

NTDB id 25 SA RS06185 WP 000593194.1	MIK	LFL	LK	LYW	AH	F	ST	K	Q	I	H	Q	F	L	M	A	P	N	V	I	K	E	E	G	R	K	K	D	S	Y	L	C	E	W	VNREENV	L	L	R	K	Y	A	F	I	K	L	D	H	N	D	I	K	E	71														
NTDB id 1250 GC085 RS13065 WP 027219989.1	..M	N	N	L	Q	P	L	L	A	L	N	R	M	K	..R	I	G	P	R	..T	V	L	K	L	Q	K	R	W	P	D	L	N	L	M	F	Q	L	S	S	V	D	I	E	E	A	G	L	P	S	W	L	A	C	T	..I	K	N	F	D	P	D	F	I	K	T	D	66
NTDB id 599 KW2 RS05940 WP 021037268.1	.M	I	T	N	F	D	..L	F	R	W	K	..K	A	G	M	T	N	L	G	V	N	K	L	L	K	F	F	R	K	Y	D	R	K	I	S	L	R	Q	..G	Q	V	A	Q	V	K	S	I	P	N	F	I	E	Q	...Y	K	N	Q	D	V	K	L	R	A	D	66		
NTDB id 407 SMU RS04605 WP 002262865.1	..M	D	N	F	Q	L	F	L	K	K	..K	A	G	L	T	N	L	N	I	L	..N	I	I	D	Y	E	E	R	T	Q	K	S	L	R	D	..A	V	V	S	K	N	K	K	P	L	I	F	M	E	H	...Y	K	N	L	D	S	K	A	L	R	K	E	65				
NTDB id 61595 SCI RS04800 WP 020997792.1	..M	D	N	F	D	I	Y	K	L	K	..T	A	G	L	T	N	Q	Q	V	I	..N	V	L	E	Y	A	E	I	R	E	K	E	L	S	V	K	D	..A	V	V	S	E	C	R	N	P	A	L	F	I	E	K	..Y	L	Q	L	D	D	D	L	L	R	Q	E	65		
NTDB id 525 SMSK321 RS06295 WP 000705298.1	M	K	I	T	N	Y	I	Y	K	L	K	..K	S	G	L	T	N	Q	Q	I	L	..K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	..Y	F	Q	I	D	D	A	H	L	E	K	E	67	
NTDB id 497 SM12261 RS05565 WP 000705318.1	M	K	I	T	N	Y	I	Y	K	L	K	..K	S	G	L	T	N	Q	Q	V	L	..A	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	..Y	F	Q	I	D	D	A	H	L	E	K	E	67	
NTDB id 267 KZH43 RS05590 WP 000705306.1	M	K	I	T	N	Y	I	Y	K	L	K	..K	S	G	L	T	N	Q	Q	I	L	..K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	..Y	F	Q	I	D	D	A	H	L	S	K	E	67	
NTDB id 226 SPD RS05990 WP 000705306.1	M	K	I	T	N	Y	I	Y	K	L	K	..K	S	G	L	T	N	Q	Q	I	L	..K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	..Y	F	Q	I	D	D	A	H	L	S	K	E	67	
NTDB id 192 SPR RS05715 WP 000705306.1	M	K	I	T	N	Y	I	Y	K	L	K	..K	S	G	L	T	N	Q	Q	I	L	..K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	..Y	F	Q	I	D	D	A	H	L	S	K	E	67	
NTDB id 157 SP RS06205 WP 000705306.1	M	K	I	T	N	Y	I	Y	K	L	K	..K	S	G	L	T	N	Q	Q	I	L	..K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..A	D	I	S	G	C	R	N	P																				

NITD id	25 SA RS06185 WP 000593194.1	LQK L K . . . V S Y I T Y M D S E Y P V L L K E I Y Q F P L L L F Y K G N I K L I N N M H L A V V G A R D S T S Y T Q Q S L E F L L S N D K S K Y L T I V S G L A Q	152
NTDB id	1250 GC085 RS13065 WP 027219989.1	L N W L S S E N H H I L T W D S P Y Y P A L L K E I A D P P F I L Y A K G E L S A L T Q . P S L A I V G S R N A S V T C G N E N A R A F S R E T S R H G V S I V S G L A L	150
NTDB id	599 KW2 RS05940 WP 021037268.1	Y K K F S S F S I L D D L Y P E R L R E I Y N P P V L I F Y Q G N I D L L K N . P K L A F V G S R L A G Q S G I K S V Q K I V T E L N . Q S F T I V S G L A K	143
NTDB id	407 SMU RS04605 WP 002262865.1	F N R F P S L S I D K E Y P L E K N I Y N P P V L L F Y Q G D L L A R . P K L A V V G S R N A S Q M G V A A V K K I I Q D L S . K Q F V I S G L A R	142
NTDB id	61595 SCI RS04800 WP 020997792.1	F K F K P S F S I L E D V Y P W D L S E I Y N P P V L L F Y K G N L D L L K L . P K V A V V G S R N S S R V G S Q S V K K I I K E L N . N E L V I V S G L A R	142
NTDB id	525 SMSK321 RS06295 WP 000705298.1	F K K I P S F S I L D D C Y P W D L S E I Y D A P V L L F Y K G N L D L L K F . P K V A V V G S R S C S K Q G A K S V E K V I Q G L E . N E L V I V S G L A K	144
NTDB id	497 SM12261 RS05565 WP 000705318.1	F Q K F P S F S I L D D C Y P W D L S E I Y D A P V L L F Y K G N L D L L K F . P K V A V V G S R A C S K Q G A K S V E K V I Q G L E . N E L V I V S G L A K	144
NTDB id	267 KZH43 RS05590 WP 000705306.1	F Q K F P S F S I L D D C Y P W D L S E I Y D A P V L L F Y K G N L D L L K F . P K V A V V G S R A C S K Q G A K S V E K V I Q G L E . N E L V I V S G L A K	144
NTDB id	226 SPD RS05990 WP 000705306.1	F Q K F P S F S I L D D C Y P W D L S E I Y D A P V L L F Y K G N L D L L K F . P K V A V V G S R A C S K Q G A K S V E K V I Q G L E . N E L V I V S G L A K	144
NTDB id	192 SPR RS05715 WP 000705306.1	F Q K F P S F S I L D D C Y P W D L S E I Y D A P V L L F Y K G N L D L L K F . P K V A V V G S R A C S K Q G A K S V E K V I Q G L E . N E L V I V S G L A K	144
NTDB id	157 SP RS06205 WP 000705306.1	F Q K F P S F S I L D D C Y P W D L S E I Y D A P V L L F Y K G N L D L L K F . P K V A V V G S R A C S K Q G A K S V E K V I Q G L E . N E L V I V S G L A K	144
consensus		* * * * *	*

