

# Table S5. Structure-based sequence alignments for DS<sub>CO</sub> pairs in Datasets L and M performed by several protein structural comparison methods

The structure-based sequence alignments performed by TM-align [31], SARST [34] and the proposed DS-detecting method as well as the sequence alignments performed by BLAST [42] for the 1,093 DS<sub>CO</sub> pairs shown in Table S4 are listed here. In this table, hinge loops of the query and subject proteins are highlighted in red and blue, respectively. Aligned residues with identical amino acid types are highlighted in green while those with equal or positive substitution rates defined in the BLOSUM62 substitution matrix [58] are highlighted in light green. TM-align is an accurate protein structural comparison (PSC) method which also showed the best DS-detecting ability among the PSC methods treating protein structures as rigid bodies (Fig. 2c). SARST is a flexible PSC method which does not treat protein structures as rigid bodies and showed much better DS-detecting performance than conventional rigid PSC methods (Fig. 2c). BLAST is the most widely used amino acid sequence alignment method. As shown in this table, a rigid PSC method almost always gives very local alignments, which means it only aligns one pair of domains of a DS<sub>CO</sub> pair. A flexible PSC method often produces alignments more global than a rigid PSC method by simultaneously aligning the main and swapped domains. A sequence alignment method can make quite global alignments for DS-related proteins; however, if the sequence identity of a DS<sub>CO</sub> pair is <25%, in most cases the alignment will either be still very local or be not available at all (note that there are 55% DS<sub>CO</sub> pairs in this table sharing <25% identities). Only the proposed method always simultaneously aligns the hinge loops, main domains and swapped domains.

No.	PDB entry (size)	DS type	Identity (%)	Alignment
1	1brnL (108)	N	99.07	<p>TM-align: aliSize=73 (resi)      RMSD=0.97 (Å)</p> <p>vintfdgvadylqtyhklpdnyitkseaqalgwv-----SKGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR            -----vintfdgvadylqtyhklpdnyitkseaqalgwvASKGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR</p> <p>SARST: aliSize=106 (resi)      RMSD=17.16 (Å)</p> <p>v-INTFDGVADYLQTYHKLDPNYITKSEAQALGWVASKGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR-r            -vINTFDGVADYLQTYHKLDPNYITKSEAQALGWVASKGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR-r</p> <p>BLAST: aliSize=108 (resi)      iden=100.00% (108/108)      simi=100.00% (108/108)</p> <p>VINTFDGVADYLQTYHKLDPNYITKSEAQALGWVASKGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR            VINTFDGVADYLQTYHKLDPNYITKSEAQALGWVASKGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR</p> <p>Proposed: aliSize=107 (resi)      RMSD=0.47 (Å)</p> <p>VINTFDGVADYLQTYHKLDPNYITKSEAQALGWVAS-KGNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR            VINTFDGVADYLQTYHKLDPNYITKSEAQALGWVASK-GNLADVAPGKSIIGDIFSNREGKLPKSGRTWREADINYTSGFNRNSDRILYSSDWLIYKTTDHYQTFTKIR</p>
	1yvsA (108)			
2	4icbA (76)	C	96.05	<p>TM-align: aliSize=48 (resi)      RMSD=1.79 (Å)</p> <p>MKSPEELKGI FEKYAAKEGDPNQLSKEELKLLQTEFPSSLK-GPSIld--Elfe--ldkngdgevsfeefqvlvkkisq-----            MKSPEELKGI FEKYAAKEGDPNNLSKEELKLLQTEFPSSLKGMST---ldel---fe-----ldkngdgevsfeefqvlvkkisq</p> <p>SARST: aliSize=69 (resi)      RMSD=10.69 (Å)</p> <p>mk--SPEELKGI FEKYAAKEGDPNQLSKEELKLLQTEFPSSLKGPSTLDELFEEL-DKNGDGEVSFEFQVLVK----kisk            --mkSPEELKGI FEKYAAKEGDPNNLSKEELKLLQTEFPSSLK-GMSTLDELFEEL-DKNGDGEVSFEFQVLVKkisk----</p> <p>BLAST: aliSize=74 (resi)      iden=97.37% (74/76)      simi=97.37% (74/76)</p> <p>MKSPEELKGI FEKYAAKEGDPNQLSKEELKLLQTEFPSSLKGPSTLDELFEELDKNGDGEVSFEFQVLVKKISQ            MKSPEELKGI FEKYAAKEGDPNNLSKEELKLLQTEFPSSLKGMSTLDELFEELDKNGDGEVSFEFQVLVKKISQ</p> <p>Proposed: aliSize=74 (resi)      RMSD=0.97 (Å)</p> <p>MKSPEELKGI FEKYAAKEGDPNQLSKEELKLLQTEFPSSLK-G--psTLDELFEELDKNGDGEVSFEFQVLVKKISQ            MKSPEELKGI FEKYAAKEGDPNNLSKEELKLLQTEFPSSLKGMs--TLDELFEELDKNGDGEVSFEFQVLVKKISQ</p>
	1ht9A (76)			

3	<p>IhngA (175)</p> <hr/> <p>IcdcA (96)</p>	C	97.92	<p>TM-align: aliSize=54 (resi) RMSD=1.17 (Å)  dsgtvgalghginlnipnfqmtddidevrwergstlvaefkRK-----MKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIlemvskpmiywecsnatl tcevegTdvelklygqkehlrslrqktsyqwt  -----gtvwgalghginlnipnfqmtddidevrwergstlvaefkRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIE-----E-----</p> <p>nIrapfkckavnrvsqesemevncpe</p> <p>SARST: aliSize=92 (resi) RMSD=18.76 (Å)  dsg-TVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRI----ilemvskpmiywecsnatl tcevegTdvelklygqkehlrslrqktsyqwt nIrapfkckavnrvsqesemevncpe  ---gTVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIle-----</p> <p>BLAST: aliSize=96 (resi) iden=98.96% (95/96) simi=100.00% (96/96)  dsg-TVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIlemvskpmiywecsnatl tcevegTdvelklygqkehlrslrqktsyqwt nIrapfkckavnrvsqesemevncpe  ---gTVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIle-----</p> <p>Proposed: aliSize=96 (resi) RMSD=1.01 (Å)  dsg-TVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIlemvskpmiywecsnatl tcevegTdvelklygqkehlrslrqktsyqwt nIrapfkckavnrvsqesemevncpe  ---gTVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKPFLKSGAFEILANGDLKIKNLTRDDSGTYNVTVYSTNGTRILNKALDLRIle-----E-----</p>
4	<p>IorcA (64)</p> <hr/> <p>5croA (61)</p>	C	93.44	<p>TM-align: aliSize=57 (resi) RMSD=1.69 (Å)  --QRITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVKDGEvkpfpsn--  meQRITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVKPPF-----sn</p> <p>SARST: aliSize=55 (resi) RMSD=3.06 (Å)  qr----ITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVKdgeVKPPF-sn  --meqrITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVKPPF-----VKPPFs--</p> <p>BLAST: aliSize=58 (resi) iden=96.67% (58/61) simi=96.67% (58/61)  --QRITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVKdgevKPPPSn  meQRITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVK-----PPPS-</p> <p>Proposed: aliSize=59 (resi) RMSD=1.24 (Å)  --QRITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVKdgeVKI fpsn  meQRITLKDYAMRFGQTKTAKDLGVYQSAINKA IHAGRK IFLT INADGSVYAEVK---PPF---sn</p>
5	<p>2ezmA (101)</p> <hr/> <p>3ezmA (101)</p>	C	100.00	<p>TM-align: aliSize=51 (resi) RMSD=1.06 (Å)  LGKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSnfiETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE-----  LGKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQP-----snfiETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE</p> <p>SARST: aliSize=99 (resi) RMSD=16.28 (Å)  l-GKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSNF IETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE-e  -l-GKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSNF IETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE-e</p> <p>BLAST: aliSize=101 (resi) iden=100.00% (101/101) simi=100.00% (101/101)  LGKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSNF IETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE  LGKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSNF IETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE</p> <p>Proposed: aliSize=101 (resi) RMSD=0.82 (Å)  LGKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSNF IETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE  LGKFSQTCYNsAIQGSVLTSTCERInGGYNTSSIDLNSV IENVdGSLK WQPSNF IETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE</p>

