

Clostridium_botulinum_B1_str__Okra
Clostridium_perfringens_str__13
Clostridium_acetobutylicum_ATCC_824
Clostridium_beijerinckii_NCIMB_8052
Clostridium_novyi_NT
TBLASTN_CONTIG_Clostridium_perfringens_CPE_str__F4969
TBLASTN_CONTIG_Acetobacterium_woodii_DSM_1030

1020304050607080

1MARVKKRAMNARKRHKKVKLKLAKGYGGGKSKLFKTANESVIRALRNAYVGRKLKKRDYRKLWLIARINAATRMMNGLSYSKFMNGIKN
1MARVKKRAVNARKNHKKVKLKLAKGYGGGKSKLFKTANESVIRALRNAYVGRRLKKRDYRRLWLIARINAATRMMNGLSYSRFMNGMKL
1MARVKKRAVNARKNHKKVKLKLAKGYGGGKSKLFKTANESVIRALRNAYVGRRLRKRDFRKLWLIARINAATRINGLSYSKFINGIKL
1MARVKKRAKNSRKNHKKVKLKLAKGYGGGKSKLYKTANESVIRALRNSYVGRKNKKRDYRSLWLIARINAATRINNLSYSKFMNGIKL
1MARVKKRAMHARKKHKKTKLKLAKGYGGRSRRTFKNANETVLRAMNFAYVGRKLKKRDFRRLWLIARINAAARMNGLSYSKFMNGIKL
1...VKRAVNARKNHKKVKLKLAKGYGGGKSKLFKTANESVIRALRNAYVGRRLKKRDYRRLWLIARINAATRMMNGLSYSRFMNGMKL
1IMRIKKGVNAKKKHKKVKLKLAKGFYGAASKLYRSANEAVMRAQRSSYVGRKEKKRNFRRLLWITRINAGARMYDLSYSKFMFGLKQ

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90100110

86AGIDINRKMLSEIAINDPKAFAEIVDVAKKQLNA
86AGVDINRKMLSEIAINDPKAFADLVELAKKHLNA
86AGIDMNRKMLSEIAINDPKAFSELVEVAKKQINA
86AGIDINRKMLSEIAINDPKAFTELVEVAKKQLNA
86AGINMNRKMLSEIAINDEKAFADLVEVAKKQLNA
83AGVDINRKMLSEIAINDPKAFADLVELAKKHLNA
86AGVEIDRKILADLAMNDINAFKDLVEVSKKNLN.

ⓧ

non conserved

✖

similar

ⓧ

≥ 50% conserved