

*S\_oneidensis*\_MR-1\_dmsB  
*S\_oneidensis*\_MR-1\_SO\_4357  
*S\_sp.*\_LZH-2\_JM642\_14185  
*S\_xiamenensis*\_NUI7M-VS1\_NUITMVS1\_29530  
*S\_putrefaciens*\_strain\_FDAARGOS\_681\_FOB89\_20610  
*S\_sp.*\_MR-4\_Shewm4\_3678  
*S\_fidelis*\_ATCC-BAA-318\_L884\_L884\_RS0114165  
*S\_piezotolerans*\_WP3\_SWP\_RS15445  
*S\_schlegeliana*\_strain\_JCM\_JMA39\_11561\_RS09485  
*S\_marisflavi*\_strain\_EP1\_CFF01\_RS01170  
*S\_japonica*\_strain\_KCTC\_22435\_SJ2017\_RS00810  
*S\_sp.*\_SUN\_WT4\_FJQ87\_RS02765  
*S\_sp.*\_MBTL60-112-B2\_K5Q73\_RS09515  
*S\_sp.*\_MBTL60\_112\_B1\_K5Q83\_RS07015  
*S\_enrypsychrophilus*\_strain\_YLB-08\_FM038\_RS01265  
*S\_enrypsychrophilus*\_strain\_YLB-08\_FM038\_RS01530  
*S\_enrypsychrophilus*\_strain\_YLB-08\_FM038\_RS23495  
*S\_enrypsychrophilus*\_strain\_YLB-08\_FM038\_RS23530  
*S\_sp.*\_YLB\_09\_FS418\_RS01250  
*S\_sp.*\_YLB\_09\_FS418\_RS01515  
*S\_sp.*\_YLB\_09\_FS418\_RS02870  
*S\_sp.*\_YLB\_09\_FS418\_RS03135  
*S\_sp.*\_YLB\_09\_FS418\_RS25025  
*S\_sp.*\_YLB\_09\_FS418\_RS25060  
*S\_sp.*\_WPAGA9\_IGB07\_RS19230  
*S\_sp.*\_ARC9\_LZ\_GUY17\_RS19095  
*S\_psychromarinicola*\_strain\_M2\_EGC80\_RS00655  
*S\_psychromarinicola*\_strain\_M2\_EGC80\_RS06750  
*S\_psychromarinicola*\_strain\_M2\_EGC80\_RS11435  
*S\_sp.*\_Actino-trap-3\_CXF80\_RS10110  
*S\_sp.*\_Actino-trap-3\_CXF80\_RS15640  
*S\_livingstonensis*\_strain\_LMG\_19866\_EGC82\_RS20510  
*Ferrimonas*\_lipolytica\_strain\_S7\_HER31\_RS14685  
*Ferrimonas*\_lipolytica\_strain\_S7\_HER31\_RS15970  
*Ferrimonas*\_lipolytica\_strain\_S7\_HER31\_RS04975  
*S\_sp.*\_ISTPL2\_CCLCJOKE\_1\_HUB64\_RS13990  
*S\_sp.*\_8A\_M2897\_RS06505  
*S\_woodyi*\_ATCC\_51908\_Swoo\_0234  
*Ferrimonas*\_balerica\_DSM\_9799\_Fbal\_2475  
*Ferrimonas*\_balerica\_DSM\_9799\_Fbal\_3622  
*S\_frigidimarina*\_NCIMB\_400\_Sfri\_3127  
*S\_frigidimarina*\_NCIMB\_400\_Sfri\_3683  
*S\_sediminis*\_HAW-EB3\_Ssed\_0230  
*S\_sediminis*\_HAW-EB3\_Ssed\_0349  
*S\_sediminis*\_HAW-EB3\_Ssed\_0358  
*S\_sediminis*\_HAW-EB3\_Ssed\_1308  
*S\_sediminis*\_HAW-EB3\_Ssed\_1405  
*S\_sediminis*\_HAW-EB3\_Ssed\_2922  
*S\_sp.*\_KX20019\_JK628\_RS15595  
*S\_sp.*\_KX20019\_JK628\_RS20555  
*Ferrimonas*\_sp.\_SCSIO\_43195\_J8Z22\_RS00575  
*Ferrimonas*\_sp.\_SCSIO\_43195\_J8Z22\_RS11610  
*Pseudomonas*\_sp.\_SCT\_BHD08\_RS22420(idrB)  
*Denitromonas*\_sp.\_IR12\_IRJ34\_RS03785(idrB)

1...MTQQT..QYGFYFDSSSKCTGCKTCHIACKDRMTGLVRAKDDVMNNGVA...NLPGI  
1...MQEPT..QYGFYVDTTKCSGCKTQVACKDRSD.....IEVGK  
1...MTQQT..QYGFYFDSSSKCTGCKTCHIACKDRMTGLVRAKDDVMNNGVA...NLPGI  
1...MTQQT..QYGFYFDSSSKCTGCKTCHIACKDRMTGLVRAKDDVMNNGVA...NLPGI  
1...MTQQT..QYGFYFDSSSKCTGCKTCHIACKDRMTGLVRAKDDVNLNGVA...NLPGI  
