

logo

NTDB id 372 SMU RS05280 WP 002262198.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTTEIRRHFTLKGSGRMIGAKSSA	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTTEIRRHFTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEEELLQLS	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEEELLQLS	160
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HTLMAETVTGTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAACQRVGVVKKHQSILEELKLYTQYTPDISNDLPQQDSTSFEPINYIIEP	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAACQRVGVVKKHQSILEELKLYTQYTPDISNDLPQQDSTSFEPINYIIEP	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	EPEVWATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEG..IDTDLNIWVGEQENFAALNN	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	25
NTDB id 1143 A1552VC RS01965 WP 001883436.1	MRLCPRFSLDLLVKVKKLVNFVTLGFSCLSPTHAWRSPQ.SFTESNT	46
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVWATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEG..IDTDLNIWVGEQENFAALNN	558
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	LMRYFLHTL...KGGANMVQATYLGGLIAHELESYIERLIQKQLVVTSDLIDFIRLVQDDLADR...LQIM...REQQL	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	28
NTDB id 1143 A1552VC RS01965 WP 001883436.1	LIMFRFYRKQKFKRLQNTLMAAFLALSIIPL.....TITALFFLHSHSKDLEQQSTSYLVSVRDNKQQQVI	112
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LMRYFLHTL...KGGANMVQATYLGGLIAHELESYIERLIQKQLVVTSDLIDFIRLVQDDLADR...LQIM...REQQL	626
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

```
NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1143 A1552VC RS01965 WP 001883436.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 54871 OSC7112 RS21125 WP 039886668.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
```

EMITTVTSQENEVAANEQDIEAVVEQTFLEEATELLEMA.ESLLKQWFEQRTNRSIL	0
RMTLDFNSPEAELDALFTDEDAPTTAIDPFESSSWLEID.....QMMEADPLASIPETNAPAYQTAGGLDDNDLAE LQD	144
.....SGDQIK...TSVLPQSSSYVGSERYRLH...KRYHWAYL.....	200
EMITTVTSQENEVAANEQDIEAVVEQTFLEEATELLEMA.ESLLKQWFEQRTNRSIL	0
.....	762
.....	0
.....	0
.....	0

```

NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1143 A1552VC RS01965 WP 001883436.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 54871 OSC7112 RS21125 WP 039886668.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

```

EMITTVTSQENEVAANEQDIEAVVEQTFLEEATELLEMA.ESLLKQWFEQRTNRSIL	0
RMTLDFNSPEAELDALFTDEDAPTTAIDPFESSSWLEID.....QMMEADPLASIPETNAPAYQTAGGLDDNDLAE LQD	144
.....SGDQIK...TSVLPQSSSYVGSERYRLH...KRYHWAYL.....	200
EMITTVTSQENEVAANEQDIEAVVEQTFLEEATELLEMA.ESLLKQWFEQRTNRSIL	0
.....	762
.....	0
.....	0
.....	0

```
NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1143 A1552VC RS01965 WP 001883436.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 54871 OSC7112 RS21125 WP 039886668.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
```

LLGVGDVEPAITTPALYHSFKAGARWELINLYLYRYLNMVYFAAYDGFNNILDGLIN.....YQDYNHHTFTL	0
LLGVGDVEPAITNPGLHSFAGADRVTPLTNEVLL.....FAAIDD.....LDGLIN.....APVLDEEFSFTEL	203
.....ELLKRS.....DFDDILLVDIDGNVVYSIYKYDNFGTNLLTGK.....YQDTNLGHT..FKRL	251
.....	0
.....LQLQRAVHSLKGGARMVGLEAVQAIAYQLENAFEQFALHHFNSNIYDHLLSAIAWLKDAIFNHN..YQHF	831
.....	0
.....	0
.....	0

```

NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1143 A1552VC RS01965 WP 001883436.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 54871 OSC7112 RS21125 WP 039886668.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

```

5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	5
---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---