6	<p>ImdtA (523)</p> <hr/> <p>1ldtA (523)</p>	C	98.85	<p>TM-align: aliSize=390 (resi) RMSD=2.34 (Å)</p> <p>-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTTtKGenftetdtkmmervveqmcitqyeresqayr-----  gavvgg-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTT--TTK-----genftetdtkmmervveqmcitqyeresqayr-----</p> <p>SARST: aliSize=521 (resi) RMSD=15.63 (Å)</p> <p>l-----GGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTV----TtTKgenFTETDVKMMERVVEQMCITQYERESQA--yyqr  -gavvgglGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVt t t t KGEN----FTETDVKMMERVVEQMCITQYERESQAyy----</p> <p>BLAST: aliSize=523 (resi) iden=100.00% (523/523) simi=100.00% (523/523)</p> <p>-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTTtKGenftetdtkmmervveqmcitqyeresqayr  gavvgg-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTTtKGENftetdtkmmervveqmcitqyeresqayr-----</p> <p>Proposed: aliSize=517 (resi) RMSD=0.84 (Å)</p> <p>-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVt---TtKgenFTETDVKMMERVVEQMCITQYERESQAyyqR  gavvgg-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVt t t t KGEN---ENFTETDVKMMERVVEQMCITQYERESQAyy--Y</p>
7	<p>IqlxA (104)</p> <hr/> <p>Ii4mA (108)</p>	C	92.31	<p>TM-align: aliSize=70 (resi) RMSD=1.85 (Å)</p> <p>-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTTtKGenftetdtkmmervveqmcitqyeresqayr-----  gavvgg-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTT--TTK-----genftetdtkmmervveqmcitqyeresqayr-----</p> <p>SARST: aliSize=95 (resi) RMSD=20.86 (Å)</p> <p>l-----GGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTV----TtTKgenFTETDVKMMERVVEQMCITQYERESQA--yyqr  -gavvgglGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVt t t t KGEN----FTETDVKMMERVVEQMCITQYERESQAyy----</p> <p>BLAST: aliSize=102 (resi) iden=98.08% (102/104) simi=98.08% (102/104)</p> <p>-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTTtKGenftetdtkmmervveqmcitqyeresqayr  gavvgg-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVTTtKGENftetdtkmmervveqmcitqyeresqayr-----</p> <p>Proposed: aliSize=99 (resi) RMSD=1.56 (Å)</p> <p>-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVt---TtKgenFTETDVKMMERVVEQMCITQYERESQAyyqR  gavvgg-----LGGYMLGSAMSRPI IHFGSDYEDRYRENMHRYPNQVYRPMDEYSNQNNFVHDCVNIITIKOHTVt t t t KGEN---ENFTETDVKMMERVVEQMCITQYERESQAyy--Y</p>
8	<p>Ihz5A (72)</p> <hr/> <p>IjmlA (72)</p>	C	88.89	<p>TM-align: aliSize=60 (resi) RMSD=1.68 (Å)</p> <p>--MHHHHHHamEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKgytlnikfag-----  mhHHHHHGM--EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPK-----aytlnikfag</p> <p>SARST: aliSize=69 (resi) RMSD=11.31 (Å)</p> <p>mh--HHHHHAMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKGYTLNlKfA-g  --mhHHHHHGMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNlKfA-g</p> <p>BLAST: aliSize=68 (resi) iden=94.44% (68/72) simi=94.44% (68/72)</p> <p>MHHHHHHAMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKGYTLNlKfAG  MHHHHHGMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNlKfAG</p> <p>Proposed: aliSize=70 (resi) RMSD=1.58 (Å)</p> <p>--MHHHHHHamEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKGYTLNlKfAG  mhHHHHHGM--EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNlKfAG</p>

9	5rsaA (124)	N	100.00	<p>TM-align: aliSize=105 (resi) RMSD=0.85 (Å)  ketaaakferqhmdsst <b>sa</b>-----ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV  -----ketaaakferqhmdsst <b>sa</b>ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV</p> <p>SARST: aliSize=122 (resi) RMSD=14.18 (Å)  k-ETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV -v  -kETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV -v</p> <p>BLAST: aliSize=124 (resi) iden=100.00% (124/124) simi=100.00% (124/124)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.54 (Å)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACEGNPYVPVHFDASV</p>
10	5rsaA (124)	C	100.00	<p>TM-align: aliSize=115 (resi) RMSD=1.27 (Å)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYvpvhfdasv-----  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.84 (Å)  k-ETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV -v  -kETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV -v</p> <p>BLAST: aliSize=124 (resi) iden=100.00% (124/124) simi=100.00% (124/124)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.43 (Å)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV</p>
11	5rsaA (124)	C	100.00	<p>TM-align: aliSize=115 (resi) RMSD=1.38 (Å)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYvpvhfdasv-----  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.27 (Å)  k-ETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV -v  -kETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV -v</p> <p>BLAST: aliSize=124 (resi) iden=100.00% (124/124) simi=100.00% (124/124)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.57 (Å)  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV  KETAAAKFERQHMDSSST<b>SAASS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHI IVACE<b>GN</b>PYPVHFDASV</p>
	1js0A (124)			

12	<p>5rsaA (124)</p> <hr/> <p>1bsrA (124)</p>	N	81.45	<p>TM-align: aliSize=104 (resi) RMSD=0.79 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaakferqhmdsgnspssSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.79 (Å)  k-ETAAAKFERQHMDSSTSAASS-NYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDAS-v  -kESAAAKFERQHMD-SGNPSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVPVHFDAS-v</p> <p>BLAST: aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDSSTSAASSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  KESAAAKFERQHMDSGNPSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.91 (Å)  KETAAAKFERQHMDSSTSAASSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  KESAAAKFERQHMDSGNPSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVPVHFDASV</p>
13	<p>1qmpA (126)</p> <hr/> <p>1dz3A (123)</p>	C	89.43	<p>TM-align: aliSize=106 (resi) RMSD=1.72 (Å)  S1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLI-I1MPHLDGLAVLER1RAGFEHQPNV1MLTA--FGQEdVTKKAVELGAsYF1LKPF-DMEEnlahhi rqvvgktpvv-----  S1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLId1MPHLDGLAVLER1RAGFEHQPNV1MLTAfgQED--VTKKAVELGA-SYF1LKPFDMEnlahhi rqvvgkt</p> <p>SARST: aliSize=116 (resi) RMSD=6.93 (Å)  s-1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLI-I1MPHLDGLAVLER1RAGFEHQPNV1MLTAFGOEDVTKKAVELGASYF1LKPF-D--MENLAHHI1RQ--vygktpvv  -s1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLId1MPHLDGLAVLER1RAGFEHQPNV1MLTAFGOEDVTKKAVELGASYF1LKPFDMEnLAHHI1RQVYGkt-----</p> <p>BLAST: aliSize=122 (resi) iden=99.19% (122/123) simi=99.19% (122/123)  S1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLI-I1MPHLDGLAVLER1RAGFEHQPNV1MLTAFGOEDVTKKAVELGASYF1LKPFDMENLAHHI1RQVYGKtpvv  S1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLId1MPHLDGLAVLER1RAGFEHQPNV1MLTAFGOEDVTKKAVELGASYF1LKPFDMENLAHHI1RQVYGKt---</p> <p>Proposed: aliSize=121 (resi) RMSD=1.33 (Å)  S1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLI-I1MPHLDGLAVLER1RAGFEHQPNV1MLTA-FGQEdVTKKAVELGAsYF1LKPF-DMENLAHHI1RQVYGKtpvv  S1KVC1ADDNRELVSLLDEY1SSQPDMEV1GTAYNGQDCLQMLEEKRPDI1LLId1MPHLDGLAVLER1RAGFEHQPNV1MLTAfgQED-VTKKAVELGA-SYF1LKPFDMENLAHHI1RQVYGKt---</p>
14	<p>1sncA (135)</p> <hr/> <p>1sndA (129)</p>	C	99.22	<p>TM-align: aliSize=111 (resi) RMSD=1.64 (Å)  LHKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAQKEKLN1WS-----  LHKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYTH-----EQ-----hlrkseaqakkeklniws</p> <p>SARST: aliSize=127 (resi) RMSD=9.66 (Å)  l-1HKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAQKEKLN1WS-s  -1HKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYT-----HEQHLRKSEAQAQKEKLN1WS-s</p> <p>BLAST: aliSize=129 (resi) iden=100.00% (129/129) simi=100.00% (129/129)  LHKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAQKEKLN1WS  LHKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAY-----THEQHLRKSEAQAQKEKLN1WS</p> <p>Proposed: aliSize=129 (resi) RMSD=0.93 (Å)  LHKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAQKEKLN1WS  LHKPATL1KAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFSTKKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVA-----YTHEQHLRKSEAQAQKEKLN1WS</p>

