

logo

		MSXLEIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1306 DR RS10060 WP 027479822.1		.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1028 TT RS08215 WP 011173991.1		MSVLTIGDKRLGAILLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1384 A4U84 RS08525 WP 010787006.1		.....	0
NTDB id 1355 HI 0298 AAC21962.1		.....	0
NTDB id 309854 CH631 RS03650 WP 116939874.1		.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1		.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1		.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1		.....	0
NTDB id 1293 VP RS12240 WP 005479695.1		.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1		.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1		.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		.....	0
consensus		.....	0

logo

		RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLLEIVVPSGA	157
NTDB id 1306 DR RS10060 WP 027479822.1		RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLLEIVVPSGA	157
NTDB id 1028 TT RS08215 WP 011173991.1		ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLISLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	158
NTDB id 1384 A4U84 RS08525 WP 010787006.1		.....	0
NTDB id 1355 HI 0298 AAC21962.1		.....	0
NTDB id 309854 CH631 RS03650 WP 116939874.1		.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1		.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1		.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1		.....	0
NTDB id 1293 VP RS12240 WP 005479695.1		.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1		.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1		.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		.....	0
consensus		.....	0

logo

		SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFFHPGEEVL	237
NTDB id 1306 DR RS10060 WP 027479822.1		SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFFHPGEEVL	237
NTDB id 1028 TT RS08215 WP 011173991.1		SGEGQKDLKLGELLQKQWISREALEEALVEQEKTGDLGRILV.RKGLPEEALYRALAEQKGLFLESTEGIVPDPSAA	237
NTDB id 1384 A4U84 RS08525 WP 010787006.1		.....	0
NTDB id 1355 HI 0298 AAC21962.1		.....	0
NTDB id 309854 CH631 RS03650 WP 116939874.1		.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1		.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1		.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1		.....	0
NTDB id 1293 VP RS12240 WP 005479695.1		.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1		.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1		.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		.....	0
consensus		.....	0

logo

NTDB id 1306 DR RS10060 WP 027479822.1	LSMLRADALRLLAVPVDETEQGVTVLTS DPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLLGEQLVQEGTLSR	317
NTDB id 1028 TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 309854 CH631 RS03650 WP 116939874.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus	.....	0

logo

NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLVQSGKLSPEMLARSLLAAQLGYEFLDPIQ	397
NTDB id 1028 TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLVQSGKLRPEALAAQAVATQLGYPYVDPEE	397
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....MSQYTI.....CEQQTERIFD.....	16
NTDB id 1355 HI 0298 AAC21962.1	.....MTSYALLHTQRVTAKNGEVFT.....	21
NTDB id 309854 CH631 RS03650 WP 116939874.1	.....MTGYALLHTQRVTAQNGEVFT.....	21
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....MTSYALLHTQRVTAQNGEIFT.....	21
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....MLTNLVAIIRQAELISATQEAVVTQVSASGTSVPEALLSLSIFHAQELTEQLSHIFGLPETDLSR	66
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....MLTNLSTVLRQAGILTFQSQESLLEQVKASGISMPEALLSSGFFQSHLTELSSVFGLSCTSLSLQ	66
NTDB id 1293 VP RS12240 WP 005479695.1	.....MHSNLSTILRQKGLLTFQSQESLIEQVKASGISMPEALLSSGFFTSSSLAEHLSSIFGLSQPELSQ	66
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLFSDGVTISPKSLAALIAARVFSYSILDLRH	65
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEEKISLLQYIVKNKILSAEQIALTAQNFVPMPLDINC	74
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEITISLEFCEPLLDLGV	74
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....MSALHTSPKFTGFRRLLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAFAEPYFDLDV	74
consensus*.....*.....**.....*.....*.....***.....*	

