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PATRIC Gene ID	Product	Phase variant	
		Smooth	Rough
645463.3.peg.3413	Pyruvate kinase	Essential	Non-essential
645463.3.peg.3106	PTS system, N-acetylglucosamine	Essential	Non-essential
645463.3.peg.2553	Aromatic amino acid aminotransferase	Non-essential	Essential
645463.3.peg.2255	Aromatic amino acid aminotransferase	Non-essential	Essential
645463.3.peg.169	4-Hydroxyphenylacetate decarboxylase activating enzyme	Non-essential	Essential

