

CLUSTAL W (1.81) multiple sequence alignment

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95-54.(J128)_AAC25911      -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
AFN1156_AAK56856          -----MEIQQTHRKINRPIISLALVGLMGTELGANTPNDPHSESRAFFMTVIIP
CHN3295b_AAF26501         -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
CHN5114a_AAF26509        -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
CHN1811a_AAF26508        -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
CHN5147c_AAF26502        -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
Tx30a_AAA86834           -----MEIQQTHRKINRPIISLALVGLMGTELGANTPNDPHSESRAFFTTVIIP
OK129_BAD51782           -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK210_BAD51798           -----MEIQQTHRKINRPLVCLALVGLVSI-----TP----QKSHAAFFTTVIIP
OK155_BAD51786           -----MEIQQTHRKINRPIISLALVGLIGTELGANTPNDPHSESRAFFTTVIIP
OK130_BAD51783           -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK204_BAD51796           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK179_BAD51790           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK187_BAD51794           -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QQSHAAFFTTVIIP
OK180_BAD51791           -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK181_BAD51792           -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK185_BAD51793           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK107_BAD51778           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK205_BAD51797           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK139_BAD51784           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK160_BAD51789           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK144_BAD51785           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
Shi470_ACD48370         -----MEIQQTHRKINRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP
V225                     -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
ch2_AAF86763             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK109_BAD51779           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F36_AAD04277             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK118_BAD51781           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F44_AAD04266             -----MEIQQTHHKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F55_AAD04270             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK194_BAD51795           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F70_AAD04286             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F56_AAD04271             -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F78_AAD04275             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QQSHAAFFTTVIIP
98-10_EEC22320          -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F43_AAD04280             MELQQERKMEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F71_AAC77451             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F47_AAD04268             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F17_BAD51771             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F61_AAD04281             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F68_AAD04283             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F18_BAD51772             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F26_BAD51773             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QQSHAAFFTTVIIP
OK158_BAD51787           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
CHN5038c_AAL83505        -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
CHN3554a_AAL83503        -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
CHN4611a_AAL83504        -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F73_AAD04289             -----MESQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F65_AAD04272             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F45_AAD04267             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F21_AAD04261             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
OK159_BAD51788           -----MEIQQTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
OK101_BAD51777           -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F72_AAD04288             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F16_BAD51770             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
CHN5060d_AAF26510       -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F15_BAD51769             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F33_AAD04276             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F38_AAD04279             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F42_AAD04265             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F13_BAD51768             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F64_AAD04282             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F69_AAD04285             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F35_AAD04264             -----MEIQQTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP

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F52_AAD04269 -----MELQOTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F32_BAD51774 -----MELQOTHRKINRPLVSLALVGLLVS-----TP----QKSHAAFFTTVIIP
F80_BAD51775 -----MEIQOTHRKMNRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP
F92_BAD51776 -----MEIQOTHRKMNRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP
185-44_CAA81528 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
AFN4847_AAK56859 -----MEIQOTHRKMNRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP
J99_AAD06400 -----MEIQOTHRKINRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP
AFN4124_AAK56857 -----MEIQOTHRKMNRPLVSLVLAGALVSA-----IP----QESHAFFTTVIIP
AFN4769_AAK56858 -----MEIQOTHRKMNRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP
AFNG114_AAK56860 -----MEIQOTHRKMNRPLVSLVLAGALVSA-----IP----QESHAFFTTVIIP
AAB30582 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
DSM.4867./CCUG.17874./NCTC.116 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
NCTC.11638_AAA18867 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
HPAG1_ABF84934 -----MEIQOTHRKMNRPLVSLVLAGALISA-----IP----QQSHAAFFTTVIIP
P12_ACJ08036 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F79_AAC77452 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
26695_AAD07935 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
ATCC.700392./.26695_P55981 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
ATCC.43526_AAB53868 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
NCTC.11637_AAD04290 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
60190.(ATCC.49503)_AAA17657 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
ATCC.49503./.60190_Q48245 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
F37_AAC77450 -----MEIQOTHRKINRPLVSLALVGLVSI-----TP----QQSHAAFFTTVIIP
G27_ACI27595 -----MEIQOTHRKMNRPLVSLVLAGALISA-----IP----QESHAFFTTVIIP

** *.*:***:~.~.~.~.~ * * * * *

95-54.(J128)_AAC25911 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
AFN1156_AAK56856 AIVGGIATGTAVGTVSGLLWGLKQAEQANKTPDKPKDVWRIQAGRGRGFNNFPNKQYDL
CHN3295b_AAF26501 AIVGGIASGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQA-ES--FNEFPNKEYDL
CHN5114a_AAF26509 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWCIQAGRG--FNEFPNKEYDL
CHN1811a_AAF26508 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWCIQAGRG--FNEFPNKEYDL
CHN5147c_AAF26502 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWCIQAGRG--FNEFPNKEYDL
Tx30a_AAA86834 AIVGGIATGAAVGTVSGLLSWGLKQAEQANKAPDKPKDVWRIQAGRG--FDNFPNKEYDL
OK129_BAD51782 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
OK210_BAD51798 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
OK155_BAD51786 AIVGGIATGTAVGTVSGLLSWGLKQAEQANKTPDKPKDVWRIQAGRG--FNNFPNKQYDL
OK130_BAD51783 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
OK204_BAD51796 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
OK179_BAD51790 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNDNFPNKQYDL
OK187_BAD51794 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKQYDL
OK180_BAD51791 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
OK181_BAD51792 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
OK185_BAD51793 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWHIQAGRG--FNNFPNKEYDL
OK107_BAD51778 AIVGGIATGAAVGTVSGLLSWGLKQAEQANKTPDKPKDVWRIQAGRG--FNNFPNKQYDL
OK205_BAD51797 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
OK139_BAD51784 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
OK160_BAD51789 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
OK144_BAD51785 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
Shi470_ACD48370 AIVGGIATGTAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
V225 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
ch2_AAF86763 AIVGGIASGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
OK109_BAD51779 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F36_AAD04277 AIVGGIASGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
OK118_BAD51781 AIVGGIATGAAVGTVSGLLSWGLKQAEANKTPDKPKDVWRIQAGRG--FNNFPNKEYDL
F44_AAD04266 AIVGGIASGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F55_AAD04270 AIVGGIATGAAVGTVSGFLAGGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
OK194_BAD51795 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F70_AAD04286 AIVGGIASGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F56_AAD04271 ASVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F78_AAD04275 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
98-10_EEC22320 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F43_AAD04280 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F71_AAC77451 AIVGGIASGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F47_AAD04268 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F17_BAD51771 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F61_AAD04281 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL
F68_AAD04283 AIVGGIATGAAVGTVSGLLGWGLKQAEANKTPDKPKDVWRIQAGRG--FNEFPNKEYDL

OK179_BAD51790 LVIDEIYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK187_BAD51794 LVIDELYHAPWNYFDARNITDVEINKKILFGAPGNIAGKTGLM-FNNLTLNSNASMDY GK
OK180_BAD51791 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK181_BAD51792 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK185_BAD51793 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK107_BAD51778 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK205_BAD51797 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK139_BAD51784 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK160_BAD51789 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
OK144_BAD51785 LVIDELYHAPWNYFDARNVTDVEINKKILFGAPGYIAGKTGLM-FNNLTLNSNASMDY GK
Shi470_ACD48370 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGHNAMVDYSQ
V225 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGHNAMVDYSQ
ch2_AAF86763 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGHNAMVDYSQ
OK109_BAD51779 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F36_AAD04277 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
OK118_BAD51781 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F44_AAD04266 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F55_AAD04270 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
OK194_BAD51795 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F70_AAD04286 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F56_AAD04271 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F78_AAD04275 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
98-10_EEC22320 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F43_AAD04280 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F71_AAC77451 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLAPNAVMDYSQ
F47_AAD04268 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F17_BAD51771 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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F68_AAD04283 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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CHN5038c_AAL83505 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
CHN3554a_AAL83503 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
CHN4611a_AAL83504 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F73_AAD04289 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F65_AAD04272 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F45_AAD04267 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F21_AAD04261 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
OK159_BAD51788 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
OK101_BAD51777 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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F16_BAD51770 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
CHN5060d_AAF26510 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F15_BAD51769 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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F38_AAD04279 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F42_AAD04265 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F13_BAD51768 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F64_AAD04282 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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F35_AAD04264 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F52_AAD04269 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F32_BAD51774 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F80_BAD51775 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
F92_BAD51776 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
185-44_CAA81528 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
AFN4847_AAK56859 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
J99_AAD06400 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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AFN4769_AAK56858 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
AFNG114_AAK56860 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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DSM.4867./CCUG.17874./NCTC.116 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
NCTC.11638_AAA18867 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ
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P12_ACJ08036 LVINDFYYPWNYFDARNIKNVEITNKLAFGPQGS PWGTAKLM-FNNLTLGPNAMVDYSQ

HPAG1_ABF84934
P12_ACJ08036
F79_AAC77452
26695_AAD07935
ATCC.700392./.26695_P55981
ATCC.43526_AAB53868
NCTC.11637_AAD04290
60190.(ATCC.49503)_AAA17657
ATCC.49503./.60190_Q48245
F37_AAC77450
G27_ACI27595

R--NTDDIKACGMAIGNQSMVNNPDNYKYLIGKAWKNIGISKTANGSKI SVYYLGNSTPT
R--NTDDIKACGTAIGNQSMVNNPDNYKYLIGKAWKNIGISKTANGSKI SVHYLGNSTPT
R--NTDDIKACGMAIGNQSMVNNPDNYKYLIGKAWRNIGISKTANGSKI SVYYLGNSTPT
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