15	<p><b>1wwwX (101)</b></p> <hr/> <p><b>1wwaX (105)</b></p>	N	100.00	<p><b>TM-align: aliSize=87 (resi) RMSD=1.23 (Å)</b>  vsfpasvqlhtave-----MHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  -----vsfpasvqlhtaveMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF fefn</p> <p><b>SARST: aliSize=99 (resi) RMSD=15.39 (Å)</b>  v-SFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----p  -v-SFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF pfeFn-</p> <p><b>BLAST: aliSize=101 (resi) iden=100.00% (101/101) simi=100.00% (101/101)</b>  VSFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  VSFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF fefn</p> <p><b>Proposed: aliSize=101 (resi) RMSD=0.68 (Å)</b>  VSFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  VSFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF fefn</p>
16	<p><b>1wwwX (101)</b></p> <hr/> <p><b>1wwbX (103)</b></p>	N	45.54	<p><b>TM-align: aliSize=84 (resi) RMSD=1.18 (Å)</b>  vsfpasvqlhtavem-----HHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  -----vhfaptitflesptSDHHWCIPFTKGNPKPALQFYNGAILNESKYICIKIHVTN--HTEYHGCLQLDNPHTMNGDYTLIAKNEYKDEKQISAHFMGWgid</p> <p><b>SARST: aliSize=97 (resi) RMSD=15.51 (Å)</b>  v-SFPASV-QHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLepAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----p  -vHFAPTITFLESPTSDHHWCIPFTKGNPKPALQFYNGAILNESKYICIKIH--VTNHTHEYHGCLQLDNPHTMNGDYTLIAKNEYKDEKQISAHFMGWgid-</p> <p><b>BLAST: aliSize=65 (resi) iden=47.52% (48/101) simi=64.36% (65/101)</b>  VSFPASVOLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLepAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  vhfaptitflesptSDHHWCIPFTKGNPKPALQFYNGAILNESKYICIKIH--HVTNHTHEYHGCLQLDNPHTMNGDYTLIAKNEYKDEKQISAHFMGWgid</p> <p><b>Proposed: aliSize=99 (resi) RMSD=1.10 (Å)</b>  VSFPASV-QHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  vhfaptitflesptSDHHWCIPFTKGNPKPALQFYNGAILNESKYICIKIHVTN--HTEYHGCLQLDNPHTMNGDYTLIAKNEYKDEKQISAHFMGWgid</p>
17	<p><b>1wwwX (101)</b></p> <hr/> <p><b>1wwcA (105)</b></p>	N	41.58	<p><b>TM-align: aliSize=84 (resi) RMSD=1.68 (Å)</b>  vsfpasvqlhtave-----MHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  -----tvyypprvvsleepelRLEHCIEFVRCNPPPTLHWLHNGQPLRESKI HVEYYQE---GEISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHELKEfpvde</p> <p><b>SARST: aliSize=96 (resi) RMSD=12.04 (Å)</b>  v--SFPASV-QHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----p  -tvYYPRVVSLEEPELRLEHCIEFVRCNPPPTLHWLHNGQPLRESKI HVEYYQEG---EISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHELKEfpvde-</p> <p><b>BLAST: aliSize=54 (resi) iden=41.58% (42/101) simi=53.47% (54/101)</b>  vsf-----PASVOLHTA-VEHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  ---tvyypprvvsleepelRLEHCIEFVRCNPPPTLHWLHNGQPLRESKI HVEYYQEG---EISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHELKEfpvde</p> <p><b>Proposed: aliSize=97 (resi) RMSD=1.13 (Å)</b>  v-SFPASV-QHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRRLNQPTHVNNNGNYTLAANPFGQASASIMAAAFMDNF-----  tvYYPRVVSLEEPELRLEHCIEFVRCNPPPTLHWLHNGQPLRESKI HVEYYQEG---EISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHELKEfpvde</p>

