

**Table S4.** Putative genes involved in cobalamin biosynthesis in the genomes of organohalide-respiring bacteria tested in this study and *Desulfoluna spongiiphila* strain AA1

Gene Abbrev.	Functional Role	<i>H. marinisediminis</i>	<i>Dur. kysingii</i>	<i>Dvi. bizertensis</i>	<i>Dlu. spongiiphila</i>
		Gene ID	Gene ID	Gene ID	Gene ID
<i>CbiK</i>	Sirohydrochlorin cobaltochelatase	2587791438	2599543416	2568540274	2656131771
		2587789883		2568540624	2656134271
<i>CbiL</i>	Cobalt-precorrin-2 C20-methyltransferase	2587791434	2599543414 2599543411	2568540270	2656134277
<i>CbiH</i>	Cobalt-precorrin-3b C17-methyltransferase	2587790554	2599543408	2568541449	2656134283
<i>CbiG</i>	cobalt-precorrin 5a hydrolase	2587790553	2599543409	2568541450	2656134282
<i>CbiF</i>	Cobalt-precorrin-4 C11-methyltransferase	2587791567	2599543410	2568541455	2656134281
<i>CbiD</i>	Cobalt-precorrin-6 synthase	2587791569	2599543413	2568540852	2656134279
<i>CbiJ</i>	Cobalt-precorrin-6x reductase	-	2599543407	-	-
<i>CbiET</i>	Cobalt-precorrin-6y C5-methyltransferase	2587791568	2599543412	2568540853	2656134280
			2599544127		
<i>CbiC</i>	Cobalt-precorrin-8x methylmutase	2587790573	2599543417	2568538875	2656134276
<i>CbiA</i>	Cobyric acid a,c-diamide synthase	2587790574	2599543418	2568540851	2656134105
		2587790682		2568541122	2656134275
<i>CobA</i>	Uroporphyrinogen-III methyltransferase	2587791030	2599543419 2599542566	2568541128	2656130579
<i>CbiP</i>	Cobyric acid synthase	2587792387	2599542341	2568541166	2656134285
<i>CobD</i>	L-threonine 3-O-phosphate decarboxylase	2587792472	-	-	2656134288
<i>CbiB</i>	Adenosylcobinamide-phosphate synthase	2587789560	2599542342	2568541021	2656134290
<i>CobU</i>	Adenosylcobinamide-phosphate guanylyltransferase	2587790455	2599542338	2568541742	2656134286
<i>CobC/CbiY</i>	Alpha-ribazole-5'-phosphate phosphatase	2587791323	2599544128	2568539480	2656131162
<i>CobT</i>	Nicotinate-nucleotide-dimethylbenzimidazole phosphoribosyltransferase	2587790664	2599542339	2568541109	2656129606
<i>CobS</i>	Cobalamin synthase	2587791095	2599542340	2568540769	2656134287
		2587792173		2568539740	
-	Glutamyl-tRNA synthetase	2587792331	2599544587	2568538920	2656132446
		2587790117		2568540059	2656133606
<i>HemA</i>	Glutamyl-tRNA reductase	2587790085	2599542568	2568540320	2656134349
<i>HemB</i>	Porphobilinogen synthase	2587791660	2599542565	2568539875	2656134423
<i>HemC</i>	Porphobilinogen deaminase	2587792401	2599542567	2568541682	2656130578
<i>HemE</i>	Uroporphyrinogen decarboxylase	-	2599542026	2568539509	2656134671
		-		2656131981	
		-		2656129945	
		-		2656133015	
<i>HemL</i>	Glutamate-1-semialdehyde aminotransferase	2587790552	2599544468	2568541451	2656131384
				-	2656132659
				-	2656133626
<i>HemN</i>	Oxygen-independent coproporphyrinogen-3 oxidase	2587790636	2599541825	2568539183	2656130302
			2599544729		2656132734
<i>HemY</i>	Protoporphyrinogen oxidase	-	2599542035	-	2656132719
		2587791554	-	2568539455	2656132238
<i>CbiM,N,O,Q</i>	Cobalt/nickel transport system protein	2587792083	2599541849	2568540623	2656132234
		2587792081		2568540622	2656130427
		2587792082		2568541056	2656132235
		-		-	2656132237
<i>BtuBCDF</i>	Vitamin B12/Fe3+ ABC transporter, permease component	2587791435	2599542344	2568539097	2656131763
		-	-	2568539554	2656134273
		-	-	2568540272	2656131826
		-	2599542345	2568539555	2656131825
		-	-	2568539098	2656131764
		2587791436	2599542346	2568540273	2656134272
<i>BtuR</i>	Cob(I)alamin adenosyltransferase	-	2599542346	2568539556	2656131765
		-	2599542347	2568539099	2656131828
		2587791437	-	2568540271	2656134274
<i>CysG</i>	Siroheme synthase / Precorrin-2 oxidase	2587790087	-	2568540318	2656131122
<i>CysG</i>	Siroheme synthase / Precorrin-2 oxidase	2587790087	-	2568540318	2656134347