NTDB id 25 SA RS06185 WP 000593194.1	GADAMAHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQSG	237
NTDB id 1250 GC085 RS13065 WP 027219989.1	GIDAH AHLGCL EG GGGKTI AVLGTGIDCIYPRRLKLA EQITENGLLLSEFPLKSPPTIAGHFPLRNRIISGLSLCTLVIEAAIKSG	235
NTDB id 599 KW2 RS05940 WP 021037268.1	GIDTASHL SAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLA KYQLVLSEYSLGEKPLKYHFPERNRIIAGLSRGVWVVEAKLRSG	228
NTDB id 407 SMU RS04605 WP 002262865.1	GIDTAAHLASLKS GGATIAVIGTGLDVHYPKENRRLLQDYIAKNHLLVLSEYEAQS QPLKYHFPERNRIIAGLSQGVMAEAKIRSG	227
NTDB id 61595 SCI RS04800 WP 020997792.1	GIDTSAHMAALQNGGR TIAVIGTGLDVFPYRANKKLQSYLGEHHLVLSEYGEAEPLKFHFPERNRIIAGLCRGVIVAEAKMRSG	227
NTDB id 525 SMSK321 RS06295 WP 000705298.1	GIDTAAHMAALQNGGKTI AVIGTGLDVFPYKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 497 SM12261 RS05565 WP 000705318.1	GIDTAAHMAALQNGGKTI AVIGTGLDVFPYKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 267 KZH43 RS05590 WP 000705306.1	GIDTAAHMAALQNGGKTI AVIGTGLDVFPYKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 226 SPD RS05990 WP 000705306.1	GIDTAAHMAALQNGGKTI AVIGTGLDVFPYKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 192 SPR RS05715 WP 000705306.1	GIDTAAHMAALQNGGKTI AVIGTGLDVFPYKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 157 SP RS06205 WP 000705306.1	GIDTAAHMAALQNGGKTI AVIGTGLDVFPYKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
consensus	! * ! * * * ! * * * * * * * * * ! ! ! ! * * * ! * * * * ! ! * * * * * * * * * * * * ! * * ! ! * * * * * * * * * ! * ! * ! ! ! ! ! * ! * * * * * * * ! * * * ! !	

logo

NTDB id 25 SA RS06185 WP 000593194.1	SHITIDFALEQNRNVYVLPGSMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI	290
NTDB id 1250 GC085 RS13065 WP 027219989.1	SLITARMALEQNRDVLAI PGSIHNPLARGCHYLLQQGAKLVTSVADVLDDELKIEHHQFTSNKPIFSLASGKENLVKFIGFETTTI	320
NTDB id 599 KW2 RS05940 WP 021037268.1	SLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQGAKLVYQAQDILEEYLYN	282
NTDB id 407 SMU RS04605 WP 002262865.1	SLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF	280
NTDB id 61595 SCI RS04800 WP 020997792.1	SLITCERAMEEGRDVF AIPGSILDGRSDGCHHLIQEGAKCIASGADVLS EFQF	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	SLITCERAMEEGRDVF AIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	SLITCERAMEEGRDVF AIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	SLITCERAMEEGRDVF AIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 226 SPD RS05990 WP 000705306.1	SLITCERAMEEGRDVF AIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 192 SPR RS05715 WP 000705306.1	SLITCERAMEEGRDVF AIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 157 SP RS06205 WP 000705306.1	SLITCERAMEEGRDVF AIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
consensus	! * ! ! * * * ! * ! * * ! * * * * ! ! * * * * * * * ! * * * * ! * ! ! ! * * * * * ! * * * * * * *	

logo

NTDB id 25 SA RS06185 WP 000593194.1	DQ I I D R S G Y G M E Q V T S G L A E L E L K G A V I A V P G G Y I R C E Y E R	290
NTDB id 1250 GC085 RS13065 WP 027219989.1	DQ I I D R S G Y G M E Q V T S G L A E L E L K G A V I A V P G G Y I R C E Y E R	361
NTDB id 599 KW2 RS05940 WP 021037268.1		282
NTDB id 407 SMU RS04605 WP 002262865.1		280
NTDB id 61595 SCI RS04800 WP 020997792.1		280
NTDB id 525 SMSK321 RS06295 WP 000705298.1		282
NTDB id 497 SM12261 RS05565 WP 000705318.1		282
NTDB id 267 KZH43 RS05590 WP 000705306.1		282
NTDB id 226 SPD RS05990 WP 000705306.1		282
NTDB id 192 SPR RS05715 WP 000705306.1		282
NTDB id 157 SP RS06205 WP 000705306.1		282
consensus		

- non conserved
- similar
- ≥ 50% conserved