1...MTQET..QYGFYFDSSSKCTGCKACHIACKDRMTGLIRANDG..NGSVA...NLPGV  
1...MTEAT..QYGFYVDSTKCTGCKACHVSCKDRQGNEIRNNTNPEQNGVP...ALNGV  
1...MTEPT..QYGFYVDSTKCTGCKACHVSCKDRQGSNEIRNNSNPQDNTLP...ALNGV  
1...MTEPT..QYGFYVDSTKCTGCKACHVSCKDRQGNEIRNNTNPEANGVP...ALNGV  
1...MTEQT..QYGFYLDTTKCTGCKACHVSCKDRQGDIIIR.TTTSPEQGIP...ALTGV  
1...MSDAI..QYSFYVDSTKCTGCKACHISCKDRQGEQIRNATKPVENGVP...SLNGV  
1...MTQPT..QYGFYVDTTKCTGCKACHVSCKDRQADTIRATHNPMNGGVP...SLAGV  
1...MTEAT..QYGFYVDSTKCTGCKACHVSCKDRQGNEIRNNTNPEQNGVP...ALNGV  
1...MTEAT..QYGFYVDSTKCTGCKACHVSCKDRQGNEIRNNTNPEQNGVP...ALNGV  
1...MTQAT..QYGFYVDSTKCSGCKACHVSCKDRQGSNEIRNNSNPEGNALP...ALEGV  
1MTKATENQ..AFAFYFDASRCNCKGQVSCLDGRG.....LSLDR  
1...MTQ..QYGFYVDVATCSGCKTGMVSCDKNDKND.....LEIGR  
1.....M..QLGFYVDTEICSGCKACHVSCDKNDKND.....LNVGR  
1...MTQAT..QYGFYVDSTKCSGCKACHVSCKDRQGSNEIRNNSNPEGNALP...ALEGV  
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1...MTQAT..QYGFYVDSTKCSGCKACHVSCKDRQGSNEIRNNSNPEGNALP...ALEGV  
1MTKATENQ..AFAFYFDASRCNCKGQVSCLDGRG.....LSLDR  
1...MTQ..QYGFYVDVATCSGCKTGMVSCDKNDKND.....LEIGR  
1.....M..QLGFYVDTEICSGCKACHVSCDKNDKND.....LNVGR  
1...MSDAI..QYSFYVDSTKCTGCKACHISCKDRQGEQIRNATKPVENGVP...SLNGV  
1...MTQET..QLGFYFDSSSKCTGCKTCHIACKDRMVGKTRSKDDVTNQGV...AMPGM  
1...MSNNI..QYGFHVDASKCTGCKTQISCKDRKD.....LPVGI  
1...MTQET..QLGFYFDSSSKCTGCKTCHIACKDRMVGITRKNDDVSTQGV...ALPGM  
1...MADSF..QLGFHFDSSSKCSGCKADIIICKSKFD.....AKPTQ  
1...MSNNI..QYGFHVDASKCTGCKTQISCKDRKD.....LPVGI  
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1...MTDST..QYGFYDITAKCTGCKTCHIACKDRKD.....LPLGI  
1...MTEQV..QFGFFIDTTKCTGCKTCHVACKDDNSRLATGSILPDGSNEPTNLMPEVG  
1...MTDET..QLAFHFDQTKCNCKACHMACKVKLE.....SNLNE  
1...MTQQT..QYGFYFDSSSKCTGCKTCHIACKDRMTGLVRVKDDVNLNGVA...NLPGI  
1...MTQQT..QYGFYFDSSSKCTGCKTCHIACKDRMTGLVRAKDDVMNNGVA...NLPGI  
1...MTQPT..QYGFYVDSTKCTGCKACHVSCKDRQGSNEIRNNSNPEGNALP...ALEGV  
1...MMEKTTQYGFYFDASRCSGCKACHVACKDRMN.....APEGV  
1...MNEPK..QYGFYVDTTKCTGCKTCHVSCKDRKD.....LPKDV  
1...MSNNI..QYGFHVDASKCTGCKTQISCKDRKD.....LPVGI  
1...MTEQT..QYGFYLDTTKCTGCKACHISCKDRQGDIIIR.KTNPIEQGV...ALEGI  
1...MTQPT..QYGFYVDSTKCSGCKACHVSCKDRQGSNEIRNNSNPEGNALP...ALEGV  
1...MSNNI..QYGFHVDASKCTGCKTQVSCKDRKD.....LPVGI  
1.....M..QLGFYVDTSICSGCKACHVSCDKNDKND.....LNVGR  
1...MTNNT..QYGFHYDASKCNCKGCHIIICKSRFD.....GEDGV  
1...MTDKI..QYGFYVDTTKCTGCKTQVACKDRSD.....LSLGV  
1...MSNNV..QYGFYVDSSSKCTGCKTQVTCCKDRKD.....LPVGI  
1...MTEAT..QYGFYVDSTQCTGCKACHVSCKDRQGSNEIRNNSNPQDNTLP...ALDGV  
1...MSNNI..QYGFHVDASKCTGCKTQISCKDRKD.....LPVGI  
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1...MSDNK..QYGFYVDSTKCTGCKTQISCKDRSD.....LPVGV  
1...MSENIPVRAVPAHDHEHDERACMS.....  
1...MTTHPIHLH...HDDPAHGERACMS.....