logo

NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	QLDNLSNLIGELVVKRNRLREQDQERLRQFLDNLL...NQ...AQNLSDVGGRMQDLYERTLLEGALLASRSTNSRRHHSSK	356
NTDB id 1143 A1552VC RS01965 WP 001883436.1	AITKLI AEGSSNP SM. Q TILVGQDHR SRTL TSAE IAVEKSKAVVDLALSGKRAVGTYTNT..DGEQI.....I	370
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LIEKMIDLSGENSINRSRIEMDLSQFSHTLV.....EMELAIQRLADQLRRM..EGELE.....T	954
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	TTYPDARITASSSSTMNDQPLDALEMDRFTGFHLLSQEMIELIVRVRES.ASDIQYLVDETDQ....VARTLRQVTTQL	430
NTDB id 1143 A1552VC RS01965 WP 001883436.1	AAYAPINLKN....IHWALVVELPEKEAFARVRQLEKLFVFAMLTAVLVVVIASHYLSNFITSPLLKLTWAAERVSAGDL	446
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	QIIAKHGIEH....SRYTDF.DPLEMDQYSSLNQLSKSLAESA...SDLVDFK.NTSDKIRDTE.SLLLQQSRIQ.AEI	1023
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	QEGMTKS.RMVPFTQTAD...RLPRAIREVSMKLNKKVNLEVE.....GGDVLIDKMIL.....EHLNPMTH	489
NTDB id 1143 A1552VC RS01965 WP 001883436.1	DEAMINTERKDEIGRLAVSFERMQRSIREKISLIKSQ.NKELESNLLIIRKQNDLQLANKLKDEFLATTSHELRTPH	525
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	QEGLMRT.RLVPPFSR...LLPRLQRIVRQTSTALNRP.....AE.LFVN..NTEGELDRNIL.....ERLVTPLEH	1082
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	LVNNAITHGIETPAERQKLGKSPEGHLAV..RA.FLQGNQTLITVSDDGAGINTEMVKQKAVEKGLISRMEAQSLSQSEV	566
NTDB id 1143 A1552VC RS01965 WP 001883436.1	MIGIAE..AL.....ISGANGPISA AHKYQLDIISSGQRLA.TLVDD..LLDYHKMRYGALDI..QRC..AVDLSSATR	591
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MLRNAIDHGLEDRAQRQQANKPETG..RIELNIQR.QGTDVVVVVSDDGQGIDVEKVRQKALLAGLIK..EQDLEQQDI	1157
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	YDLLEFHA...GFSTKDTADDFAGRGVGLDVVRTSLIDIRGAINIESTVVGKGTTFTR...LPLTLSICKALCCLSDRARI	0
NTDB id 1419 SGL RS12550 WP 010873252.1	LVLELSHHLLGKKTLRIINQVSEQPVVWS...ADPQRLE..QVLYNLIGNAIKYTSEGKIVISATYIDDKVRVQVVDTGQ	640
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	666
NTDB id 413 AAK55817.1 141..845()	LQLIFHP...GLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVSVESVYGQGTTFTR...VPTTVAVSDALMVKVADQQF	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1231
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	AFPMDGVEDTRDYLPKDIVT.DEDGQKCVKYGKEALLPLYPLKDLLN....YNRQLSRGSVYGGKQEEDVVRVVIARG	0
NTDB id 1419 SGL RS12550 WP 010873252.1	GIPAEQLEHIFEPL.....IQAG.....HDAS.....RYRQGAGLGLSISRQLIELMHGTLYV.....SSQPM...	714
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	719
NTDB id 413 AAK55817.1 141..845()	AIPLAQIDRIIRVSPASLEQYFESPQELFEYENK....RYPLR.YLSEFVGNQPIPRNLNGVMYS.....LPVLMIKA	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1298
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	SSGNLLALQIDQVLGEEE.IVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELIEIAQGRRLRTDSSGGLWRKTL...T	0
NTDB id 1419 SGL RS12550 WP 010873252.1	VGTTFSFTLPLASEEEIAQARLTEL.....PHFQA.....PEVLDSELPE.Q	790
NTDB id 1143 A1552VC RS01965 WP 001883436.1	.....	760
NTDB id 413 AAK55817.1 141..845()	NNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIARQIQS.....TQ.RHKQLSEAV	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1370
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	MNYKEKKLILDDNPETLEMVQESLNIACFNNLTGVQSKKEALEQKGRSF.DIALLDIMLPDGSCEVLRER...	73
NTDB id 1419 SGL RS12550 WP 010873252.1	PTVNEVHMDPTVLIVDDSIIVRELLLSLFFKKACFRVEQAR.DGQEAWDQLKSGLPCLVFCDIEMPRKNGLELSELQAD	869
NTDB id 1143 A1552VC RS01965 WP 001883436.1	SNLPENEHGPLLIVADDEPVNLRVLDSDLRLCEYRVHTAQ.DCHQVLEALKREKP.ELVLDIMPMGMSGYQVCEKLRQT	838
NTDB id 413 AAK55817.1 141..845()	MKKLILVDDEKPIISDIIKFNTKECEVVTAF.NGREALEQFEAEQP.DIIILDLMLPEIDGLEVAKTIR..	68
NTDB id 1046 HON27 RS03130 WP 168726941.1	YRQRESDERRLIMIVDDSVTVRKVTSRLLERQCYDVVTAK.DGVDAIEQIENIKP.DIMLLDIEMPRMDGFEVNLNVRHH	1448
NTDB id 1047 HON27 RS03110 WP 000389061.1	..MEDAFQNLKVMVIDDSKTIRRTAETLLQREGCEVITAV.DGFEALSKIAEANP.DIVFVDIMPRMDGYGTALIKNS	76
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	MSTVMVDDSVTLREMIADLLKGRGLNVTVAS.DGVEALEQIKANRP.DLVVLDIIMPRMNGYEVCRRLKSD	70
NTDB id 1417 SGL RS04200 WP 014407071.1	MNAVILIVEDSSSQREMIISGILKDKHCWQVTIAC.DGVLEALEKIQNFSP.DLVVLDIIMPRMNGYEVCRRLKSD	70
consensus	*****!* ***** * !* * ** ** ***** * *****!* *****!* * !***** **	

