

**Table S1. Bacterial multicomponent monooxygenases operon of *Cupriavidus metallidurans* strain CH34 and other Proteobacteria.**

Classification by		Operon	BMMs	Organism	Location	Accession N°
Notomista et al., 2003	This study					
Group I	Clade IA	<i>phyZABCDE</i>	Phenol hydroxylase	<i>Cupriavidus metallidurans</i> CH34	C1	CP000352
		<i>phlK1L1M1N1O1P1</i>	Phenol hydroxylase	<i>Cupriavidus pinatubonensis</i> JMP134	C1	NC_007347
		<i>dmpKLMNOPQ</i>	Phenol hydroxylase	<i>Sphingobium phenoxylbenzoativorans</i> SC_3	-	KX823580
		<i>phyZABCDE</i>	Phenol hydroxylase	<i>Ralstonia</i> sp. KN1	-	AB031996
	Clade IIB	<i>tbmABCDEF</i>	Toluene/benzene 2-monooxygenase	<i>Burkholderia cepacia</i> JS150	-	L40033
		<i>tbc1ABCDEF</i>	Phenol hydroxylase	<i>Burkholderia cepacia</i> JS150	-	AF282897
		<i>phlK2L2M2N2O2P2</i>	Phenol hydroxylase	<i>Cupriavidus pinatubonensis</i> JMP134	C2	NC_007348
		<i>aphKLMNOP</i>	Phenol hydroxylase	<i>Comamonas testosteroni</i> TA441	-	NZ_BKBW01000011
		<i>tomA0A1A2A3A4A5</i>	Toluene 2-monooxygenase	<i>Cupriavidus metallidurans</i> CH34	C1	CP000352
		<i>tomA0A1A2A3A4A5</i>	Toluene 2-monooxygenase	<i>Burkholderia vietnamensis</i> G4	pBVIE04	CP000620
	Clade IC	<i>dmpKLMNOP</i>	Phenol hydroxylase	<i>Alcaligenes aquatilis</i> QD168	C	CP032153
		<i>dmpKLMNOP</i>	Phenol hydroxylase	<i>Pseudomonas putida</i> CF600	pVI150	AB910524
		<i>phhKLMNOP</i>	Phenol hydroxylase	<i>Pseudomonas putida</i> P35X	-	X79063
Group II	-	<i>tbc2ABCDEF</i>	Toluene/benzene 2-monooxygenase	<i>Burkholderia cepacia</i> JS150	-	AF282898
		<i>tbuA1UBVA2C</i>	Toluene-3-monooxygenase	<i>Ralstonia pickettii</i> PKO1	-	AY541701
		<i>tbcABCDEF</i>	Toluene monooxygenase	<i>Cupriavidus pinatubonensis</i> JMP134	C2	NC_007348
		<i>tmoABCDEF</i>	Toluene monooxygenase	<i>Cupriavidus metallidurans</i> CH34	C1	CP000352
		<i>tmoABCDEF</i>	Toluene-4-monooxygenase	<i>Pseudomonas mendocina</i> KR1	-	AY552601
		<i>tmoABCDEF</i>	Toluene-3-monooxygenase	<i>Pseudomonas</i> sp. M4	-	KJ735680