```
270|68072469|berghei|XP_678148      ------MKIYNINQDSINNEYNIRTPISDGTTIIGIIYEHGVMLACDTRT
275|83317531|yoelii|XP_731201.      MEIEP-MKIYNINQDSINNEYNIRTPISDGTTIIGIIYEHGVMLACDTRT
268|70941290|chabaudi|XP_74095      --------MYKINQDSINNEYDIRTPISDGTTIIGIIYEHGVMLACDTRT
282|221054918|knowlesi|XP_0022      MEVES-MKAELMGAPLREDPYDIKTPISDGTTIIGIIYEHGVMLACDTRT
282|156081746|vivax|XP_0016083      MQVER-MEADFMGAPLREDPYNIKTPISDGTTIIGIIYEHGVMLACDTRT
282aa|beta-1|pf|Q8I0U7|             MDVVNESQIKCHEEKSWDDEYDIKTPISDGTTIIGIIYDNGVMLACDSRT
205|HV|P38624|                      -----------MNGIQVDINRLKKGEVSLGTSIMAVTFKDGVILGADSRT
                                                :     :  :* **:*:.: :..**:*..*:**

270|68072469|berghei|XP_678148      SSGTFVSNKCSRKINRINENIYVCRSGASAHSQKVIEVIKHYCASMKSEN
275|83317531|yoelii|XP_731201.      SSGTFVSNKCSRKINRINENIYVCRSGASAHSQKVIEVIKHYCASMKSEN
268|70941290|chabaudi|XP_74095      SSGTFVSNKCSRKINRINENIYVCRSGASAHSQKVIEVIKHYCASMKSEN
282|221054918|knowlesi|XP_0022      SSGTLISNKCSRKINRINENIYACRSGASAHSQKVIELIKYFCLSMKCEN
282|156081746|vivax|XP_0016083      SSGTLVSNKCSRKINRINENIYACRSGASAHSQKVIELIKHFCLSMKCEN
282aa|beta-1|pf|Q8I0U7|             SSGTFISNKCSRKINRINENLYVCRSGASAHSQKIIEIIKHYCVSMKNEN
205|HV|P38624|                      TTGAYIANRVTDKLTRVHDKIWCCRSGSAADTQAIADIVQYHLELYTSQY
                                    ::*: ::*: : *:.*:::::: ****::*.:* : :::::.    . :

270|68072469|berghei|XP_678148      RKKGRFHENEVITDDINDEE-IDIDQINN---INNN---NVIAKNKYYYN
275|83317531|yoelii|XP_731201.      RKKGRFHENEVITDDINDEE-IDINQINN---INNN---NVIAKNKYYYD
268|70941290|chabaudi|XP_74095      RKKGRFHEDEIITDDINDEE-IDVNQINN---INNN---SVIAQNKYYYD
282|221054918|knowlesi|XP_0022      RKKGRFHEDEVITDDLANEEDIDINAINNPFGLAQNGDPNYVTKHKYFYE
282|156081746|vivax|XP_0016083      RKKGRFHEDEVITDDLANEEDIDLSAINNPFGLAQNMDPNYVTKHKYFYE
282aa|beta-1|pf|Q8I0U7|             R**KKGRFHEGETIYDETTYDEEIDIDSINY-LDYNNNNDNNLVTKNKYFYE**
205|HV|P38624|                      G----------------------------------------------------

270|68072469|berghei|XP_678148      DKFMDYNPLVENVAYITKKLIYANNNFLSCGLIFGGYDKIKKQQLYSVNL
275|83317531|yoelii|XP_731201.      DKFMDYNPLVENVAYITKKLVYANNNFLSCGLIFGGYDKIKKQQLYSVNL
268|70941290|chabaudi|XP_74095      DKFMDYNPLVENVAYITKKLIYANNNFLSCGLIFGGYDKVKKQQLYSVNL
282|221054918|knowlesi|XP_0022      DKFMDFNPPVENVAHMTKKLLYANNNFLSCGLILGGYDKDKKQQLYSINL
282|156081746|vivax|XP_0016083      DKFMDFNPLVENVAHMTKKLLYANNHFLSCGLILGGYDKEKKQQLYSVNL
282aa|beta-1|pf|Q8I0U7|             **DKFNDY**NPLVENVAHITKKIIYTNNNFLSCALIFGGYDKIKKQQLYAVNL
205|HV|P38624|                      ------TPSTETAASVFKELCYENKDNLTAGIIVAGYDDKNKGEVYTIPL
                                          .* .*..* : *:: * *:. *:..:*..***. :* ::*:: *

270|68072469|berghei|XP_678148      NGSIIQKYDYAVSGSGSIYIQSYLQDKYKKNMTKKECFDLILNCVKYAIY
275|83317531|yoelii|XP_731201.      NGSIIQKYDYAVSGSGSIYIQSYLQDKYKKNMTKKECFDLILNCVKYAIY
268|70941290|chabaudi|XP_74095      NGSIIQKHDYAVSGSGSIYIQSYLQDKYKQNMTKKECFDLILNCVKYAIY
282|221054918|knowlesi|XP_0022      NGSIVQRFDYAVSGSGSVYIQSYLQDKYKKNMSKKECFELILGCVKYAMY
282|156081746|vivax|XP_0016083      NGSIVQRFDYAVSGSGSVYIQSYLQDKYKKNMSKKECFELILGCVKYAMY
282aa|beta-1|pf|Q8I0U7|             NGSIIEKHDFAVSGSGSIYIQSYLQDKYKKFMTKKECFNLILNCVKYAMH
205|HV|P38624|                      GG-SVHKLPYAIAGSGSTFIYGYCDKNFRENMSKEETVDFIKHSLSQAIK
                                    .*  :.:  :*::**** :* .* :.::::: *:*:* .::*  .:. *:

270|68072469|berghei|XP_678148      NDNSSGGIVRILNITKNFVEEYTITNTQIHFDY
275|83317531|yoelii|XP_731201.      NDNSSGGIVRILNITKNYVEEYTVTNTQIHFDY
268|70941290|chabaudi|XP_74095      NDNSSGGIIRILNITKLFVEEYTVTNTQIHFDY
282|221054918|knowlesi|XP_0022      NDNSSGGIVRIVNITKLFVEEFTVTNTQLHFDY
282|156081746|vivax|XP_0016083      NDNSSGGIVRIVNMTKLFVEEFTVTNTQLHFDY
282aa|beta-1|pf|Q8I0U7|             NDNSSGGLIRIVNITKSFVEEFTVVNTQMNFQY
205|HV|P38624|                      WDGSSGGVIRMVVLTAAGVERLIFYPDEYEQL-
                                     *.****::*:: :*   **.  .   : .
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