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S\_piezotolerans\_WP3\_SWP\_RS15445  
S\_schlegeliana\_strain\_JCM\_JMA39\_11561\_RS09485  
S\_marisflavi\_strain\_EP1\_CFF01\_RS01170  
S\_japonica\_strain\_KCTC\_22435\_SJ2017\_RS00810  
S\_sp.\_SUN\_WT4\_FJQ87\_RS02765  
S\_sp.\_MBTL60-112-B2\_K5Q73\_RS09515  
S\_sp.\_MBTL60\_112\_B1\_K5Q83\_RS07015  
S\_enrypsychrophilus\_strain\_YLB-08\_FM038\_RS01265  
S\_enrypsychrophilus\_strain\_YLB-08\_FM038\_RS01530  
S\_enrypsychrophilus\_strain\_YLB-08\_FM038\_RS23495  
S\_enrypsychrophilus\_strain\_YLB-08\_FM038\_RS23530  
S\_sp.\_YLB\_09\_FS418\_RS01250  
S\_sp.\_YLB\_09\_FS418\_RS01515  
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S\_sp.\_YLB\_09\_FS418\_RS25060  
S\_sp.\_WPAGA9\_IGB07\_RS19230  
S\_sp.\_ARC9\_LZ\_GUY17\_RS19095  
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S\_psychromarinicola\_strain\_M2\_EGC80\_RS06750  
S\_psychromarinicola\_strain\_M2\_EGC80\_RS11435  
S\_sp.\_Actino-trap-3\_CXF80\_RS10110  
S\_sp.\_Actino-trap-3\_CXF80\_RS15640  
S\_livingstonensis\_strain\_LMG\_19866\_EGC82\_RS20510  
Ferrimonas\_lipolytica\_strain\_S7\_HER31\_RS14685  
Ferrimonas\_lipolytica\_strain\_S7\_HER31\_RS15970  
Ferrimonas\_lipolytica\_strain\_S7\_HER31\_RS04975  
S\_sp.\_ISTPL2\_CCLCJOKE\_1\_HUB64\_RS13990  
S\_sp.\_8A\_M2897\_RS06505  
S\_woodyi\_ATCC\_51908\_Swoo\_0234  
Ferrimonas\_balerica\_DSM\_9799\_Fbal\_2475  
Ferrimonas\_balerica\_DSM\_9799\_Fbal\_3622  
S\_frigidimarina\_NCIMB\_400\_Sfri\_3127  
S\_frigidimarina\_NCIMB\_400\_Sfri\_3683  
S\_sediminis\_HAW-EB3\_Ssed\_0230  
S\_sediminis\_HAW-EB3\_Ssed\_0349  
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S\_sediminis\_HAW-EB3\_Ssed\_1308  
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S\_sediminis\_HAW-EB3\_Ssed\_2922  
S\_sp.\_KX20019\_JK628\_RS15595  
S\_sp.\_KX20019\_JK628\_RS20555  
Ferrimonas\_sp.\_SCSIO\_43195\_J8Z22\_RS00575  
Ferrimonas\_sp.\_SCSIO\_43195\_J8Z22\_RS11610  
Pseudomonas\_sp.\_SCT\_BHD08\_RS22420(idrB)  
Denitromonas\_sp.\_IR12\_IRJ34\_RS03785(idrB)

52 IWRRVVEYGGGNWSQN.VDGSFE..QNVFAYYMSIGCNHCSQPVCVKACPTGAMHKRRE  
37 QWRRTYEYCGGNWTAD.GQGAYH..QDVFAYYISISCNHCSNPVCVKACPTGAMHKERS  
52 IWRRVVEYGGGNWSQN.IDGSFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
52 IWRRVVEYGGGNWSQN.LDGSFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
50 LWRRVVEYGGGNWSQN.GDGSFE..QNVFAYYMSIGCNHCNEPVCVKACPTGAMHKRRE  
52 LWRRVVEYGGGNWSQN.ADGSFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
52 TWRRVVEYGGGQWTEG.QNGCFE..QSVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
52 TWRRVVEYGGGEWTVG.NNGCFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
52 TWRRVVEYGGGQWTEG.QNGCFE..QSVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
51 NWRRVVEYGGGSWSTN.ADGSFE..QNVFTYYASISCNHCSEPVCVKACPTGAMHKRRE  
52 NWRRVVEYGGGTWNVDPATGTTFE..QDVFAYYMSVGCNHCSEPVCVKACPTGAMHKRRE  
52 TWRRVVEYGGGECSMNPATKVFE..NNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
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35 NFRRVVEYAGGSCSEN.ANGVLS..QSVFAYYVSMACNHCDTPACTKACPTGAMYKEPE  
33 NFRRVVEYAGGSCSTDN.GNGVFS..QSVFAYYTSISCNHCDIPACTKACPTGAMHKRPE  
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33 NFRRVVEYAGGSCSTDN.GNGVFS..QSVFAYYTSISCNHCDIPACTKACPTGAMHKRPE  
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52 LWRRVVEYGGGSWDQN.GDESYN..QNVFAYYASVGCNHCNEPVCVKACPTGAMHKRKE  
37 NWRRVVEYGGGQWTEH.GDGTVS..QNVFAYYLSIACNHCSEPVCVKACPTGAMHKRRE  
52 LWRRVVEYGGGTWEQN.SDESYE..QNIFAYYASIGCNHCNEPVCVKACPTGAMHKRKE  
