

1 **Table S1. Growth rates of wild-type, mutants and complemented strains in M9 plus various substrates**

Strains	Growth rate (μ , h ⁻¹)			
	M9P	M9G	M9M	M9SE
BSB168	0.25 ± 0.08	0.74 ± 0.04	0.83 ± 0.05	0.52 ± 0.08
TC58	- ^b	0.67 ± 0.03	0.80 ± 0.04	0.52 ± 0.08
TC60	- ^b	0.70 ± 0.03	0.80 ± 0.05	0.49 ± 0.04
TC61	- ^b	0.71 ± 0.01	0.78 ± 0.04	0.52 ± 0.05
TC62	- ^b	0.72 ± 0.03	0.79 ± 0.04	0.53 ± 0.05
TC73 ^a	0.28 ± 0.07	0.67 ± 0.02	0.78 ± 0.03	0.56 ± 0.03
TC74 ^a	0.25 ± 0.05	0.66 ± 0.02	0.81 ± 0.02	0.47 ± 0.06
TC75 ^a	0.26 ± 0.04	0.62 ± 0.07	0.76 ± 0.05	0.45 ± 0.06
TC76 ^a	0.25 ± 0.05	0.65 ± 0.06	0.76 ± 0.04	0.47 ± 0.08

2 ^a the growth medium was supplemented with IPTG 200 μ M for functional complementation.

3 ^b cryptic growth (*i.e.* non exponential growth and low biomass final titer, see **Figure 1A**).

4

5