PHOSPHOTRANSFERASE SYSTEM (PTS) Phosphoenol-pyruvate Phosphoenol-pyruvate Pyruvate Pyruvate 0-0 **₽**O **₽**O K02784 K11183 ↓+p ▼ +p +p Gk family Fru family Fru family Fructose 1-phosphate Glucose OH K02778... K02769.. K02777 Mannitol 🗨 🕨 K02798.. Fructose O K02768 ►O² Glucose 6-phosphate ►O⁴ Mannitol 1-phosphate ▶O° 2-O-(6-Phospho-α-mannosyl) -D-glycerate 2-O-α-Mannosyl[©]O⁴ K11198.. N-Acetyl-Deo_ N-Acetyl-D-K02802... D-glycerate glucosamine 6-phosphate glucosamine Man family Nitrogen regulation Maltose 🍑 ► K02790. №07 Maltose 6-phosphate K02795 Mannose O ►O° Mannose 6-phosphate Phosphoenol-K02796 prinvate Pyruvate ►⊙[∞] D-Glucosamine 6-phosphate D-Glucosamine C K02763.. 0 **FO** Fructoselysine lo K19508 K19506 Fructoselysine 6-phosphate / Glucoselysine 6-phosphate K08484 Glucoselysine K19509 K19507 Sucrose O KO2808. 🕶🗢 Sucrose-6-phosphate K11196 K11194 ►O⁴ Fructose 1-phosphate Fructose O K02771 K11195 β-Glucosides O¹³ ► K02755... **▶○**° Phospho-β-glucoside K08485 K02814 K02812 Vipintiu\varterior Arbutin 6-phosphate Salicin 6-phosphate Sorbose O ►O° Sorbose 1-phosphate K02752.. K02815 K02813 +p Salicin K02746 K02744 N-Acetyl- og galactosamine N-Acetyl-galactosamine 6-phosphate Trehalose O KO2818. Nitrogen 💇 🕨 K02806 K02777. Trehalose 6-phosphate K02747 K02745 N-Acetyl- OB K11191... ►⊙® N-Acetylmuramic acid K10985 K02744 Galactosamine Galactosamine 🞾 6-phosphate K10984 6-phosphate Arbutin Con K02750 K17466 ►O[™] Arbutin 6-phosphate D-Glucosaminate K02749 D-Glucosaminate 👁 K17465 6-phosphate Lac family Other family Lactose Cara K02787... K02781 K02786 ►O° Lactose 6-phosphate Sorbitol 💇 🕨 🗝 Sorbitol 6-phosphate K02782 K02759 K02773 Cellobiose[©] ► K02761 ₩ Galactitol 🍑 🟲 ►O¹ Galactitol 1-phosphate K02774 K02821 L-Ascorbate 🗢 🗲 L-Ascorbate 6-phosphate K02822 02060 7/29/15 (c) Kanehisa Laboratories