logo

NTDB id 1306 DR RS10060 WP 027479822.1	NPPDPKVALMPEATARRVYVVVVRRLQGNLSLVVAMKDPNRNVFALDDLKLITG.....KEILPAVMAEKDIIIRLIERFYFGE	472
NTDB id 1028 TT RS08215 WP 011173991.1	DPPDPGAPLLLPEDLCRRYGVPFHRLEGNRLVLLMKDPRNILALDDVRLALKRKGLNYEVAPAVATEAAITKLIERYFYGK	477
NTDB id 1384 A4U84 RS08525 WP 010787006.1	ISPSRWQKNCEEKQLLLRRLAVPVQETEHKLLWAVDDENNLTACEIFAFMTH.....KQIEPVVITASDELKYLINALSPE	91
NTDB id 1355 HI 0298 AAC21962.1	ISPDLWERNQQQSSLLRLRYFALPLKEENNRLWLGVDLSNLSACETIAFITG.....KPVEPILLESSQLKELLQQLTPN	96
NTDB id 309854 CH631 RS03650 WP 116939874.1	ISPDLWERNQQQSSLLRLRYFALPLKEENNRLWLGVDLSNLSACETIAFITG.....KPVEPILLESSQLKELLQQLTPR	96
NTDB id 1366 NTHI RS01950 WP 011271972.1	ISPDLWERNQQQSSLLRLRYFALPLKEENNRLWLGVDLSNLSACETIAFITG.....KPVEPILLESSQLKELLQQLTPH	96
NTDB id 1168 A1552VC RS11070 WP 000957200.1	YDYANLCQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATG.....LQVELALADHRAALQAAIRRLYGR	141
NTDB id 1401 DSB67 RS12665 WP 010643259.1	YEYASLCQTLGLRDLITRHNAIPLNRTSSTLILAVADPTNLQAEDDFRFATG.....LQVELVLADFRELTAAIRRLYGR	141
NTDB id 1293 VP RS12240 WP 005479695.1	YEYASLCQQLGLRELITRHNAIPLHRTPTSTLLAVADPTNQAEDDFRFATG.....LQVELVLADFRELSTAIRRLYGR	141
NTDB id 1110 NGFG RS09235 WP 003689817.1	YPRHRVLMGVLTEEQMVVEFHCVPVFRRGDKVFAVSDPTQMPQIQKTVSAAG.....IAVELVIVEDDQLAGLLDWVGRS	140
NTDB id 1251 GC085 RS07725 WP 011946523.1	IDVGTIPVNLVNEKLIKRRHAMVPLFRSGTNLYLATDPPSKQASLKEITQFHTG.....LNTHAIVVETDKLSALIDNLLTA	149
NTDB id 1018 ACIAD RS01685 WP 004920473.1	FDPALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPIIVEHDKLERLLSEHFVE	149
NTDB id 1058 ABD1 RS01615 WP 001274986.1	YDTSQIPKDLVDQKLLILKHRIIPLIQRGQILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVEHHKLEKVLGQHFAE	149
consensus*.....**.....**.....*!*.....*****.....*.....*.....*.....*.....*.....*****.....*.....**.....*	

logo

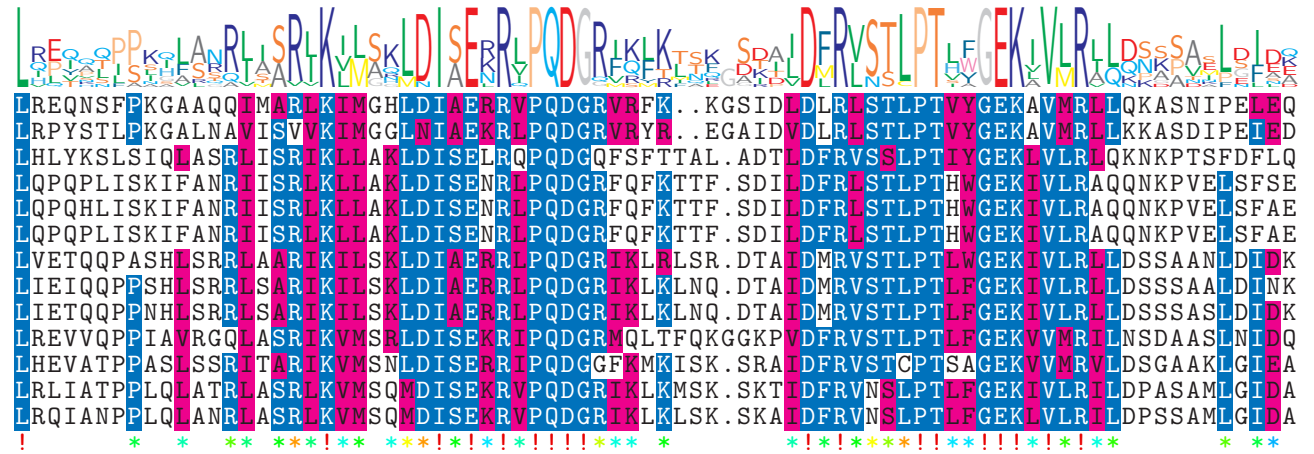
NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1355 HI 0298 AAC21962.1
 NTDB id 309854 CH631 RS03650 WP 116939874.1
 NTDB id 1366 NTHI RS01950 WP 011271972.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 consensus



