


```
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
NTDB id 1127256 FGL00 RS08555 WP 138098700.1
NTDB id 384 SMU RS02325 WP 002263039.1
consensus
```

IKNPSQAVTEETYQPQAPKKHRFKMRYLILLASLVLV	AASLIWILSRTPATIAIPDVAGQTVAEAKATLKKANFEIGEE	397
IKNPSQAVTEETYQPQAPKKHRFKMRYLILLASLVLV	AASLIWILSRTPATIAIPDVAGQTVAEAKATLKKANFEIGEE	397
IKNPSQAVTEETYQPQAPKKHRFKMRYLILLASLVLV	AASLIWILSRTPATIAIPDVAGQTVAEAKATLKKANFEIGEE	397
IKNPSQAVTEETYQPQAPKKHRFKMRYLILLASLVLV	AASLIWILSRTPATIAIPDVAGQTVAEAKATLKKANFEIGEE	397
TPAPSKQPRKKTTPAKKKKKNFSTLLKVFLGLVLF	GIIIFAYLVFTNPDNVVVGQELSTAQTKEGAGFKVGEV	397
RLEHTNQMDTLQKPQKKKRNGRFLGTLLKLIKLSIFIV	GVGALFTYVLVTKPTSVKVPNTGVSLKVKQELQDLGLKVGKV	398
KVDHKS KPKTKPQ.PKPKKKRHFLARFFKIFFILVAL	GIAVLTYLVLTLPSTVSVPDVS GDKLSTAKMIIRKSG LKVG DV	397
*****!*****!	*****!*****!	

```

NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 467 HSISS4 RS06915 WP 021143821.1
NTDB id 1127256 FGL00 RS08555 WP 138098700.1
NTDB id 384 SMU RS02325 WP 002263039.1
consensus

```

KTEASEKVEEGRIIRTPGAGTGRKEGTKINLVSSGQSFQISNYVGRKSSDVIAELKEKKVPDNLKIEEEESNESE
SLEDDEARAKVKIKNIPTSAKRKSAPYFLAISAKGLMEDIKIDYKSAVESLINTYFGSESRLRHYSDDSYA

KTEASEKVEEGRIIRTPGAGTGRKEGTKINLVSSGQSFQISNYVGRKSSDVIAELKEKKVPDNLKIEEEESNESE 476
KTEASEKVEEGRIIRTPGAGTGRKEGTKINLVSSGQSFQISNYVGRKSSDVIAELKEKKVPDNLKIEEEESNESE 476
KTEASEKVEEGRIIRTPGAGTGRKEGTKINLVSSGQSFQISNYVGRKSSDVIAELKEKKVPDNLKIEEEESNESE 476
KTEASEKVEEGRIIRTPGAGTGRKEGTKINLVSSGQSFQISNYVGRKSSDVIAELKEKKVPDNLKIEEEESNESE 476
KEVEDSDVDTKVKIKTDPTAGTRKEGSSIDVYVSSGSKGFALKDYCKNYKDATEDLTSNFVGVSSEDQIDIQHVEDDSAE 477
RQIESDTVAEGNVVRTDPPTGTAKRKCSAITVYLSIGNKGFEKENYKCIDYQEAMASLMETYGVPKSKI KIERIVTNEYT 478
QKIEDDNVVGAGKVVRTNPSSAGSKKREGSSVDIFVA.SAKGFKMEDYTCCQDYKDADLDNLTNNYGVSRDSLVLKEVSSDDYS 479
*****!***!*****!*!*****!*****!*****!*****!*****!*****!*****!*****!*****!

```

NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 467 HSIS54 RS06915 WP 021143821.1
NTDB id 1127256 FGL00 RS08555 WP 138098700.1
NTDB id 384 SMU RS02325 WP 002263039.1
consensus

```

AGTIVLKQSLPEGTTYDLSKA.TQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEE.ESS
E.NEITSLPFRKNDKRFNPKSDKAK.TFRVYPBKVTIMVBLKENTYQDAVRLNRLN.ESSR.EYDADSTYSKTYRBYRNI

AGTIVLKQSLPEGTTYDLSKA.TQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEE.....ESS 545
AGTIVLKQSLPEGTTYDLSKA.TQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEE.....ESS 545
AGTIVLKQSLPEGTTYDLSKA.TQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEE.....ESS 545
AGTIVLKQSLPEGTTYDLSKA.TQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEE.....ESS 545
EGEILSQSPGKNKSFNPKDSKAKIKFRVATPK.IVTMPDVTGLTVSTAVQTLNRKN.ISSSI.EYHDYNTGAK..LDKAKI 554
ENTVISQSPSAGDKFNPNK.KSKITLSVAVSD.TVIMPMVTEYTYADAVNTLTALGTEASRIKAYAPSSSSATGFVQVNS 556
GGTVIGQSPKPKGKTYHPSS.DKKITLKVV...KVTMPN.LKNSTYEBAVSTLTAMG.ISSSR.IKAYDASDYS...SEISS 547

*****!!***** **!*!!**********!*****!***** **

```
NTDB id 146 SP RS08570 WP 000614538.1
NTDB id 216 SPD RS08205 WP 000614552.1
NTDB id 182 SPR RS07820 WP 000614552.1
NTDB id 257 KZH43 RS07655 WP 220041236.1
NTDB id 467 HSIS54 RS06915 WP 021143821.1
NTDB id 1127256 FGL00 RS08555 WP 138098700.1
NTDB id 384 SMU RS02325 WP 002263039.1
consensus
```

ESEPGTIMKQSPGAGTTTVDVSKPTQIVLTVAKKVTSVAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSVEG	625
ESEPGTIMKQSPGAGTTTVDVSKPTQIVLTVAKKVTSVAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSVEG	625
ESEPGTIMKQSPGAGTTTVDVSKPTQIVLTVAKKVTSVAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSVEG	625
ESEPGTIMKQSPGAGTTTVDVSKPTQIVLTVAKKVTSVAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSVEG	625
PSSTEI.LYQDPQ...AGTSVDGTIVLYSVATASSSLQSSSSST...HS	607
PSKKAIVSGTTPYYGTTLSLSEKGEISLILYPEETHSSSSSTSEAS...S	612
PSSSSLVVGQSPYYGNTVLSLSSNDDITLYVSTSGGSHSGSSSES	597

logo

NTDB id 146 SP RS08570 WP 000614538.1	MVVEQSPRAGEKVDLNKTRVKISIIYKPKTTSATP.	659
NTDB id 216 SPD RS08205 WP 000614552.1	MVVEQSPRAGEKVDLNKTRVKISIIYKPKTTSATP.	659
NTDB id 182 SPR RS07820 WP 000614552.1	MVVEQSPRAGEKVDLNKTRVKISIIYKPKTTSATP.	659
NTDB id 257 KZH43 RS07655 WP 220041236.1	MVVEQSPRAGEKVDLNKTRVKISIIYKPKTTSATP.	659
NTDB id 467 HSISS4 RS06915 WP 021143821.1	TTSS.....TE.....TS TEATH TELQ...	624
NTDB id 1127256 FGL00 RS08555 WP 138098700.1	TETS.....SN.....TEISPSESAGQTTP.	631
NTDB id 384 SMU RS02325 WP 002263039.1	TTSS.....EA.....STDSSSAITTS SH	616
consensus	*****	

- non conserved
- similar
- ≥ 50% conserved