18	<p><b>1dksA</b> (76)</p> <hr/> <p><b>1cksA</b> (74)</p>	C	83.78	<p><b>TM-align:</b> aliSize=61 (resi) RMSD=1.57 (Å)  s-KHQIYYSDKYDDEEFYRHMVLPKDIANKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEphillfrrplpkp-----  -aHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPE-----phillfrrplpk</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=14.87 (Å)  skhq----IYYSDKYDDEEFYRHMVLPKDIANKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLP-kkp  ----ahkqIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPEPHILLFRRPLPk---</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=81.08% (60/74) simi=87.84% (65/74)  skh---QIYYSDKYDDEEFYRHMVLPKDIANKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPKkp  ---ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPEPHILLFRRPLPK--</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=1.37 (Å)  s-KHQIYYSDKYDDEEFYRHMVLPKDIANKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPKp  -aHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPEPHILLFRRPLPK--</p>
19	<p><b>4gcrA</b> (174)</p> <hr/> <p><b>1blbA</b> (185)</p>	N	36.78	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=1.63 (Å)  -----GKTFYEDRGFOGHCYECSSDCPNLOPY-FSRCNSIRVDSICWMLYERPNOYHOYFLRRCDYDYOOWM--GFNDSIRSCNLPQHTGTFmriyerddfrgqmseitddcpslqdrfhltevhslnvlegswvlyempsyrgqyllrpegyrryldwgamnakvgsllrvmdfy-----  apqplnPKIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQPIVGYEQANCKGEQVFEKGEYPRWDSWtsSRRTDSLSPKVDSE-----hkitlye</p> <p>-----  nnpftgkkmviddvpsfhahgyqekvsrvrqsqgtwvgyqygyrglqyllekgykdsqdfgapqqvqsvrirdmqw</p> <p><b>SARST:</b> aliSize=167 (resi) RMSD=16.15 (Å)  g-----KTFYEDRGFOGHCYECSSDCPNLOPY-FSRCNSIRVDSICWMLYERPNOYHOYFLRRCDYDYOOWM--MGFNDSIRSCNLPQHTGTFMRRIYERDDFRGMSIITDCCPSLODRFHLTEHSLNVLGSLWVLYEMPSYRGRDYLRPEYRRYLQWGMNAKVGSLRRVM----mdfy  -apqplnPKIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQPIVGYEQANCKGEQVFEKGEYPRWDSWtsSRRTDSLSPKVDSEHKITLYENPNFTKMEViddvps-FHAHGYQEKSVRQSGTGWGYQYGYRGLDYLLKDYKDSGDFGAPQPOVQSVRRIRdmqw---</p> <p><b>BLAST:</b> aliSize=97 (resi) iden=37.36% (65/174) simi=55.75% (97/174)  g-----KTFYEDRGFOGHCYECSSDCPNLOPY-FSRCNSIRVDSICWMLYERPNOYHOYFLRRCDYDYOOWM--GFNDSIRSCNLPQHTGTFMRRIYERDDFRGMSIITDCCPSLODRFHLTEHSLNVLGSLWVLYEMPSYRGRDYLRPEYRRYLQWGMNAKVGSLRRVM----fy  -apqplnPKIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQPIVGYEQANCKGEQVFEKGEYPRWDSWtsSRRTDSLSPKVDSEHKITLYENPNFTKMEViddvps-FHAHGYQEKSVRQSGTGWGYQYGYRGLDYLLKDYKDSGDFGAPQPOVQSVRRIRdmqw---</p> <p><b>Proposed:</b> aliSize=171 (resi) RMSD=1.30 (Å)  -----GKTFYEDRGFOGHCYECSSDCPNLOPY-FSRCNSIRVDSICWMLYERPNOYHOYFLRRCDYDYOOWM--GFNDSIRSCNLPQHTGTFMRRIYERDDFRGMSIITDCCPSLODRFHLTEHSLNVLGSLWVLYEMPSYRGRDYLRPEYRRYLQWGMNAKVGSLRRVM----fy  kpqplnPKIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQPIVGYEQANCKGEQVFEKGEYPRWDSWtsSRRTDSLSPKVDSEHKITLYENPNFTKMEViddvps-FHAHGYQEKSVRQSGTGWGYQYGYRGLDYLLKDYKDSGDFGAPQPOVQSVRRIRdmqw---</p>
20	<p><b>1cewI</b> (108)</p> <hr/> <p><b>1g96A</b> (111)</p>	N	39.81	<p><b>TM-align:</b> aliSize=58 (resi) RMSD=2.19 (Å)  gapvpvdendeglqralqfamaeynrasndkyssrvrvvisakrql-----VSGIKYIQLQVEIGRTTCPKSSGdLQsCEFHDEpEM----AKYTTCTVWVSIPLNQIKLLESKCG--  -----vvgpmdasveeegvr raldfavgeynkasndmyhsralqvvrarkqiVAGVNYFLDVELGRITCTKTPN-----LNCNPFHDqphlKRKAFCSQIYAVPWOGTMTLSKSTCda</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=19.74 (Å)  g--APVPVDENDEGLQRALQFAMAENRASNDKISSRVVRIISAKRQLVSGIKYIQLQVEIGRTTCPKSSGdLQsCEFHDEPEMA-----KYTTCTVWVSIPLNQIKLLESKCG---q  -vgGPMASVVEEgVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRITCTKTPN-----LNCNPFHDqphlKRKAFCSQIYAVPWOGTMTLSKSTCda</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=45.37% (49/108) simi=70.37% (76/108)  -APVPVDENDEGLQRALQFAMAENRASNDKISSRVVRIISAKRQLVSGIKYIQLQVEIGRTTCPKSSGdLQsCEFHDEPEMAKYTTCTVWVSIPLNQIKLLESKCG--  vgGPMASVVEEgVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRITCTKTPN-----LNCNPFHDqphlKRKAFCSQIYAVPWOGTMTLSKSTCda</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=1.45 (Å)  -APVPVDENDEGLQRALQFAMAENRASNDKISSRVVRIISAKRQLVSGIKYIQLQVEIGRTTCPKSSGdLQsCEFHDEPEMA-----KYTTCTVWVSIPLNQIKLLESKCG--  vgGPMASVVEEgVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRITCTKTPN-----LNCNPFHDqphlKRKAFCSQIYAVPWOGTMTLSKSTCda</p>

