

S1 Table The level of metabolites for both mutants compared to the wild type in the central carbon metabolism in *P. putida* DOT-T1E. Metabolites were detected and identified by GC-MS.

Variable No	Metabolites ID	The level of metabolites*	
		M2 vs. M1	M3 vs. M1
14	Alanine	up	Down
20	Valine	n/c	Up
29	Leucine	n/c	Up
34	Isoleucine	n/c	Up
40	Glycine	down*	n/c
53	Threonine	n/c	up*
54	Serine	n/c	Down
78	Aspartic Acid	down	Down
81	Methionine	down	Up
88	Glutamine	n/c	down*
95	Phenylalanine	n/c	up*
103	Fumarate	n/c	Up
109	Citrate	down	n/c
119	Lysine	up	n/c
135	Tyrosine	n/c	Up
177	Tryptophan	down	up*

*See explanation in Figure S3, M1: DOT-T1E, M2: DOT-T1E-PS28, M3: DOT-T1E-18, n/c: no change