logo

NTDB id 372 SMU RS05280 WP 002262198.1	.KTSTIPVILFSAVSDIEKQYQCFELGADDYIVKPF	142
NTDB id 1419 SGL RS12550 WP 010873252.1	EELSSIPVALLTSRGADRRHKVAAKLGATGYFTKPYTEKDILDAANRMLNGEVLLPGSTRKTN	949
NTDB id 1143 A1552VC RS01965 WP 001883436.1	YDHAELPTIIMLTALNQSDDRVRGFEAGANDYLSKPFNKQELAARTVAHLTASKAELRRIEN	913
NTDB id 413 AAK55817.1 141..845()	.KTSSVPITMLSAKDSEFDKVICLEIGADDYVTKPFSNRELQARVKATLRRSQPMPVDGQ	133
NTDB id 1046 HON27 RS03130 WP 168726941.1	DMHQYMPIIMTTSRTGEEKHRERAFSLGVSQYMGKPFQEEELTENIDALLVAFESEVKS	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	QNYQNIPIVIMLSSKDGLFDQAKGRVVGSDVYITKPF	127
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	PKTQNLPIVVMCSSKSEEFDRYWCMKQGADAYIAKPFHPQELVGTIKQLLRG	121
NTDB id 1417 SGL RS04200 WP 014407071.1	PKTKNIPVIMCSSKGEFFDRFWGMRQGADAYIAKPFQPMELVGTIKQLLRN	121
consensus	*!***** * ** * *!*** !* !!* *** * **	

logo

NTDB id 372 SMU RS05280 WP 002262198.1	QALITKGELEIQLTAKEYSILKVLYNNQNRIVTFDQLLE....KVVWGLQYQGYENTMM...	196
NTDB id 1419 SGL RS12550 WP 010873252.1	PTIVRSNPGTLRSTVLIIDDSVMVREMLSMFTKKAD...YHTETA.....RDGQDAWEK	1013
NTDB id 1143 A1552VC RS01965 WP 001883436.1	ASLLETQGRLLLEQLESAPAILCVKEGNKVRFANEAAARLFRRTPEQLKRSNAEELIAPKFLNIEQEHYCG...	987
NTDB id 413 AAK55817.1 141..845()	QPIQIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLT...	200
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

<0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	AHIRKI.....RQKIEA....NP....SKPECLLT	229
NTDB id 1419 SGL RS12550 WP 010873252.1	IEMPRMNGLELLERIQE...DPNLS.RIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIETLLEASQR.LIRG....	1082
NTDB id 1143 A1552VC RS01965 WP 001883436.1	VYVDDV.....RQHLSADVLRLPQGSGLQAMYIFNVGG.....SVNAARIHNLETAVEALSSYAFEGDKDKL	1049
NTDB id 413 AAK55817.1 141..845()	VTVRRL.....REKIED....TP....SRPEYILTRRG.....VGYYMRNNA*	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	.....	229
NTDB id 1419 SGL RS12550 WP 010873252.1	EVLLDLAALSADL.....	1095
NTDB id 1143 A1552VC RS01965 WP 001883436.1	QKLKELGGEFTRLADKASGEYQSKQDLMAVLVEAMTSALNYWERVSGQSKFTFAEQSGLWRVYLDRSTLQTRTL	1129
NTDB id 413 AAK55817.1 141..845( )	.....	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	IETLPKTPRWRTVLNSLDYILEHCKEAGPERTHIEMQDKLQKLLTSE	229
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	1095
NTDB id 1143 A1552VC RS01965 WP 001883436.1	IETLPKTPRWRTVLNSLDYILEHCKEAGPERTHIEMQDKLQKLLTSE	1177
NTDB id 413 AAK55817.1 141..845( )	.....	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 54871 OSC7112 RS21125 WP 039886668.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved