

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

MKQSLQLRLSQHLALTPQLQQSIRLLQLSTIELQQEVEQALTENPLLERENEWLDTSARIGADGSVNALQSSSATPLPTE
MKQSLQLRLSQHLALTPQLQQSIRLLQLSTIELQQEVEQALTENPLLERENEWLDTSARIGADGSVNALQSSSATPLPTE
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

80
80

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

SPPPAANGADHADTA~~E~~ASYENGSDFSDYGTERSDWSLDDFARKPQSD~~E~~DDRAPMQLREAEP~~T~~QREFLMEQLAPLKLSPR
SPPPAANGADHADTA~~E~~ASYENGSDFSDYGTERSDWSLDDFARKPQSD~~E~~DDRAPMQLREAEP~~T~~QREFLMEQLAPLKLSPR
SPPPAANGADHADTA~~E~~ASYENGSDFSDYGTERSDWSLDDFARKPQSD~~E~~DDRAPMQLREAEP~~T~~QREFLMEQLAPLKLSPR
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

160
160

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

DKGLVIFLIESLDDEGYLTGSLDEILADLPAELEVELDELQAALRMLQSFDPAGIGARSAAECLTLQLQLRDLSPAKPLAL
DKGLVIFLIESLDDEGYLTGSLDEILADLPAELEVELDELQAALRMLQSFDPAGIGARSAAECLTLQLQLRDLSPAKPLAL
DKGLVIFLIESLDDEGYLTGSLDEILADLPAELEVELDELQAALRMLQSFDPAGIGARSAAECLTLQLQLRDLSPAKPLAL
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

240
240

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

TIVNQHELLAARDYTRLKKALSVDDELKAAHELIRSLAPFPGHAFGRAEADFWP~~D~~WRKTAAGWMAQLNPDVMPRL
TIVNQHELLAARDYTRLKKALSVDDELKAAHELIRSLAPFPGHAFGRAEADFWP~~D~~WRKTAAGWMAQLNPDVMPRL
TIVNQHELLAARDYTRLKKALSVDDELKAAHELIRSLAPFPGHAFGRAEADFWP~~D~~WRKTAAGWMAQLNPDVMPRL
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

320
320

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

RINDMYAQILRSSRGESGAANLQKQLQEARWLIKNIQQRFD~~T~~ILRVSQAI~~V~~ERQKSFFTHGEI~~A~~MRPLV~~L~~REI~~A~~DTLGLH
RINDMYAQILRSSRGESGAANLQKQLQEARWLIKNIQQRFD~~T~~ILRVSQAI~~V~~ERQKSFFTHGEI~~A~~MRPLV~~L~~REI~~A~~DTLGLH
RINDMYAQILRSSRGESGAANLQKQLQEARWLIKNIQQRFD~~T~~ILRVSQAI~~V~~ERQKSFFTHGEI~~A~~MRPLV~~L~~REI~~A~~DTLGLH
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

400
400

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

ESTISRVTTNKYMATPMGTFELKYFFGSHVSTETGGAASSTAIRALIKQLVGAEDPKNPLSDSRI~~A~~E~~L~~LGEQGFVARRT
ESTISRVTTNKYMATPMGTFELKYFFGSHVSTETGGAASSTAIRALIKQLVGAEDPKNPLSDSRI~~A~~E~~L~~LGEQGFVARRT
ESTISRVTTNKYMATPMGTFELKYFFGSHVSTETGGAASSTAIRALIKQLVGAEDPKNPLSDSRI~~A~~E~~L~~LGEQGFVARRT
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

480
480

logo

NTDB id 108020 AACJ17 RS04670 WP 020831172.1
NTDB id 1425 RS RS02020 WP 011000369.1
consensus

VAKYREALKIPAVNLRKSL
VAKYREALKIPAVNLRKSL
VAKYREALKIPAVNLRKSL
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

499
499

 non conserved
 similar
 $\geq 50\%$ conserved