21	<p>2gmfA (121)</p> <hr/> <p>lhulA (108)</p>	C	10.19	<p><b>TM-align:</b> aliSize=77 (resi) RMSD=3.07 (Å)  rspsps tqpWEHVNAIOEARRLNLSrDTa-AEMNETVEVISEMFDLQEPCTLOTRLELYKQGL--RG---SLTKLKGPTMMASHYKHC--Pptpetscaqiitfesfkenlkdfllvipfdcw-----E--P-----  -----IPTSALVKETLALLSTHRTLIIANETLRIPVPHKHNH--QLTEEIFOGIGTLEsqTVqggTVERLTKKYLKIDGOKKCG-----eerrrvnqfldylqeflgVmntewi</p> <p><b>SARST:</b> aliSize=87 (resi) RMSD=14.73 (Å)  rspsps tqp-----WEHVNAIOEARRLNLSrdtaaeMNETVEVISEMFDLQEPCTLOTRLELYKQGLRG---SLTKLKGPTMMASHYKHCnpiPETSCAToiiitfesfkenlkdfll-----lvipfdcwep  -----iptsalvkETLALLSTHRTLIIAN-----ETLRIPVPHKHNHQLCTEELFOGIGTLESQTVqggTVERLTKKYLKIDGOKK----KCGEERRR-----VNQFLDYLOEflgvmntewi-----</p> <p><b>BLAST:</b> aliSize=3 (resi) iden=2.78% (3/108) simi=2.78% (3/108)  rspsps tqpwehvnaiqearrllnlsrdtaaeMNETVEVISEMFDLQEPCTLOTRLELYKQGLRG---SLTKLKGPTMMASHYKHCnpiPETSCAToiiitfesfkenlkdfll-----lvipfdcwep  -----iptsalvkETLALLSTHRTLIIANETLRIPVPHKHNHQLCTEELFOGIGTLESQTVqggTVERLTKKYLKIDGOKK-----KCGEERRR-----VNQFLDYLOEflgvmntewi-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.26 (Å)  rspsps tqp-WEHVNAIOEARRLNLS-RD--taaEMNETVEVISEMFDLQEPCTLOTRLELYKQGL--RG---SLTKLKGPTMMASHYKHCnpiPETSCA-T-OITTFESFKENKDFLLVI---Pfdcwep  -----iPT-SALVKETLALLSTHRTLIIANETLRIPVPHKHNH--QLTEEIFOGIGTLEsqTVqggTVERLTKKYLKIDGOKK-----KCGEERRR-----VNQFLDYLOEflgvmntewi-----</p>
22	<p>lmsbA (115)</p> <hr/> <p>lixxA (129)</p>	M	13.04	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.94 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAENKAIQEVAK-----T--SAFLGITDEV-T-EGqfmyvtggrltySNWkkdepndh-----GSGEDVITV--DN-GLNDISQASHAVCE-fpa  dclsgwssYEGHCYKAFEKYKTWEDAERVCTEQakGAHLVSISSGADFVAQLVTqnmkrLdfYIWIIGLRVQGVKQC-----nsewsgsvsyenwIeAESKTLGLEkeTDFRKVNICYGQONPFVCEA--</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=12.21 (Å)  s-----GKKFFVTNHERMPFSKVKALCSEL--RGTVAIPRNAENKAIQEVAKTSafIgitdeVTEGQFMYVTGGRlTYSNWKKDEpndhsgsedvitiVDNGL-----NDISQASHAVCE-fpa  -dclsgwssYEGHCYKAFEKYKTWEDAERVCTEQakGAHLVSISSGADFVAQLVTQNM-----KRLDFYIWIIGLRVQGVKQCSE-----WSDSsvsyenwIeaesktclgleketdfrkVNICYGQONPFVCEA---</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=13.04% (15/115) simi=23.48% (27/115)  sgkkffvtNhermpfskvkalcseLrgtvaiprnaenkaIQevaktsaf-----GITDEVTEGQFMYVTGGRlTYSNWKKDEpndhsgsedvitiVDNGL-----NDISQASHAVCE-fpa  -----dclsgwssYeghcykafekyktwedaervcteqakgahlvsieSSGADFVAQLVTqnmkrLdfyiwIGLRVQGVKQCSEWSDSSVSYENWIEA-----SKTCLGLEkeTDFRKVNICYGQONPFVCEA---</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.64 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAENKAIQEVAK-----T--SAFLGITDEV---TEGQF-MYVTGGRlTYSNWKKDEpndhsgsedvitiVDNGL-----NDISQASHAVCE-fpa  dclsgwssYEGHCYKAFEKYKTWEDAERVCTEQakGAHLVSISSGADFVAQLVTqnmkrLdfYIWIIGLRVQGVKQC--QCNSWSDSSVSYENWIEA-----ESKTLGLEkeTDFRKVNICYGQONPFVCEA--</p>
23	<p>lmupA (157)</p> <hr/> <p>lobpA (158)</p>	C	24.84	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.55 (Å)  eeasst---GRNFVVEKINENHTIILASDKREKEDNENRLLFEOIHVL--ENSLVLEKHTVREECSELSMVADNTEKAgEYSVTYDFNITTPKTDYDNFMAHLIN-DEEFOFOMLYGREPDLSSDIKRFRAOICEHGLRENIIDLNSN-----  -----qeeEAEQNLSELSPPRTVYIGSTNPEKIQENCPRTYFRELVFDDekGTVDfYISVKRdGKWKNVHVKITQDDG-TYVADVEGQVVKVLSL-SRTHVAHNINVDKHQOTTELGLFVKL-----nvededlefwkltedkgidkknvvnflene</p> <p>--ANRC  dhPHPE</p> <p><b>SARST:</b> aliSize=143 (resi) RMSD=13.39 (Å)  eeasstgrn-----FVVEKINENHTIILASDKREKEDNENRLLFEOIHVL--NSLVLEKHTVREECSELSMVADNTEKAgEYSVTYDFNITTPKTDYDNFMAHLIN-DEEFOFOMLYGREPDLSSDIKRFRAOICEHGLRENIIDLNSN-----rc  -----qeeEAEQNLSELSPPRTVYIGSTNPEKIQENCPRTYFRELVFDDekGTVDfYISVKRdGKWKNVHVKITQDDG-TYVADVEGQVVKVLSL-SRTHVAHNINVDKHQOTTELGLFVKL-----nvededlefwkltedkgidkknvvnflene</p> <p><b>BLAST:</b> aliSize=79 (resi) iden=31.21% (49/157) simi=50.32% (79/157)  eeasstgrnf-----FVVEKINENHTIILASDKREKEDNENRLLFEOIHVL--NSLVLEKHTVREECSELSMVADNTEKAgEYSVTYDFNITTPKTDYDNFMAHLIN-DEEFOFOMLYGREPDLSSDIKRFRAOICEHGLRENIIDLNSN-----anrc  -----qeeEAEQNLSELSPPRTVYIGSTNPEKIQENCPRTYFRELVFDDekGTVDfYISVKRdGKWKNVHVKITQDDG-TYVADVEGQVVKVLSL-SRTHVAHNINVDKHQOTTELGLFVKL-----nvededlefwkltedkgidkknvvnflene</p> <p><b>Proposed:</b> aliSize=145 (resi) RMSD=1.92 (Å)  eeasstg---RNFVVEKINENHTIILASDKREKEDNENRLLFEOIHVL--ENSLVLEKHTV--DeECSELSMVADNTEKAgEYSVTYDFNITTPKTDYDNFMAHLIN-DEEFOFOMLYGREPDLSSDIKRFRAOICEHGLRENIIDLNSN--N-rC--  -----qeeEAEQNLSELSPPRTVYIGSTNPEKIQENCPRTYFRELVFDDekGTVDfYISVKRdGKWKNVHVKITQDDG-TYVADVEGQVVKVLSL-SRTHVAHNINVDKHQOTTELGLFVKL-----nvededlefwkltedkgidkknvvnflene</p>



24	<p>1f0vA (124)</p> <p>1h8xA (125)</p>	N	60.48	<p><b>TM-align:</b> aliSize=96 (resi)      RMSD=2.14 (Å)  ketaaakferqhmdsst-----AAAs-SSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKNGQITNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----  -----kesaaakferqhmdsgnsPS-sSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPY-----vpvhfdasve</p> <p><b>SARST:</b>      aliSize=98 (resi)      RMSD=18.19 (Å)  k-ETAAAKFERQHMDSSST---SAAAsSSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKN-----QtncyqsysymsitdcretgssKYPNCAKTTQANKHIIVACEGNPYVPVHFDAS--v  -kESAAAKFERQHMDSGNspSSS---TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b>      aliSize=104 (resi)      iden=73.39% (91/124)      simi=83.87% (104/124)  KETAAAKFERQHMDSSSTAAAsSSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKNGQITNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=111 (resi)      RMSD=1.14 (Å)  KETAAAKFERQHMDSSSTAAAsSSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKN-KNGQtNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGN-----pyvpvhfdasv  KESAAAKFERQHMDSGN-SPSSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPYVPVHFDASve-----</p>
25	<p>1f0vA (124)</p> <p>1h8xA (125)</p>	C	57.26	<p><b>TM-align:</b> aliSize=96 (resi)      RMSD=2.14 (Å)  ketaaakferqhmdsst-----AAAs-SSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKNGQITNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----  -----kesaaakferqhmdsgnsPS-sSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPY-----vpvhfdasve</p> <p><b>SARST:</b>      aliSize=98 (resi)      RMSD=18.19 (Å)  k-ETAAAKFERQHMDSSST---SAAAsSSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKN-----QtncyqsysymsitdcretgssKYPNCAKTTQANKHIIVACEGNPYVPVHFDAS--v  -kESAAAKFERQHMDSGNspSSS---TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b>      aliSize=104 (resi)      iden=73.39% (91/124)      simi=83.87% (104/124)  KETAAAKFERQHMDSSSTAAAsSSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKNGQITNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=103 (resi)      RMSD=1.20 (Å)  ketaaakferqhmdsstaa-----Ss-SSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNVAACKN-KNGQtNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-  -----kesaaakferqhmdsgnsPS-sSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHIIVACEGSPYVPVHFDASVe</p>
26	<p>1griA (211)</p> <p>1fyrA (95)</p>	C	100.00	<p><b>TM-align:</b> aliSize=66 (resi)      RMSD=1.50 (Å)  meaiakydfkataddelsfkrgei kvqnwykaelngkdgfipknyiempkPWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIEeqvpqptyvqal fdfdpqedgelgfrgdfihvmdnsdpnwwkg  -----PWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIE-----</p> <p>achgqtgmfprnyvtpvnrnv-----  -----kfnslnelvdyrstsvsrnqqiflr die</p> <p><b>SARST:</b>      aliSize=93 (resi)      RMSD=11.34 (Å)  meaiakydfkataddelsfkrgei kvqnwykaelngkdgfipknyiempkPWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIEeqvpqptyvqal fdfdpqedgelgfrgdfihvmdnsdpnww  -----hPWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIE-----</p> <p>kgachgqtgmfprnyvtpvnrnv-----</p> <p><b>BLAST:</b>      aliSize=95 (resi)      iden=100.00% (95/95)      simi=100.00% (95/95)  meaiakydfkataddelsfkrgei kvqnwykaelngkdgfipknyiempkPWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIEeqvpqptyvqal fdfdpqedgelgfrgdfihvmdnsdpnwwkg  -----PWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIE-----</p> <p>achgqtgmfprnyvtpvnrnv-----</p> <p><b>Proposed:</b> aliSize=95 (resi)      RMSD=1.35 (Å)  meaiakydfkataddelsfkrgei kvqnwykaelngkdgfipknyiempkPWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIEeqvpqptyvqal fdfdpqedgelgfrgdfihvmdnsdpnwwkg  -----PWFVFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLWVVKFNLSNELVDYHRSTSVSRNQQIFLRDIE-----</p> <p>achgqtgmfprnyvtpvnrnv-----</p>

