

Table S4

Pathway Map	Phylogeny	Running Time (hr)	Acceptance Percentage
Glycolysis / Gluconeogenesis (MAP00010)	((pfs,pfo),pfl)	6.33 ± 0.55	14.11 ± 0.04
	(pst,(psb,psp))	4.96 ± 0.18	33.28 ± 1.25
	17 <i>Pseudomonas</i> strains	44.41 ± 8.16	1.02 ± 0.06
Pentose phosphate pathway (MAP00030)	((pfs,pfo),pfl)	12.37 ± 0.69	5.36 ± 0.04
	(pst,(psb,psp))	10.16 ± 0.31	19.74 ± 0.34
	17 <i>Pseudomonas</i> strains	90.02 ± 8.25	1.01 ± 0.04
Lysine degradation (MAP00310)	((pfs,pfo),pfl)	6.45 ± 0.99	27.26 ± 0.21
	(pst,(psb,psp))	6.19 ± 0.88	23.65 ± 0.21
	17 <i>Pseudomonas</i> strains	38.47 ± 7.87	2.10 ± 0.72
Histidine metabolism (MAP00340)	((pfs,pfo),pfl)	5.52 ± 0.52	22.23 ± 0.31
	(pst,(psb,psp))	5.65 ± 0.36	22.91 ± 0.30
	17 <i>Pseudomonas</i> strains	29.54 ± 7.21	1.08 ± 0.09
Phenylalanine metabolism (MAP00360)	((pfs,pfo),pfl)	9.39 ± 0.84	15.47 ± 0.21
	(pst,(psb,psp))	9.20 ± 0.85	14.16 ± 0.09
	17 <i>Pseudomonas</i> strains	52.49 ± 5.04	1.59 ± 0.07
Pyruvate metabolism (MAP00620)	((pfs,pfo),pfl)	23.76 ± 1.92	8.66 ± 0.06
	(pst,(psb,psp))	24.20 ± 2.05	15.13 ± 0.24
	17 <i>Pseudomonas</i> strains	98.01 ± 9.10	1.29 ± 0.03