoate PMT_0326 **Ò**°Urea K01510. 3.6.1.8 Ureidoacrylate ₩ RNA K01510... K13800.. Alanine, aspartate and ytosine K00876 K09020 glutamate metabolism PMT_1442... PMT_0366 PMT_2148 PMT_1689 K10213 CTP Cytidine Carbamate Malonate-PMT_1377 3.2.2.10 semialdehyde K01119... K01119.. **O**4 3-Hydroxy-(Z)-3-Peroxy-aminoacrylate (Z)-3-Ureidoacrylate-Aminoacrylate 3'-CMP 2',3'-Cyclic CMP propionate K00527 K21636 PMT_0793 hm5dCDP hm5dCTP peracid K19797 K00527 K21636 hm5dCMP K18942 K13800... dCMP K00893... Deoxycytidine dCTP ၨႚၯၴၫ dCDP hm5C in DNA K16904 PMT_0366 K16904 K08722 K01489 K09887 K00756 PMT_1828 K01493 PMT_0001. K01520 K00757 Deoxyuridine 🛶 K03783... K00857 PMT_1990 K00758 3.6.1.39 dUMP O Urea dUTP PMT_0366 5-Methylbarbiturate K08722 | 1.1799.4|**--▶℃** K00560.. PMT_1550 PMT_0793 PMT_0326 C(276_ 3-Oxo-3-ureido-isobutyrate Methylmalonate 5-Methylcytosine PMT_0366 °ÖÜDP K08722 K08728 Valine, leucine and PMT_2148 DNA°**©³⁴**-PMT_0001. K00857 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