27	<p>lfynA (62)</p> <hr/> <p>laojA (60)</p>	C	26.67	<p><b>TM-align:</b> aliSize=37 (resi) RMSD=2.49 (Å)  gtgVTLFVALYDYEARTEDDLSPFHGKGFQILN-SSEGDWwearslltgetg-----Yipsnyvapvd-----  ---KKYAKSKYDFVARNSELSVMDDVLELDDRRQWWK-----vrnasgdsgF-----vpnnildimrtpe</p> <p><b>SARST:</b> aliSize=54 (resi) RMSD=12.51 (Å)  gtgvt--LFVALYDYEARTEDDLSPFHGKGFQILN-SSEGDWWEARSLTTGETGYIPLSNYVAPV----d  ----kkYAKSKYDFVARNSELSVMDDVLEL--LDDRRQWWKVRNASGDSGFVNNILDIMrtpe-</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=26.67% (16/60) simi=48.33% (29/60)  gtgvtlfval-----YDYEARTEDDLSPFHGKGFQILN-SSEGDWWEARSLTTGETGYIPLSN-----yvavpd  -----kkyakskYDFVARNSELSVMDDVLELDDRR-QWVKVRN-ASGDSGFVNNildimrtpe-----</p> <p><b>Proposed:</b> aliSize=54 (resi) RMSD=1.10 (Å)  gtgv-TLFVALYDYEARTEDDLSPFHGKGFQILN--sseGDWWEARSLTTGETGYIPLSNYVAPVD---  ----kkYAKSKYDFVARNSELSVMDDVLELDDr--RQWVKVRN-ASGDSGFVNNILDIMRtpe</p>
28	<p>1k3sA (109)</p> <hr/> <p>1k3eA (141)</p>	N	12.84	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=2.12 (Å)  esllnrlydalgldepllii-----DDGTQVYFNESD-HTLE-CCPF-PLPD-DILTLOHFRLNYTS----AVTIGADADNTALVALYRLPOTSTE-EEALTFGLFISNVKOKHEHY-----A-----  -----mssrsellekfaekigigsisfnenrlcsfaiDEIYYISLSDANdEYMMiYGVCGKFTdNSNFALEILNANLWFAengGPYLCYEAGAQSLLALRFLLDDATPEKLENEIEVVKSMENYLVLhnqgiTkieeiss</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=9.77 (Å)  esllnrlyd-----ALGDEPLLIIdgIQVYFNE-SDHTLECCPFPLPD-----IILTLOHFRLNYTSA-VTIGAD-ADNTALVALYRIP---OTSTE-EEALTFGLFISNVKOLKEHY-----a  -----mssrsellekfaekigigsisfnENRCSFAIDEI--YYISLSDANdEYMMiYGVCGKFPtdnsnfAEILNANLWFAENGgPYLCYEaGAQ---SLLAIRfplDDATPEKLENEievVVKSMENLYLVLHNQgitkieeiss-</p> <p><b>BLAST:</b> aliSize=18 (resi) iden=9.43% (10/109) simi=16.98% (18/109)  esllnrlydalgldeplliiddgIQVYFNESDHTLECCPFPLPDdiltlqhflrlnytsavti-----GADADNTALvalyRLP-OTSTE-EEALTFGLFISNVKOLKEHY-----A-----  -----mssrsellekfaekigigsisfnenrlcsfaiDEIYYISLSDANdEYMMiYGVCGKFPtdnsnfAEILNANLWFAENGgPYLCYEAGAQSLLALRFLLDDATPEKLENEIEVVKSMENYLVLhnqgiTkieeiss</p> <p>-----kehya  yvlhnqgitkieeiss-----</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=1.75 (Å)  me-----SLENRLYDALGLD--E-P-----LLIIDDGQVYFNESD-HTLECCPFPLPD-DILTLOHFRLNYTS----AVTIGADADNTALVALYRLPOTSTE-EEALTFGLFISNVKOKHEHY-----A-----  --mssrsellekfaekigigsisfnenrlcsfaiDEIYYISLSDANdEYMMiYGVCGKFPtdnsnfAEILNANLWFAENGgPYLCYEAGAQSLLALRFLLDDATPEKLENEIEVVKSMENYLVLhnqgiTkieeiss</p>
29	<p>1cunA (213)</p> <hr/> <p>2spcA (107)</p>	C	15.89	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=3.03 (Å)  mvhqffrdmdeeswikekklvssedygrdltgvn-LRKKHKLEAELAAHEPNIOSVLD-TG-KKLSdDNTIGK-EEIOORLAOFVDHWKELKOLAAARGORIEESLEYQOFVANVEeEawinekmtlvasedygdltlaaiqglkkheafetdftvhkdrVndvcangedlikknhhveniatak  -----KIDLOLYMRDCELAESWMSAREAFLNADDANA--GNVEALIKKHEDFDKAINGHEQKIAALQTVADQLAQNHYASNLVDEK-----</p> <p>mkgLGKVsDLEKAAAORKALDENSA  ---QV-LE-RWRHLKEGLIEKRSRLGD</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=27.07 (Å)  mvhqffrdmdeeswikekklvssedygrdltgvnLrkkhkrleaelaahapaiqsvldtgkklssdntigkeeiqrqlaqfvdhwkelqklaaargqr--EESLEYQOFVANVEEFAWINEKMTLVASEDYDITLAAIQGLKKHEAFETDFTVHKDRVNDVCANGEDLIKknhhVENITAKMK  -----qnIDLOLYMRDCELAESWMSAREAFLNADDANAGNVEALIKKHEDFDKAINGHEQKIAALQTVADQLAQNHYASNLVDE</p> <p>GLGKVsDLEKAAAORKALDEN--sa  KRQVLERWRHLKEGLIEKRSRLgd--</p> <p><b>BLAST:</b> aliSize=58 (resi) iden=20.56% (22/107) simi=54.21% (58/107)  mvhqffrdmdeeswikekklvssedygrdltgvnLrkkhkrleaelaahapaiqsvldtgkklssdntigkeeiqrqlaqfvdhwkelqklaaargqrleeEESLEYQOFVANVEEFAWINEKMTLVASEDYDITLAAIQGLKKHEAFETDFTVHKDRVNDVCANGEDLIKknhhVENITAKMK  -----QNIDLOLYMRDCELAESWMSAREAFLNADDANAGNVEALIKKHEDFDKAINGHEQKIAALQTVADQLAQNHYASNLVDE</p> <p>LGKVsDLEKAAAORKALDENsa  VLERWRHLKEGLIEKRSRLGD---</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=2.01 (Å)  mvhqffrdmdeeswikekklvssedygrdltgvnLrkkhkrleaelaahapaiqsvldtgkklssdntigkeeiqrqlaqfvdhwkelqklaaargqrleeEESLEYQOFVANVEEFAWINEKMTLVASEDYDITLAAIQGLKKHEAFETDFTVHKDRVNDVCANGEDLIKknhhVENITAKMK  -----QNIDLOLYMRDCELAESWMSAREAFLNADDANAGNVEALIKKHEDFDKAINGHEQKIAALQTVADQLAQNHYASNLVDE</p> <p>GLGKVsDLEKAAAORKALDENSA  KRQVLERWRHLKEGLIEKRSRLGD</p>

