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```
# Program: water
# Rundate: Sat 8 Apr 2023 10:29:14
# Commandline: water
#   -auto
#   -stdout
#   -asequence emboss_water-I20230408-102848-0043-26457258-p1m.asequence
#   -bsequence emboss_water-I20230408-102848-0043-26457258-p1m.bsequence
#   -datafile EBL0SUM62
#   -gapopen 10.0
#   -gapextend 0.5
#   -aformat3 pair
#   -sprotein1
#   -sprotein2
# Align_format: pair
# Report_file: stdout
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#
# Aligned_sequences: 2
# 1: YP_009724390.1
# 2: YP_009825051.1
# Matrix: EBL0SUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1277
# Identity:      974/1277 (76.3%)
# Similarity:   1111/1277 (87.0%)
# Gaps:         26/1277 ( 2.0%)
# Score: 5227.0
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YP_009724390.	1	MFVFLVLLPLVS-SQCVNLTTRTQL-PPAYT--NSFTRGVYYPDKVFRSS	46
YP_009825051.	1	MFIFLLFLTLTSGSDLDRCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSD	50
YP_009724390.	47	VLHSTQDLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTE	96
YP_009825051.	51	TLYLTQDLFLPFFSNVTGFHTI----NHT--FGNPVIPFKDGIYFAATE	93
YP_009724390.	97	KSNIIRGWIFGTTLDSTQSLIVNATNVVIKVCEFCNDPFLGVYYH	146
YP_009825051.	94	KSNVVRGWVFGSTMNKSQSVIIINNSTNVVIRACNFELCDNPFFAV---	140
YP_009724390.	147	KNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNLREFVFKN	196
YP_009825051.	141	-SKPMGTQTHMIFDNAFNCTFEYISDAFSLDVSEKSGNFKHLREFVFKN	189
YP_009724390.	197	IDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQTLALHR	246
YP_009825051.	190	KDGLYVYKGYQPIDVVRDLP SGFNTLKP IFKLPLGINITNFRAIL----	235
YP_009724390.	247	SYLTPGDSSSGWTAGAAAYVGYLQPRTFLLKYNENGTITDAVDCALDPL	296
YP_009825051.	236	TAFSPAQDI--WGTSAAAYFVGYLKPTTFMLKYDENGITITDAVDCSQNPL	283
YP_009724390.	297	SETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATR	346
YP_009825051.	284	AELKCSVKSFEIDKGIYQTSNFRVVP SGDVVRFPNITNLCPFGEVFNATK	333
YP_009724390.	347	FASVYAWNKRKISNCVADYSVLVNSASFSTFKCYGVSPTKLNDLCFTNVY	396
YP_009825051.	334	FPSVYAWERKKISNCVADYSVLVNSTFFSTFKCYGVSATKLNDLCFSNVY	383

YP_009724390.	397	ADSFVIRGDEVQRQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVG	446
YP_009825051.	384	ADSFVVKGDDVRQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATST	433
YP_009724390.	447	GNYNLYRLFRKSNLKPFERDISTEIYQAGSTPCNGVEGFNCYFPLQSYG	496
YP_009825051.	434	GNYNKYRYLRHGKLRPFERDISNVFPSPDGKPCCT-PPALNCYWPLNDYG	482
YP_009724390.	497	FQPTNGVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGL	546
YP_009825051.	483	FYTTTGIGYQPYRVVLSFELLNAPATVCGPKLSTDLIKNQCVNFNFNGL	532
YP_009724390.	547	TGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVS	596
YP_009825051.	533	TGTGVLTPSSKRFPFQQFGRDVSDFTDSVRDPKTSEILDISPCAFGGVS	582
YP_009724390.	597	VITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTR	646
YP_009825051.	583	VITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYSTGNNVFQTO	632
YP_009724390.	647	AGCLIGAHEVNNSECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYT	696
YP_009825051.	633	AGCLIGAHEVDTSECDIPIGAGICASYHTVS---LLRSTSQKSIVAYT	678
YP_009724390.	697	MSLGAENSVAYSNNISAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDS	746
YP_009825051.	679	MSLGADSSIAYSNNITAIPTNFSISITTEVMPVSMAKTSVDCNMYICGDS	728
YP_009724390.	747	TECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQEVEFAQVKQIYKTPPIKD	796
YP_009825051.	729	TECANLLLQYGSFCTQLNRALSGIAAEQDRNTREVFAQVKQMYKTPTLKY	778
YP_009724390.	797	FGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDCLGDIAA	846
YP_009825051.	779	FGGFNFSQILPDPLKPTKRSFIEDLLFNKVTLADAGFMKQYGECLGDINA	828
YP_009724390.	847	RDLICAQKFNGLTVLPPLLTDEMAIQYTSALLAGTITSGWTFGAGAALQI	896
YP_009825051.	829	RDLICAQKFNGLTVLPPLLTDDMIAAYTAALVSGTATAGWTFGAGAALQI	878
YP_009724390.	897	PFAMQMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDSLSTASALG	946
YP_009825051.	879	PFAMQMAYRFNGIGVTQNVLYENQKQIANQFNKAISQIQESLTTTSTALG	928
YP_009724390.	947	KLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRL	996
YP_009825051.	929	KLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRL	978
YP_009724390.	997	ITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKG	1046
YP_009825051.	979	ITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKG	1028
YP_009724390.	1047	YHLMSPQSAAPHGVVFLHVTYVPAQEKNFTTAPAICHGKAHFPREGVVF	1096
YP_009825051.	1029	YHLMSPQAAPHGVVFLHVTYVPSQERNFTTAPAICHEGKAYFPREGVVF	1078
YP_009724390.	1097	SNGTHWFVTQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELD	1146
YP_009825051.	1079	FNGTSWFITQRNFFSPQIITTDNTFVSGNCDVVIGIINNTVYDPLQPELD	1128
YP_009724390.	1147	SFKEELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNES	1196
YP_009825051.	1129	SFKEELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNES	1178
YP_009724390.	1197	LIDLQELGKYEYQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKG	1246
YP_009825051.	1179	LIDLQELGKYEYQYIKWPWYVWLGFIAGLIAIVMVTILLCCMTSCCSCLKG	1228
YP_009724390.	1247	CCSCGSCCKFDEDDSEPVLKGVKLHYT	1273

YP_009825051. 1229 .|||
ACSCGSCCKFDEDDSEPV¹LKGVKLHYT 1255

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