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37 KWRRVVEYFGGGQWTEH.ENGSPD..QDVYSYYVSLGCNHCSENPVCVKACPTGACYKRSQ  
55 KWRRVVEYFGGTMTGN.GKGAFTGFSGVFSYYASIGCNHCSEHPVCVQACPTGACHKRQK  
37 IPRRVVEYVGGGCVDN.GDNTFT..TTVFYYTSVGCNHCSEPVCVKACPTGAMYQAS  
52 IWRRVVEYGGGSWSLN.GDGSFE..QNVFAYYMSIGCNHCNEPVCVKACPTGAMHKRRE  
52 IWRRVVEYGGGNWSQN.IDGSFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
52 TWRRVVEYGGGEWTVG.NNGCFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRQ  
39 IPRRVVEYSGGGFIRD.EQGAMT..ASVFSYYTSVGCNHCSEHPVCVKACPTGACHKRSRS  
37 KWRRVVEYGGGSWQEN.ADGSVE..QNVFSYYVSIGCNHCSENPVCVKACPTGAMHKRRS  
37 NWRRVVEYGGGQWTEH.GDGTVS..QNVFAYYMSIACNHCSEPVCVKACPTGAMHKRRE  
51 NWRRVVEYGGGDWSTN.ADGSFE..QNVFSYYTSISCNHCNEPVCVKACPTGAMHKRRE  
52 TWRRVVEYGGGEWTKG.NNGCFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
37 NWRRVVEYGGGQWTEH.GDGTVS..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
33 NFRRVVEYAGGSCSTDN.GNGVFS..QSVFAYYTSISCNHCDTPACTKACPTGAMHKRSE  
37 IPRRVVEYVGGGYADN.NDGTVT..SNTFAYYTSISCNHCSEPVCVKACPTGAMHKRSK  
37 KWRRVVEYGGGSWTEH.EDGTFT..NNVFAYYTSISCNHCSEHPVCVKACPTGACHKRKS  
37 NWRRVVEYGGGLWTEH.ADGTVN..QNVFAYYTSIGCNHCSEPAACVKACPTGAMHKRQK  
52 TWRRVVEYGGGDWTVG.NNGCFE..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
37 NWRRVVEYGGGQWTEH.GDGTVS..QNVFAYYMSIGCNHCSEPVCVKACPTGAMHKRRE  
40 HFRRVVEYAGGTFQSQ.ADGVMM..QSAFAYYLSVSCNHCDEPACTKACPTGAMHKRTD  
37 NFRRVVEYFGGQWTRK.EDGTAT..QNVFAYYASISCNHCSEPVCVKACPTGAMHKRRS  
27 ..RRRFLFEGGTSVALLSIASLP..G.VAQVMQALKADYARQIRIGSLAKLTGEPLDFN  
24 ..RRSFLLAGG...AMVTLASLP..GTAVAAALKALKADYPAVKIGKLSRLKTGEPLLEFA

S_oneidensis_MR-1_dmsB	108	DGLVQVATELCIGCESCARACPYDAPQLDIERKVMTKCDGCSDR.....LAEGKKP
S_oneidensis_MR-1_SO_4357	93	TGLVKVNQDLCIGCESCARACPYDAPQIDPQRKVMTKCDGCSDR.....VAKGLKP
S_sp._LZH-2_JM642_14185	108	DGLVQVATELCIGCESCARACPYDAPQLDIERKVMTKCDGCSDR.....LAEGKKP
S_xiamenensis_NUITM-VS1_NUITMVS1_29530	108	DGLVQVATELCIGCESCARACPYDAPQLDIERKVMTKCDGCSDR.....LAEGKKP
S_putrefaciens_strain_FDAARGOS_681_FOB89_20610	108	DGLVQVATELCIGCESCARACPYDAPQLDIERKVMTKCDGCSDR.....LAEGKKP
S_sp._MR-4_Shewmr4_3678	106	NGLVLVESLICIGCESCARACPYDAPQLDTRKVMTKCDGICYDR.....LADGKKP
S_fidelis_ATCC-BAA-318_L884_L884_RS0114165	108	DGLVHVAQDLCIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IAEGRKP
S_piezotolerans_WP3_SWP_RS15445	108	DGLVHVVAEDICIGCESCSRACPYDAPQIDRERKVMTKCDGCFER.....IADGRKP
S_schlegeliana_strain_JCM_JMA39_11561_RS09485	108	DGLVHVAQDLCIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IAEGRKP
S_marisflavi_strain_EP1_CFF01_RS01170	107	DGLVHVATELCIGCSSCAKACPYDAPQLDTERKVMTKCDGICYDR.....LAEGKQP
S_japonica_strain_KCTC_22435_SJ2017_RS00810	109	DGLVLVAEELCIACESCSRACPYDAPQLDQERKVMTKCDGICYDR.....LAEGRKP
S_sp._SUN_WT4_FJQ87_RS02765	109	DGLVHVAQDLCIGCESCARACPYDAPQIDRERKVMTKCDGICYER.....LAEGKKP
S_sp._MBTL60-112-B2_K5Q73_RS09515	108	DGLVMVHDDICIGCSSCAQACPYDAPQIDRERKVMTKCDGCFER.....IADGRKP
S_sp._MBTL60_112_B1_K5Q83_RS07015	108	DGLVHVAQDLCIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IADGRKP
S_enrypsychrophilus_strain_YLB-08_FM038_RS01265	108	DGLVHIASELICIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IADGRKP
S_enrypsychrophilus_strain_YLB-08_FM038_RS01530	96	.GIVAVHDDICIGCNSCAEACPYDAPQLDKTRGKMTKCDGCFER.....LEFGLKP
S_enrypsychrophilus_strain_YLB-08_FM038_RS23495	91	RGLVLVHDDICIGCNACAQACPYDAPQMDTERSMTKCDGQCQR.....LNVLGKP
S_enrypsychrophilus_strain_YLB-08_FM038_RS23530	89	DGLVMVHDDICIGCSSCAQACPYDAPQLDEARGKMTKCDGCFER.....LNAGKQP
S_sp._YLB_09_FS418_RS01250	108	DGLVHIASELICIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IADGRKP
S_sp._YLB_09_FS418_RS01515	96	.GIVAVHDDICIGCNSCAEACPYDAPQLDKTRGKMTKCDGCFER.....LEFGLKP