30	<p>1wu3I (161)</p> <hr/> <p>1i1kA (151)</p>	C	9.93	<p><b>TM-align:</b> aliSize=99 (resi) RMSD=3.88 (Å)  iny-----KQLqLQeRTNIRKCOELLEOLNGKINL-TYRADFKIPMEMT--KMQkSYTAF AIOEMLNVFL-VFRNFSSTGWNETIIVR LDELHQOTVFKTVLEEKQEEERltwemsstalhlksyywrvqrylklmkynsyawmvvraeifrnfliirrltrnfqn-----skaveqvknafnklqekgiy  -----nscthfPG-NL-PNMLRDLRDAFSRVKTFQMKDQLDNLKESLLdfFKG-YLGCQALSEMIQFYLEeVMPQAEHQDPDIKAHNSGENKTLRLRIRChRFLPCENK-----</p> <p>kamsefdifinyieaymtki rn---</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=20.12 (Å)  inykqlqlqertnirkcqeelleqngkinltyradfkpme-MTEKMQKSYTAF AIOEMLNVFL-VFRNFSSTGWNETIIVR LDELHQOTVFKTVLEEKQEEERLTWE--MSSTALHLKSYWVRYLKLKMYN-----SYAWMVRAEIFRNFLIIRRLTRN-----  -----nscthfPG-NL-PNMLRDLRDAFSrvkTFQMKDqLDNLLKESLLEDFKGYLGCQALSEMIQFYLEEVMPQAEHQdpDIKAHVNSLGENLKTLLRLRChRF1pcenkskaVEQVKNAFNKLOEKG IYKAMSEFDifinyieaymtki</p> <p>--fqn rn---</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=19.21% (29/151) simi=39.74% (60/151)  inykql-----OQERT-NIRKCOELLEOLNGKINLTYRADfkpmeMTEKmqksyta AIOEML--NVFLVFRNFSSTGWNETIIVR LDELHQatvFLKTVLEEKQEEERltwemsstalhlksyWVRYLKLKMYN-SYAWMVVRAE-aeifrnfliirrl  -----nscthfpgnlpnmlrdlrdafsrvkTFQMKDqLDNLLKESLLEDFKGYLGCQALS-----MIQ-----VLEEVMPQAEHQDPDIKAHVNSLGENLKTLLRLRChRF---FLPCENKSKAVEQV--KNAFNKQEGIKAMSEFDIFINIEAYMTKIrn-----</p> <p>trnfqn -----</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.80 (Å)  iny-----KQ-qLQERTNIRKCOELLEqLNG-kIN--lTYRADFKIPMEMT--kMQ-ksYTAF AIOEMLNVFL-VFRNFSSTGWNETIIVR LDELHQOTVFKTVLEEKQEEERLTWemsstALHLKSYWVRYLKLKMYN-SYAWMVVRAE-IFRNFLIIRRLTRNFQ-  -----nscthfPGn--PNMLRDLRDAFSRVK--TFf-QMKd--QLDNLKESLLdf-KGy--LGCQALSEMIQFYLEeVMPQAEHQDPDIKAHNSGENKTLRLRIRChrf-----LPCEN-K---SKAVEQVKNAFNKL-Q---E---KgIYKAMSEFDIFINIEAYMTKIrn-----</p>
31	<p>1vjqa (73)</p> <hr/> <p>2i9sA (97)</p>	C	9.59	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.39 (Å)  -----KTIFVIVPT-N---EeQV-AFLEALAKQ-D--ELNFDWqNPPTePGqPVVILI-PSD-VEWFLE-KAK--GIPFIVYVEeggs-----  gpgkpesilkmtkkgkTLMMFVTVsgnptek-ETeEITSLWQGSIFnaNYDVQR-FIVG-SD-RAIFMLrDGSyAWEIKDFVVSQdrCAEVILEGQ----mypgk</p> <p><b>SARST:</b> aliSize=35 (resi) RMSD=4.22 (Å)  ktifviviptneeqvaflealakqdelnfdwqnp-----EPEQPVVILIP-----SDVEWFLELAKAGIPFTVYVEE-----gs  -----gpgkpesilkmtkkgkTLMMFVTVsgnpteketeEITSLWQGSIFnaNYDVQRFIVsdraifmlrdgsyaweikdfivsqrcaevtleqmypgk--</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=7.04% (5/73) simi=8.45% (6/73)  ktifviviptneeqvaflealakqdelnfdwqnppte-PEQPVVILIP-----SDVEWFLELAKAGIPFTVYVEE-----ipsdvewflelkaagipftvyveeggs  -----gpgkpesilkmtkkgkTLMMFVTVsgnpteketeEITSLWQGSIFnaNYDVQRFIVsdraifmlrdgsyaweikdfivsqrcaevtleqmypgk-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.55 (Å)  -----N-TIFVIVPT-N---EeQVAFLEALAKQ-D-ELNFDWqNPPTePGQPVVILIPSDMVEWFLEMKAK--GIPFIVYVEEG-ES  gpgkpesilkmtkkgkTLMMFVTVsgnptekETEITSLWQGSIFnaNYDVQR-FIVGSDRAIFMLRDSYAWWEIKDFVVSQdrCAEVILEGQMYpgk</p>
32	<p>2d8dA (80)</p> <hr/> <p>2gtvX (104)</p>	N	11.25	<p><b>TM-align:</b> aliSize=65 (resi) RMSD=1.86 (Å)  eriqalrk-----EVdrVNreILrILSERGRIVQEIIGRLQTELGLPHYDPKREEEMLAYLTAEN--PGPFpDETIRKLFKEIFKASL-----  -----mieklAEIRKKIDEIDNKIkarwpwaeLIAERNSLAKDVAEIKNQLGIPINDFEREKYIYDRIRKLCkEhNVD-ENIGIKIFORLIEHNKAlqkyleetleh</p> <p><b>SARST:</b> aliSize=73 (resi) RMSD=9.32 (Å)  eriqal---RKEVDVNRREIRLL-----SERGRIVQEIIGRLQTELGLPHYDPKREEEMLAYLTAENPGPFpDETIRKLFKEIFKAS-----l  -----mieklAEIRKKIDEIDNKIkarwpwaeLIAERNSLAKDVAEIKNQLGIPINDFEREKYIYDRIRKLCkEhNVDENIGIKIFORLIEHNKAlqkyleetleh</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=30.00% (24/80) simi=63.75% (51/80)  --RIQALRKEVDRVNRREIR-----LLSERGRIVQEIIGRLQTELGLPHYDPKREE---EMLAYLTAENPGPFpDETIRKLFKEIFKAS-----asl  mieklAEIRKKIDEIDNKIkarwpwaeLIAERNSLAKDVAEIKNQLGIPINDFEREKYIYDRIRKLCkEhNVDENIGIKIFORLIEHNKAlqkyleetleh---</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.28 (Å)  --RIQALRKEVDRVNRREIR-----LRLLSERGRIVQEIIGRLQTELGLPHYDpkREEMLAYLTAEN--PG-----P--FPDETIRKLFKEIFKASL-----  mieklAEIRKKIDEIDNKIkarwpwaeLIAERNSLAKDVAEIKN-QL----GIPIN---DFEREKYIYDRIRKLCkEhNVDENIGIKIFORLIEHNKALQKqyleetleh</p>

