

Methylibium petroleiphilum	1	MNPSCCPAPADGLPATTPRAARHAQWWLAGYATAVVAVTSVHDPRLVLAGLILGLALAASGS
Alkalilimnicola ehrlichei	1	-----MTMTATWGLEAYLAAVVAGLLHAPTSLASALVVTLVLSGP
Anaeromyxobacter dehalogenans	1	-----MASPDFRRERILLAGWLAFAFSAVTDLRALGLAALAAVAFR
Anaeromyxobacter sp. Fw109-5	1	-----MRLPEPRRSQILLALWAIAVFGVSAITTI PALGIAALLAGALLWR
Caminibacter mediatlanticus	1	-----MKQISEILFFFLLSLKKIEYLSVLALLIVFTYK
Sulfurimonas denitrificans	1	-----MSDRAWLFVYLGAVVILGFVHNEWIMFTCIITITVALCGG

Methylibium petroleiphilum	61	TRWRVLRRALLAVLAFFNLVSLSGLYLGVSILWQG--AFRPAYLVLVNLRVLLIVFLGFWEVS
Alkalilimnicola ehrlichei	42	GRLALLRRALGMVAAPALVTSVGYGVMILISG--APDWVYLLRINLRITLLTVLTAWMLR
Anaeromyxobacter dehalogenans	46	GMARLARVARLVLPVILAMSALSWAFRLGAPAAPLPQFFLALAAARTLLLAFLAFSVLA
Anaeromyxobacter sp. Fw109-5	46	GALAAARRVLRSVLPLTVALSASAGWLRIVSGRWDPATPFAALALRAAVISFVTFAALA
Caminibacter mediatlanticus	36	DFFTLSKKVLKSIILFSGVVSIGYLIMGLFTK---IYPDYLLYINLKVFTITITYFVWFSS
Sulfurimonas denitrificans	40	ARFKIFTKALFVIALFNLSISLSYIIYSFFVD---VDIFALVLINLRFAITLLTFTLVR

Methylibium petroleiphilum	119	RVNVLQALSFSPPTLSFVATLAVGQVTVFLRVLRDFERLAFVSRNPGREWSDRARNASAQA
Alkalilimnicola ehrlichei	100	DLDLAAALAPWPFGARRWLGLVRIQLAIFRRLGQEVRLAQRSRQRAKPLRERYRTCAALG
Anaeromyxobacter dehalogenans	106	RVNLLRALAPWPAATRLVVVALAQIHALLRLATESADGLRSRIPRPGPLDVVRNASGIT
Anaeromyxobacter sp. Fw109-5	106	RIDLFRALAPFPTASRLVLTLAQVHALRLLATDSLGLRSRMLRREGPVDVARGAGGIT
Caminibacter mediatlanticus	93	KVNIVEFFSFNKEFSYLLTISLSQIYSYKKTFFEDERMAFKSRVINLRE--KEYDFIRNTF
Sulfurimonas denitrificans	97	RINLHKALEFNKILAILYGFTYAQIMLLKNMLYNYDGLKSRG-TTLKTSITKKQLQPL

Methylibium petroleiphilum	179	THLLDKSVASAAEASLAMRSRGCFDD-
Alkalilimnicola ehrlichei	160	LAALDKAMHNSEALTQGMRSRGVFNER
Anaeromyxobacter dehalogenans	166	AALLVLAVRNAREVSDAMRSRGF----
Anaeromyxobacter sp. Fw109-5	166	GALLTLSMKNARDVSDAMRSRGF----
Caminibacter mediatlanticus	151	AFFFKALNDAKEKSLAMKSRGFFEN-
Sulfurimonas denitrificans	156	TTLFGTMLHKSSSEQSMGLCSRGLIDD-