

Table S2: ArcS/HptA orthologous proteins within the genus *Shewanella*

Species name	ArcS		HptA	
	identity/ similarity	locus name	identity/ similarity	locus name
<i>Shewanella oneidensis</i> MR-1	100/100	SO_0577	100/100	SO_1327
<i>Shewanella</i> sp. MR-7	98/99	ShewMR7_3453	97/99	ShewMR7_2951
<i>Shewanella</i> sp. MR-4	98/99	ShewMR4_0577	97/99	ShewMR4_2826
<i>Shewanella</i> sp. ANA-3	98/99	Shewana3_0576	95/98	Shewana3_3047
<i>Shewanella baltica</i> OS223	94/97	Sbal223_3731	88/94	Sbal223_3133
<i>Shewanella baltica</i> OS185	94/97	Shew185_3788	88/94	Shew185_1224
<i>Shewanella baltica</i> OS195	94/97	Sbal195_3914	88/94	Sbal195_1257
<i>Shewanella baltica</i> OS155	94/97	Sbal_0537	88/94	Sbal_1180
<i>Shewanella</i> sp. W3-18-1	94/97	SputW3181_0641	89/91	SputW3181_3026
<i>Shewanella putrefaciens</i> CN-32	94/97	SputCN32_3300	89/91	Sputcn32_1138
<i>Shewanella putrefaciens</i> 200	94/97	Sput200_2419	89/91	Sput200_3565
<i>Shewanella sediminis</i> HAW-EB3	84/92	Ssed_0627	82/88	Ssed_1128
<i>Shewanella loihica</i> PV-4	83/92	Shew_0459	83/88	Shew_1034
<i>Shewanella halifaxensis</i> HAW-EB4	84/91	Shal_3789	84/88	Shal_1063
<i>Shewanella amazonensis</i> SB2B	84/92	Sama_3129	78/82	Sama_0859
<i>Shewanella pealeana</i> ATCC 700345	83/91	Spea_3702	83/89	Spea_1015
<i>Shewanella woodyi</i> ATCC 51908	82/91	Swoo_4322	81/88	Swoo_1223
<i>Shewanella piezotolerans</i> WP3	82/91	Swp_0570	83/89	Swp_3081
<i>Shewanella frigidimarina</i> NCIMB 400	80/90	Sfri_3502	77/89	Sfri_2949
<i>Shewanella denitrificans</i> OS217	77/88	Sden_0538	81/88	Sden_2789