

NTDB id	1323	RAOC RS07335 WP 004916218.1	. . M L V K V Y G S A I H G V S A Q T I T I E V N V D Q G V . G Y H L V G L P D N A I K E S S H R I S A A L K N V G Y K L P G K K I T I N M A P A D L R K E G S	77
NTDB id	1271	LPP RS03220 WP 011213198.1	. . M S L A F T K T R S T I G I V A Q P V S V E V H L S N G L P S F T M V G L A E T A V K E S K D R V R S A I I N S Q F E F P C R K I T V N L G P A N L P K T G S	79
NTDB id	1248	GC085 RS03150 WP 011213198.1	. . M S L A F T K T R S T I G I V A Q P V S V E V H L S N G L P S F T M V G L A E T A V K E S K D R V R S A I I N S Q F E F P C R K I T V N L G P A N L P K T G S	79
NTDB id	211336	BLE401 RS12505 WP 062153294.1	M Y A L S V V H S R A Q V G I Q A I P V T I E V H L T G C L P S L S I V G L P E A A V K E S K D R V R S A L L N T Q F D F P L Q R V T I N L A P A D L P K E G G	80
NTDB id	1153	A1552VC RS00115 WP 000521788.1	. . M G L A I I H S R A S I G V Q A P P V T V E V H I S N G M P G F T L V G L P E T T V K E S R D R V R S A I I N S R F E F P A K R I T V N L A P A D L P K E G G	79
NTDB id	1397	DSB67 RS15690 WP 005535577.1	. . M G L A I I H S R A S V G V Q A P S V S V E V H I S N G M P G F T L V G L P E T T V K E S K D R V R S A I V N S N F Q F P A K R I T V N L A P A D L P K E G G	79
NTDB id	1349	HI 1117 AAC22771.1	. . M S L A I I V S R A S M G V Q A P L V T I E V H L S N G K P G F T L V G L P E K T V K E A Q D R V R S A L M N A F K F Y P A K R I T V N L A P A D L P K E G G	79
NTDB id	1387	A4U84 RS06900 WP 020457569.1	. . M S L A I I V S R A S I G V E A P L V T I E V H I S G G S P G L T L V G L P E K S V K E A Q D R V R S A L M N A N F D Y P A R R I T I N L A P A D L P K E G G	79
consensus			* ! * * * * * * * ! * ! * * * * ! * * * * ! * * * * * ! ! ! * * * * ! ! * * * * ! * * ! * * * * * ! * * ! * *	

NTDB id 1323	RAOC RS07335 WP 004916218.1	A	Y	D	L	S	T	A	L	G	I	L	A	A	S	G	Q	I	A	P	E	I	E	R	V	L	I	M	G	E	L	S	I	D	G	G	L	Q	P	I	K	G	V	L	P	I	A	I	R	A	E	E	G	F	K	G	I	L	P	K	Q	N	T	R	E	A	A	I	V	N	D	L	E	V	Y	G	V	E	157			
NTDB id 1271	LPP RS03220 WP 011213198.1	G	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	.	N	Q	H	L	I	T	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	158		
NTDB id 1248	GC085 RS03150 WP 011213198.1	G	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	.	N	Q	H	L	I	T	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	158		
NTDB id 211336	BLE401 RS12505 WP 062153294.1	R	F	D	L	P	I	A	L	G	I	L	A	A	S	G	Q	I	P	S	Q	L	S	E	Y	E	F	I	G	E	L	A	S	G	E	L	R	P	I	R	G	V	L	P	V	A	M	A	V	R	D	K	.	Q	R	K	L	V	P	A	D	N	A	A	E	A	S	M	V	R	N	T	P	I	L	P	I	K	159			
NTDB id 1153	A1552VC RS00115 WP 000521788.1	R	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	A	R	N	K	L	E	S	Y	E	F	I	G	E	L	A	S	G	E	I	R	G	V	K	G	V	L	P	A	A	L	A	N	Q	V	.	E	R	C	L	V	V	P	H	S	N	G	D	Q	A	A	L	V	G	V	E	R	H	K	S	A	Q	158		
NTDB id 1397	DSB67 RS15690 WP 005535577.1	R	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	A	T	D	K	L	K	N	Y	E	F	V	G	E	L	A	S	G	E	L	R	T	V	K	G	V	L	P	A	A	L	A	N	K	K	.	Q	R	H	L	V	V	P	H	A	N	G	D	Q	A	A	L	V	G	K	E	Q	H	K	S	A	Q	158		
NTDB id 1349	HI 1117 AAC22771.1	R	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	A	D	A	S	H	L	K	G	F	E	F	V	A	E	L	A	T	G	E	L	R	G	V	H	G	V	I	P	A	I	L	A	A	Q	K	S	.	K	R	E	L	I	T	A	K	Q	N	A	N	E	A	S	L	V	S	D	Q	N	T	Y	F	A	Q	158
NTDB id 1387	A4U84 RS06900 WP 020457569.1	R	F	D	L	P	I	A	L	G	I	L	A	A	S	G	Q	I	D	S	D	K	L	K	R	I	E	L	L	G	E	L	S	T	G	H	L	R	G	V	H	G	A	I	P	A	V	L	A	A	S	K	A	.	K	R	E																									

NTDB id	1323	RAOC RS07335 WP 004916218.1	N I K E V I D F F N E N C P L E P T K V N T R E E F H K R V N L F P F D S E V K G Q E T A K R A M E V A A A G G H N I I L I G P P G S G K T M L A K R I P S I	237
NTDB id	1271	LPP RS03220 WP 011213198.1	N L R E V C D Y L C Q G T S L Q S L P P K P D L . . . L L N N Y E L D W S D I K G Q Q H A K N A M V I A A C G G H S I L L S G A P G S G K T M M A K R F S T L	234
NTDB id	1248	GC085 RS03150 WP 011213198.1	N L R E V C D Y L C Q G T S L Q S L P P K P D L . . . L L N N Y E L D W S D I K G Q Q H A K N A M V I A A C G G H S I L L S G A P G S G K T M M A K R F S T L	234
NTDB id	211336	BLE401 RS12505 WP 062153294.1	H L L D I C A H L H G T T P I T P . . H C M D N V P H P T Y T H H P I D L N E V R G Q H H A K R A L E V A A A G G H N L L M L G P P G T G K T M L A S R M A T I	237
NTDB id	1153	A1552VC RS00115 WP 000521788.1	S L L E V C A D L C G Q Q T L S L F Q S S P S V . . . Q Q V S Q T R D L Q D I I G Q Q Q G K R A L E I A A A G N H N L L F L G P P G T G K T M L A S R L C D L	234
NTDB id	1397	DSB67 RS15690 WP 005535577.1	S L L E V C A E L C G Q H Q L N L Y Q T P K K K . . . E L K A H G R D L Q D I I G Q Q Q G K R A L E I A A A G N H N L L F L G P P G T G K T M L A S R L C D L	234
NTDB id	1349	HI 1117 AAC22771.1	T L L D V V Q F L N G Q E K L P L A T E I V K E S A V N F S G K N T L D L T D I I G Q Q H A K R A L I A A A G Q H N L L F L G P P G T G K T M L A S R L T G L	238
NTDB id	1387	A4U84 RS06900 WP 020457569.1	T L L Q V V N F L N N R D Q L P I A Q Q L S Q N I A E N . R P L V S R D L T D I I G Q Q H A K R A L I A A S G Q H N L L F L G P P G T G K T M L A S R L A D L	237
consensus			* * * * *	*

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NTDB id 1323 RA0C RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 211336 BLE401 RS12505 WP 062153294.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus

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NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus

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- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved