

logo

NTDB id 26780 HELPY RS00230 WP 001045895.1  
NTDB id 1218 CAA10657.1 2413..3543( )  
consensus

MNKLKGVLYFIGGFATITISLVYHQKPKAPLNNQPSLLNDDEVKYPLQDYTFTQNPQPTNTESSKDATIKALQEQKAAALKAL

MNKLKGVLIFFIGGFATIVTISLVYHQKPKAPLNNQPSLLNDDEVKYPLQDYTFTQNPQPTNTESSKDATIKALQEQKAAALKAL

MNKLKGVIVFFIGGFATITISLVYHQKPKAPLNNQPSLLNDDEVKYPLQDYTFTQNPQPTNTESSKDATIKALQEQKAAALKAL

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85

85

logo

NTDB id 26780 HELPY RS00230 WP 001045895.1  
NTDB id 1218 CAA10657.1 2413..3543( )  
consensus

NSKEMNYSKEETFKSPPIDPNTTPPKKDFSLKQLDLLAARITPFKQSPKNYEENLIFPVDNPNKGIDGFTNLKEKDIATNENKLLR

NSKEMNYSKEETFKSPPIDPKTTPPKKDFSLKQLDLLAARITPFKQSPKNYEENLIFPVDNPNKGIDGFTNLKEKDIATNENKLLR

NSKEMNYSKEETFKSPPIDPNTTPPKKDFSLKQLDLLAARITPFKQSPKNYEENLIFPVDNPNKGIDGFTNLKEKDIATNENKLLR

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

170

170

logo

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consensus

TITADKMIPAFLLTPISSQIAGKVIAQVESDIFAHMGKAVLIPKGSKVIGYYSNNNMGEYRLDIVWSRIITPHGINIMLTNAKG

TITADKMIPAFLLTPISSQIAGKVIAQVESDIFAHMGKAVLIPKGSKVIGYYSNNNMGEYRLDIVWSRIITPHGINIMLTNAKG

TITADKMIPAFLLTPISSQIAGKVIAQVESDIFAHMGKAVLIPKGSKVIGYYSNNNMGEYRLDIVWSRIITPHGINIMLTNAKG

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255

255

logo

NTDB id 26780 HELPY RS00230 WP 001045895.1  
NTDB id 1218 CAA10657.1 2413..3543( )  
consensus

ADIKGYNGLVGELIERNFQRYGVPLLLSTLTNGLLIGITSALNNRGNKEGATNFFGDYLLMLMRQSGMGINQVWNQILRDKSKI

ADIKGYNGLVGELIERNFQRYGVPLLLSTLTNGLLIGITSALNNRGNKEGATNFFGDYLLMLMRQSGMGINQVWNQILRDKSKI

ADIKGYNGLVGELIERNFQRYGVPLLLSTLTNGLLIGITSALNNRGNKEGATNFFGDYLLMLMRQSGMGINQVWNQILRDKSKI

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

340

340

<0

logo

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consensus

APIWIREGSRVFI SPNTDIFFP PRENEVIAEFLK

APIVVIREGSRVFISPNTDIFFPPIPRENEVIAEFLK.

APIVVIREGSRVFISPNTDIFFPPIPRENEVIAEFLK\*

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

376

376

X

 non conserved

X

 similar

X

 ≥ 50% conserved