541
544
154
159
159
159
219
219
219
209
228
223
223

logo

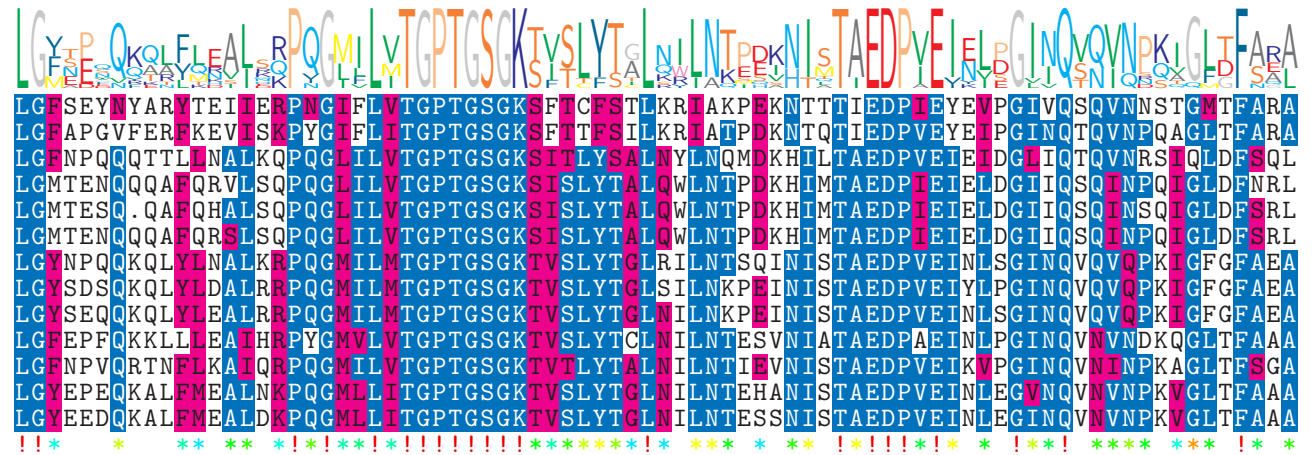
NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1355 HI 0298 AAC21962.1
 NTDB id 309854 CH631 RS03650 WP 116939874.1
 NTDB id 1366 NTHI RS01950 WP 011271972.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 consensus



619
622
233
238
238
238
298
298
298
289
307
302
302

logo

NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1355 HI 0298 AAC21962.1
 NTDB id 309854 CH631 RS03650 WP 116939874.1
 NTDB id 1366 NTHI RS01950 WP 011271972.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 consensus



699
702
313
318
317
318
378
378
378
369
387
382
382

logo

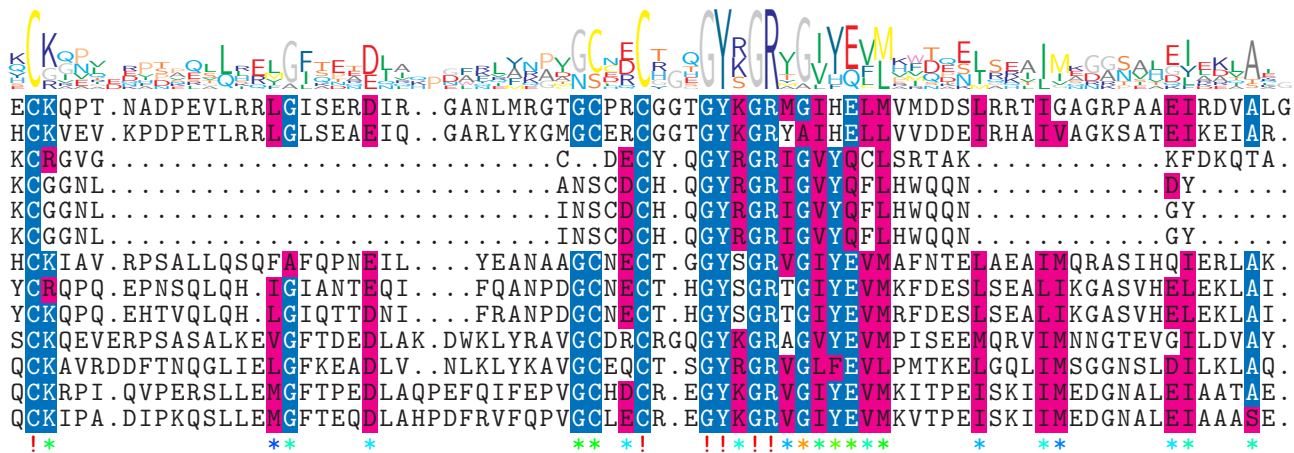
NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1355 HI 0298 AAC21962.1
 NTDB id 309854 CH631 RS03650 WP 116939874.1
 NTDB id 1366 NTHI RS01950 WP 011271972.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 consensus



779
782
393
398
397
398
458
458
458
449
467
462
462

logo

NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1355 HI 0298 AAC21962.1
 NTDB id 309854 CH631 RS03650 WP 116939874.1
 NTDB id 1366 NTHI RS01950 WP 011271972.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 consensus



856
858
429
431
430
431
531
530
530
527
543
539
539

logo

NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1355 HI 0298 AAC21962.1
 NTDB id 309854 CH631 RS03650 WP 116939874.1
 NTDB id 1366 NTHI RS01950 WP 011271972.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 consensus



887
889
461
464
463
464
562
561
561
558
574
570
570

 non conserved
 similar
 $\geq 50\%$ conserved