S_sp._YLB_09_FS418_RS02870	108	DGLVHIASELICIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IADGRKP
S_sp._YLB_09_FS418_RS03135	96	.GIVAVHDDICIGCNSCAEACPYDAPQLDKTRGKMTKCDGCFER.....LEFGLKP
S_sp._YLB_09_FS418_RS25025	91	RGLVLVHDDICIGCNACAQACPYDAPQMDTERSMTKCDGQCQR.....LNVLGKP
S_sp._YLB_09_FS418_RS25060	89	DGLVMVHDDICIGCSSCAQACPYDAPQLDEARGKMTKCDGCFER.....LNAGKQP
S_sp._WPAGA9_IGB07_RS19230	109	DGLVLVAEELCIACESCSRACPYDAPQLDQERKVMTKCDGICYDR.....LAEGRKP
S_sp._ARC9_LZ_GUY17_RS19095	108	DGLVLVQESLCIGCESCSRACPYDAPQIDIERKVMTKCDGCFDR.....LAEGKKP
S_psychromarinicola_strain_M2_EGC80_RS00655	93	DGLVHVVAADLCIGCESCARACPYDAPQIDKDRKVMTKCDGCFER.....LAEGKQP
S_psychromarinicola_strain_M2_EGC80_RS06750	108	DGLVLVQESLCIGCESCSRACPYDAPQIDIERKVMTKCDGCSDR.....LAEGKKP
S_psychromarinicola_strain_M2_EGC80_RS11435	93	NGLVKIEASLCIGCGSCSRACPYDAPQMDPVRKVMTKCDGCEDE.....VSRGEKP
S_sp._Actino-trap-3_CXF80_RS10110	93	DGLVHVVAADLCIGCESCARACPYDAPQIDKDRKVMTKCDGCFER.....LAEGKQP
S_sp._Actino-trap-3_CXF80_RS15640	108	DGLVLVQESLCIGCESCSRACPYDAPQIDIERKVMTKCDGCSDR.....LAEGKKP
S_livingstonensis_strain_LMG_19866_EGC82_RS20510	108	DGLVLVQESLCIGCESCSRACPYDAPQIDIERKVMTKCDGCFDR.....LAEGKKP
Ferrimonas_lipolytica_strain_S7_HER31_RS14685	93	DGLVLIDDSVCIGCESCSRACPYDAPQIDADRGMVTKCDGICYER.....LAEGKQP
Ferrimonas_lipolytica_strain_S7_HER31_RS15970	113	DGLVHIDQNVICIGCQSCERACPYDAPQFDNDRGMVTKCDGICYDHIDTDLISIPLASRRKP
Ferrimonas_lipolytica_strain_S7_HER31_RS04975	93	DGLVKIDQSVICIGCGSCAQACPYDAPQLDTARQVMTKCDGCSDR.....LAQKQKP
S_sp._ISTPL2_CCLCJOKE_1_HUB64_RS13990	108	DGLVQVATELCIGCESCARACPYDAPQLDIERKVMTKCDGCSDR.....LAQGKKP
S_sp._8A_M2897_RS06505	108	DGLVQVATELCIGCESCARACPYDAPQLDIERKVMTKCDGCSDR.....LAEGKKP
S_woodyi_ATCC_51908_Swoo_0234	108	DGLVHVAQDLCIGCESCARACPYDAPQIDSERKVMTKCDGCFER.....IAEGRKP
Ferrimonas_balerica_DSM_9799_Fbal_2475	95	TGLVSIDRGVVICIGASCARACPYDAPQLNQATGTMMKCDGCAADR.....LAEGKAP
Ferrimonas_balerica_DSM_9799_Fbal_3622	93	DGLVHVDDQICVGCACARACPYDAPQIDKDRGMVTKCDGICYER.....IAENRKP
S_frigidimarina_NCIMB_400_Sfri_3127	93	DGLVHVVAADLCIGCESCARACPYDAPQIDKDRKVMTKCDGCFER.....LAEGKQP
S_frigidimarina_NCIMB_400_Sfri_3683	107	DGLVLVHTDLCIGCNSCAEACPYDAPQLDPQRKVMTKCDGICYDR.....LAQKQKP
S_sediminis_HAW-EB3_Ssed_0230	108	DGLVHVAQELCIGCESCARACPYDAPQIDRERKVMTKCDGCFER.....IAEGRKP
S_sediminis_HAW-EB3_Ssed_0349	93	DGLVHVVAADLCIGCESCARACPYDAPQIDKDRKVMTKCDGICYER.....LAEGKQP
S_sediminis_HAW-EB3_Ssed_0358	89	DGLVMIHDDICIGCSCEQACPYDAPQLDEARGKMTKCDACIDR.....LNAGKQP
S_sediminis_HAW-EB3_Ssed_1308	93	DGLVHVSSDLCIGCSSCAKACPYDAPQLDPVKKVMVKCDGCFEL.....IAEGRKP
S_sediminis_HAW-EB3_Ssed_1405	93	DGLVHIEASLCVGCQSCSRACPYDAPQFDSERGVMTKCDGICYDR.....LEQGLNP
S_sediminis_HAW-EB3_Ssed_2922	93	DGLVHVASDLCIGCESCARACPYDAPQIDKARKVMTKCDGCFER.....LAEGKNP
S_sp._KX20019_JK628_RS15595	108	DGLVHVAQDLCIGCESCSRACPYDAPQIDRERKVMTKCDGICYER.....IAEGRKP
S_sp._KX20019_JK628_RS20555	93	DGLVHVATDLCIGCESCARACPYDAPQIDKERKVMTKCDGICYER.....LAEGKQP
Ferrimonas_sp._SCSIO_43195_J8Z22_RS00575	96	.GLVAIHSDICIGCASCAEACPYDAPQLEVSQQVMTKCDGCAER.....LAYNLPP
Ferrimonas_sp._SCSIO_43195_J8Z22_RS11610	93	DGLVMVDPQVICIGCESCARACPYDAPQIDTAGVMTKCDGCVER.....IELGRKP
Pseudomonas_sp._SCT_BHD08_RS22420(idrB)	81	YPYPDVR.NILVKLGVAAGGGIGADKDIVAFNQCTHMGGPLDG.....TYKAEH
Denitromonas_sp._IR12_IRJ34_RS03785(idrB)	76	YPYPDVN.NILVKLGAEAGGGVGPQADVAFNQCTHMGGPLQG.....TYKAKH

S_oneidensis_MR-1_dmsB	159	ICVDS	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	R	N	G	O	P	V	G	.								
S_oneidensis_MR-1_SO_4357	144	SCVMS	CQORALDFGLIAELK	QQY	GN...	DSDISG	LP	SSS	ITHP	NL	V	L	K	V	H	A	K	S...	G	Q	.									
S_sp._LZH-2_JM642_14185	159	ICVDS	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	R	N	G	O	P	V	G	.								
S_xiamenensis_NUITM-VS1_NUITMVS1_29530	159	ICVDS	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	R	N	G	O	P	V	G	.								
S_putrefaciens_strain_FDAARGOS_681_FOB89_20610	159	ICVDS	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SAS	ITSP	NLI	I	K	A	N	R	N	G	O	P	I	G	.								
S_sp._MR-4_Shewmr4_3678	157	ICVNA	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SSS	ITSP	NL	I	V	K	N	P	N	A	Q...	.	.	.	.								
S_fidelis_ATCC-BAA-318_L884_L884_RS0114165	159	VCVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHIAP	LP	PES	ITSP	NLI	I	K	A	N	V	N	G...	.	.	.	.	.								
S_piezotolerans_WP3_SWP_RS15445	159	VCVES	CPLRALDFDFTMDNLR	EKY	GDG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	S	P	A	G	S								
S_schlegelliana_strain_JCM_JMA39_11561_RS09485	159	VCVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHIAP	LP	PES	ITSP	NLI	I	K	A	N	V	H	G...	.	.	.	.	.								
S_marisflavi_strain_EP1_CFF01_RS01170	158	ICVGS	CPLRALDFDFTMDNLR	AKY	GNS..	DGHVAP	LP	PES	ITSP	NLI	I	K	A	N	K	H	G...	.	.	.	.	.								
S_japonica_strain_KCTC_22435_SJ2017_RS00810	160	VCVES	CPLRALDFDFTMDNLR	AKY	GSG..	DGHIAP	LP	NPS	ITTP	NLI	I	K	A	N	R	N	G	O	P	A	G	G								
S_sp._SUN_WT4_FJQ87_RS02765	160	TCVES	CPLRALDFDFTMDNLR	EAKY	GKG..	DSHIAP	LP	SPA	ITSP	NLI	I	K	A	N	R	H	G	O	P	A	G	S								
S_sp._MBTL60-112-B2_K5Q73_RS09515	159	VCVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHIAP	LP	PES	ITSP	NLI	I	K	A	N	V	N	G...	.	.	.	.	.								
S_sp._MBTL60_112_B1_K5Q83_RS07015	159	VCVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHIAP	LP	PES	ITSP	NLI	I	K	A	N	V	N	G...	.	.	.	.	.								
S_entrpsychrophilus_strain_YLB-08_FM038_RS01265	159	VCVES	CPLRALDFDFTMDNLR	EKY	GDG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	R	P	S	G	S								
S_entrpsychrophilus_strain_YLB-08_FM038_RS01530	146	FCVQS	CSQRALDCGTVDDEL	QAKY	GGAPGV	GHIAP	LP	DAG	ITQP	NLI	I	R	G	A	K	C	S	R	P	T	G	D								
S_entrpsychrophilus_strain_YLB-08_FM038_RS23495	142	MCVAS	CIHRALDFGPIEELR	QKYG...	ATAETAP	LP	PAS	VTKP	NL	V	I	N	L	H	A	Q	A	P	A	G	S									
S_entrpsychrophilus_strain_YLB-08_FM038_RS23530	140	MCVDS	CIHRALDFGPIEELR	AKYG...	DTAEIAP	LP	SAS	ITKP	NL	I	L	R	V	H	P	D	G	O	P	V	G	S								
S_sp._YLB_09_FS418_RS01250	159	VCVES	CPLRALDFDFTMDNLR	EKY	GDG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	R	P	S	G	S								
S_sp._YLB_09_FS418_RS01515	146	FCVQS	CSQRALDCGTVDDEL	QAKY	GGAPGV	GHIAP	LP	DAG	ITQP	NLI	I	R	G	A	K	C	S	R	P	T	G	D								
S_sp._YLB_09_FS418_RS02870	159	VCVES	CPLRALDFDFTMDNLR	EKY	GDG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	R	P	S	G	S								
S_sp._YLB_09_FS418_RS03135	146	FCVQS	CSQRALDCGTVDDEL	QAKY	GGAPGV	GHIAP	LP	DAG	ITQP	NLI	I	R	G	A	K	C	S	R	P	T	G	D								
S_sp._YLB_09_FS418_RS25025	142	MCVAS	CIHRALDFGPIEELR	QKYG...	ATAETAP	LP	PAS	VTKP	NL	V	I	N	L	H	A	Q	A	P	A	G	S									
S_sp._YLB_09_FS418_RS25060	140	MCVDS	CIHRALDFGPIEELR	AKYG...	DTAEIAP	LP	SAS	ITKP	NL	I	L	R	V	H	P	D	G	O	P	V	G	S								
S_sp._WPAGA9_IGB07_RS19230	160	VCVES	CPLRALDFDFTMDNLR	EKY	GSG..	DGHIAP	LP	NPS	ITTP	NLI	I	K	A	N	R	N	G	O	P	A	G	G								
S_sp._ARC9_LZ_GUY17_RS19095	159	ICVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHFAP	LP	SES	ITSP	NL	I	V	K	S	K	K	A	Q	P	V	G	A								
S_psychromarinicola_strain_M2_EGC80_RS00655	144	SCVES	CPMRAIDFGPMDEL	KAKY	PGA..	ISPAVAP	LP	QSS	VTTT	NLI	I	T	P	N	R	H	S	R	P	S	G	A								
S_psychromarinicola_strain_M2_EGC80_RS06750	159	ICVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHFAP	LP	SES	ITSP	NL	I	V	K	S	R	K	A	Q	P	V	G	S								
S_psychromarinicola_strain_M2_EGC80_RS11435	144	RCVAG	CQORALDFGVMDEL	KAKY	PNA..	TRGDIAP	LP	DP	SITTP	SLI	I	T	R	S	R	V	G	R	G	T	G	S								
S_sp._Actino-trap-3_CXF80_RS10110	144	SCVES	CPMRAIDFGPMDEL	KAKY	PGA..	ISPAVAP	LP	QSS	VTTT	NLI	I	T	P	N	R	H	S	R	P	S	G	A								
S_sp._Actino-trap-3_CXF80_RS15640	159	ICVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHFAP	LP	SES	ITSP	NL	I	V	K	S	R	K	A	Q	P	V	G	S								
S_livingstonensis_strain_LMG_19866_EGC82_RS20510	159	ICVES	CPLRALDFDFTMDNLR	AKY	GNG..	DGHFAP	LP	SES	ITSP	NL	I	V	K	S	K	K	A	Q	P	V	G	A								
Ferrimonas_lipolytica_strain_S7_HER31_RS14685	144	TCIES	CPLRAMEFGPIDEL	R	AKYGE...	AADINP	LP	SSS	ITTNP	NL	I	V	K	V	N	S	R	N...	.	.	.	.								
Ferrimonas_lipolytica_strain_S7_HER31_RS15970	172	HCVES	CPLRAIDFGTIDEL	R	ALYGS...	NADIQG	LP	SSS	ITDP	NL	I	K	V	N	P	V	S...	.	.	.	.	.								
Ferrimonas_lipolytica_strain_S7_HER31_RS04975	144	YCVAS	CTORALDFGTVDDEM	ISKYP	PNA..	ARADTAP	LP	S	VITTP	NL	F	I	S	A	N	P	N	A	K	A	S	G	S							
S_sp._ISTPL2_CCLCJOKE_1_HUB64_RS13990	159	ICVDS	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SAS	ITSP	NLI	I	K	A	N	R	N	G	O	P	I	G	.								
S_sp._8A_M2897_RS06505	159	ICVDS	CPLRALDFDFTMDNLR	AKY	GEG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	R	N	G	O	P	V	G	.								
S_woodyi_ATCC_51908_Swoo_0234	159	VCVES	CPLRALDFDFTMDNLR	AKY	GDG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	R	P	A	G	S								
Ferrimonas_balerica_DSM_9799_Fbal_2475	146	ICVAA	CPMRALDFGPMDEL	KQRY	PHA..	SIAAVAP	LP	DP	GITSP	NLI	I	G	A	N	A	N	A	Q	P	S	G	S								
Ferrimonas_balerica_DSM_9799_Fbal_3622	144	ICVES	CPLRALDFGPIDEL	R	AKYGS...	NADINP	LP	SSS	ITAP	NL	C	I	K	Q	N	.	R	N...	.	.	.	.								
S_frigidimarina_NCIMB_400_Sfri_3127	144	SCVES	CPMRAIDFGPMDEL	KAKY	PGA..	ISPAVAP	LP	QSS	ITTP	NLI	I	T	P	N	R	H	S	R	P	S	G	D								
S_frigidimarina_NCIMB_400_Sfri_3683	158	ICVGS	CPLRALDFDFTMDNLR	AKY	GNG..	DGHIAP	LP	PQS	ITSP	NLI	I	K	A	N	K	N	G...	.	.	.	.	.								
S_sediminis_HAW-EB3_Ssed_0230	159	VCVES	CPLRALDFDFTMDNLR	AKY	GDG..	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	R	P	A	G	S								
S_sediminis_HAW-EB3_Ssed_0349	144	SCVES	CPMRAIDFGPMDEL	KAKY	PGA..	ISPDVAP	LP	ESS	VTTT	NLI	I	T	P	N	R	H	T	R	P	S	G	A								
S_sediminis_HAW-EB3_Ssed_0358	140	MCVDS	CIHRALDFGPIDEL	R	AKYG...	DTAEIAP	LP	SAS	ITKP	NL	I	L	R	V	H	P	D	G	O	P	V	G	S							
S_sediminis_HAW-EB3_Ssed_1308	144	LCVEG	CQORALDFGLIEDL	KAKY	PGS...	SIANVAP	LP	QAS	ITSP	NLI	I	S	T	N	R	L	S	R	P	S	G	S								
S_sediminis_HAW-EB3_Ssed_1405	144	TCVDS	CPLRALEFGGPIDEL	R	NKHGD...	NADIQP	LP	SSD	ITSP	NLI	I	K	V	N	.	R	N...	.	.	.	.	.								
S_sediminis_HAW-EB3_Ssed_2922	144	TCVES	CPMRAIDFGTMDAL	KEKY	PDA..	VKPNFAP	LP	SSS	ITSP	NLI	M	K	P	N	R	H	A	R	A	S	G	S								
S_sp._KX20019_JK628_RS15595	159	VCVES	CPMRALDFDFTMDNLR	E	LTDKYGDG...	DGHIAP	LP	SPS	ITSP	NLI	I	K	A	N	V	N	G	S	P	A	G	S								
S_sp._KX20019_JK628_RS20555	144	SCVES	CPMRAIDFGPMDEL	KAKY	PAA..	INPDVAP	LP	QSS	VTTT	NLI	I	T	P	N	R	H	S	R	P	S	G	A								
Ferrimonas_sp._SCSIO_43195_J8Z22_RS00575	146	LCVQA	CSQRALDFGRVSDL	QAKY	GGLV	GASHCAP	LP	SP	SQTKP	NLI	I	R	L	S	P	N	H	Q	P	V	G	S								
Ferrimonas_sp._SCSIO_43195_J8Z22_RS11610	144	VCVES	CPMRALDFGTMDL	R	ARYPDA..	VQPDIA	LP	GS	GITHP	NLI	I	K	A	N	R	H	A	R	P	S	G	S								
Pseudomonas_sp._SCT_BHD08_RS22420(idrB)	130	QILGP	CPLHLTTTFDLTR	H	GMVASGHA...	TES	LP	Q	I	V	L	E	V	Q	G	D	D	I	Y	A	I	G	V	L	G	L	V	Y	G	F
Denitromonas_sp._IR12_IRJ34_RS03785(idrB)	125	QALGP	CPLHLTTTFDLTR	H	GMVISGHA...	TES	LP	Q	I	V	L	E	V	R	G	D	D	I	Y	A	V	G	V	Q	G	L	I	Y	G	Y

S_oneidensis_MR-1_dmsB	214	GSGQLLNPAEV
S_oneidensis_MR-1_SO_4357	196	.RGEIINITEV
S_sp._LZH-2_JM642_14185	214	GSGQLLNPAEV
S_xiamenensis_NUITM-VS1_NUITMVS1_29530	214	GSGQLLNPAEV
S_putrefaciens_strain_FDAARGOS_681_FOB89_20610	214	GSGQLLNPAEV
S_sp._MR-4_Shewmr4_3678	209	SGGQVLNWSEI
S_fidelis_ATCC-BAA-318_L884_L884_RS0114165	212	G.GDILNPTEV
S_piezotolerans_WP3_SWP_RS15445	215	GEGSILNPSEV
S_schlegeliana_strain_JCM_JMA39_11561_RS09485	212	G.GDILNPTEV
S_marisflavi_strain_EP1_CFF01_RS01170	210	RQGEILNFAEV
S_japonica_strain_KCTC_22435_SJ2017_RS00810	216	GAGNILNPKEV
S_sp._SUN_WT4_FJQ87_RS02765	216	NMGRIILNLSEV
S_sp._MBTL60-112-B2_K5Q73_RS09515	212	G.GDILNPTEV
S_sp._MBTL60_112_B1_K5Q83_RS07015	212	G.GDILNPTEV
S_entrpsychrophilus_strain_YLB-08_FM038_RS01265	215	GEGQILNLSEV
S_entrpsychrophilus_strain_YLB-08_FM038_RS01530	204	TNGSVLNPNEV
S_entrpsychrophilus_strain_YLB-08_FM038_RS23495	197	TAGTVINPNEC
S_entrpsychrophilus_strain_YLB-08_FM038_RS23530	195	GAGSVVNPNEV
S_sp._YLB_09_FS418_RS01250	215	GEGQILNLSEV
S_sp._YLB_09_FS418_RS01515	204	TNGSVLNPNEV
S_sp._YLB_09_FS418_RS02870	215	GEGQILNLSEV
S_sp._YLB_09_FS418_RS03135	204	TNGSVLNPNEV
S_sp._YLB_09_FS418_RS25025	197	TAGTVINPNEC
S_sp._YLB_09_FS418_RS25060	195	GAGSVVNPNEV
S_sp._WPAGA9_IGB07_RS19230	216	GAGNILNPKEV
S_sp._ARC9_LZ_GUY17_RS19095	215	STGRILNVREV
S_psychromarinicola_strain_M2_EGC80_RS00655	201	TDGEVLNYAEV
S_psychromarinicola_strain_M2_EGC80_RS06750	215	SMGRILNVREV
S_psychromarinicola_strain_M2_EGC80_RS11435	201	TDGNIANITEV
S_sp._Actino-trap-3_CXF80_RS10110	201	TDGEVLNYAEV
S_sp._Actino-trap-3_CXF80_RS15640	215	SMGRILNVREV
S_livingstonensis_strain_LMG_19866_EGC82_RS20510	215	STGRILNVREV
Ferrimonas_lipolytica_strain_S7_HER31_RS14685	196	.NAQHLNAFEV
Ferrimonas_lipolytica_strain_S7_HER31_RS15970	224	GTASHLNPFVEV
Ferrimonas_lipolytica_strain_S7_HER31_RS04975	201	AEGYIINLKEV
S_sp._ISTPL2_CCLCJOKE_1_HUB64_RS13990	214	GSGQVLNHAEV
S_sp._8A_M2897_RS06505	214	GSGQLLNPAEV
S_woodyi_ATCC_51908_Swoo_0234	215	GEGQILNPFSEV
Ferrimonas_balerica_DSM_9799_Fbal_2475	203	TLGRVTNEREV
Ferrimonas_balerica_DSM_9799_Fbal_3622	195	AGGEVLNWFEV
S_frigidimarina_NCIMB_400_Sfri_3127	201	TDGEVLNYAEV
S_frigidimarina_NCIMB_400_Sfri_3683	210	RQGEVLNYSEV
S_sediminis_HAW-EB3_Ssed_0230	215	GEGQILNLSEV
S_sediminis_HAW-EB3_Ssed_0349	201	TDGEVLNYSEV
S_sediminis_HAW-EB3_Ssed_0358	195	GAGSVVNPNEV
S_sediminis_HAW-EB3_Ssed_1308	201	SEGKIENLTEV
S_sediminis_HAW-EB3_Ssed_1405	195	PGGEILNEFEV
S_sediminis_HAW-EB3_Ssed_2922	201	IDGVVLNHSEV
S_sp._KX20019_JK628_RS15595	215	GEGRIILNPSEV
S_sp._KX20019_JK628_RS20555	201	TDGDVLNYSEV
Ferrimonas_sp._SCSIO_43195_J8Z22_RS00575	204	TAGKVINIREL
Ferrimonas_sp._SCSIO_43195_J8Z22_RS11610	201	LDGQVLNWAEV
Pseudomonas_sp._SCT_BHD08_RS22420(idrB)	184	DSMNDVQPA..
Denitromonas_sp._IR12_IRJ34_RS03785(idrB)	179	SSNRAGR....