33	<p>2d8dA (80)</p> <hr/> <p>1q6aA (107)</p>	N	11.25	<p><b>TM-align:</b> aliSize=61 (resi)      RMSD=2.40 (Å)  eriqalrkevdr-----VNREiLRLLSERGRVQVEIGRLQTeIgLPHYD-PKREEMLAYLTAEN--PpPDeTIRKLFKEIFKASL-----  -----amarmspadkrklldelrsiyrtivleyfntdakvNERIDFVSKAFFAD---ISVSOvLEIHVELMDTFSKQLKIEIR-SE-DILLDYRLTLIDVIAhlcemyrrsiprev</p> <p><b>SARST:</b>      aliSize=59 (resi)      RMSD=11.11 (Å)  er-----IQALRKVDRVNRE-----ILRLLSERGRVQVEIGRLQTELPLP---HYDPKREEMLAY----LTAENIG--pfpdetirklfkeifkasl  --amarmspadkrklldelrsiyrtivleyfntdakvNERIDFVSKAFFADsVSOVLEIHVELMDTFSKQLKIEIRSEdILLDYRLTLIDVIAhlcemyRRSIRRev-----</p> <p><b>BLAST:</b>      aliSize=0 (resi)      iden=0.00% (0/80)      simi=0.00% (0/80)  eriqalrkevdrvnreilrllsergrlvqeigrqltelglphypkreeemlayltaenpgpfpdetirklfkeifkasl-----  -----amarmspadkrklldelrsiyrtivleyfntdakvneridefvskaffadisvsqvleihvelmdtfskqlklegrsedilldyrltlidviahlcemyrrsiprev</p> <p><b>Proposed:</b> aliSize=75 (resi)      RMSD=1.73 (Å)  -----ERIQALRKVDRVNREILRLL-----SERGRVQVEIGRLQTeIgLPHYD-PKREEMLAYLTAEN--PpPDeTIRKLFKEIFKASL-----  amarmsPADKRKLLDRLSYRTIVLEYfntdakvNERIDFVSKAFFAD---ISVSOvLEIHVELMDTFSKQLKIEIR-SE-DILLDYRLTLIDVIAhlcemyrrsiprev</p>
34	<p>2c5jA (82)</p> <hr/> <p>2c5iT (94)</p>	C	62.20	<p><b>TM-align:</b> aliSize=56 (resi)      RMSD=2.82 (Å)  DPFQVVKDTKEQLNRINNYITRHNTa---EEEIQDILKDVVEETIVDLDRSIVMKRDENEDVSGREAQVKNIKQQLDALKLRF-----  DPFQVVKDTKEQLNRINNYITRHNTI-agdDDQEEIQQDILKDVVEETIVDLDRSIVKRD-----enedvsgreaqvknikqldalklrfdrriquest</p> <p><b>SARST:</b>      aliSize=80 (resi)      RMSD=22.65 (Å)  d--PFQVVKDTKEQLNRINNYITRHNTA---TAEIIIQDILKDVVEETIVDLDRSIVMKRDE-----NEDVSGREAQVKNIKQQLDALKLRF-----d  -dPFQVVKDTKEQLNRINNYITRHNTaGDDQEEIQQDILKDVVEETIVDLDRSIVKRDenedVSGREAQVKNIKQQLDALKLRFDRRIquest-</p> <p><b>BLAST:</b>      aliSize=81 (resi)      iden=98.78% (81/82)      simi=98.78% (81/82)  DPFQVVKDTKEQLNRINNYITRHNTA-----EEEIQDILKDVVEETIVDLDRSIVMKRDENEDVSGREAQVKNIKQQLDALKLRF-----  DPFQVVKDTKEQLNRINNYITRHNTAgdddqEEEIQDILKDVVEETIVDLDRSIVKRDENEDVSGREAQVKNIKQQLDALKLRFdrriquest</p> <p><b>Proposed:</b> aliSize=81 (resi)      RMSD=0.89 (Å)  DPFQVVKDTKEQLNRINNYITRHNTa-----EEEIQDILKDVVEETIVDLDRSIVMK-----RDENEDVSGREAQVKNIKQQLDALKLRF--  DPFQVVKDTKEQLNRINNYITRHNT-TagdddqEEEIQDILKDVVEETIVDLDRSIVMKrdeneVSGREAQVKNIKQQLDALKLRFDRRIQEst</p>
35	<p>2c5jA (82)</p> <hr/> <p>1lvfA (106)</p>	C	15.85	<p><b>TM-align:</b> aliSize=63 (resi)      RMSD=2.50 (Å)  -----DPFQVVKDTKEQLNRINNYIT--RHNTa---EEEIQDILKDVVEETIVDLDRSIVMKRDENEDVSGREAQVKNIKQQLDALKLRF-----  edpffvkvGKVAVNTAAGLQFQWTELLQgpSAA--tREEIDWTTNELRNLRSEWDLDELDETISIVEANPR-K-----fnldatelsirkafitstrqivrmdkqmsas</p> <p><b>SARST:</b>      aliSize=80 (resi)      RMSD=20.77 (Å)  d-----PFQVVKDTKEQLNRINNYITRHNTA---TAEIIIQDILKDVVEETIVDLDRSIVMKRDENE-----DVSGREAQVKNIKQQLDALKLRF--d  -edpffvkvGKVAVNTAAGLQFQWTELLQgpSaAtREEIDWTTNELRNLRSEWDLDELDETISIVEANprkfnldateLSIRKAFITSTRQIVRDMKDQMSas-</p> <p><b>BLAST:</b>      aliSize=35 (resi)      iden=25.61% (21/82)      simi=42.68% (35/82)  --DPFQVVKDTKEQLNRINNYITRHNTA---TAEIIIQDILKDVVEETIVDLDRSIVMKRDENEDVSGREAQVKNIKQQLDALKLRF-----rfd  eDPFFVVKGEVOKAVNTAAGLQFQWTELLQGPSAATREEIDWTTNELRNLRSEWDLDELDETISIVEANPR--KFNLDATELsirkafitstrqivrmdkqmsas---</p> <p><b>Proposed:</b> aliSize=82 (resi)      RMSD=1.74 (Å)  --DPFQVVKDTKEQLNRINNYITRHNTA-----EEEIQDILKDVVEETIVDLDRSIVMK-----RDENEDVSGREAQVKNIKQQLDALKLRF--  eDPFFVVKGEVOKAVNTAAGLQFQWTELLQgpSaAtreeidwtTNELRNLRSEWDLDELDETISIVEANprkfnldATELSIRKAFITSTRQIVRDMKDQMSAS</p>

36	<p>2c5jA (82)</p> <hr/> <p>2jmhA (117)</p>	C	7.32	<p><b>TM-align:</b> aliSize=55 (resi) RMSD=2.29 (Å)  -----DP-FQQVVKDTKEQLNRINNYITRHNTa----EEEIQDILKDVEETIVDLDRSIIVM-KrDeneDvsgraeqvknkqldalklrfd  qehkpkddfrnefdhllieqanhaiekgehqllylqhqldeInenkskelqekiireldvvcamiegaGALERELKRTDL--niLeRFNYEAQTLISKILLKDLKETEOKVkd-IQ--TQ-----</p> <p><b>SARST:</b> aliSize=80 (resi) RMSD=18.52 (Å)  d-----PFQV---VDTKEQLNRINNYITRHNTAEEI---QDILKDVEETIVDLDRSIIVMKRDENED---VSGREAQVKNIKQQLDALKLRF-----d  -qehkpkddfrnefdhllieqanhaiekGEHQLLYLOHQLDELNENKSKLEKEKIIRELDVVCAMIEGAQGALERELKRTdInLERFNYEAQTLISKILLKDLKeteqvkdiqtq-</p> <p><b>BLAST:</b> aliSize=19 (resi) iden=13.41% (11/82) simi=23.17% (19/82)  dpfqvkvdt-----KEQLNRIN-NYITRHNTAEEIQD--ILKDVEETI-----ivldrsiivmkrdenedvsgraeqvknkqldalklrfd  -----qehkpkddfrnefdhllieqanhaiekgehqllylqhqldeInenkskelqekiireldvvcamiegaqgaLERELKRTDINLERFNYEAQTLISKILLKDLKETEteqvkdiqtq-----</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=1.75 (Å)  -----DPFQQVVKDTKEQLNRINNYITrhntaeEEIQDILKDVEETIV-DLDRSIIVMKRDENEDVS-----GREAQVKNIKQQLDALKLRFD-----  qehkpkddfrnefdhllieqanhaiekGEHQLLYLOHQLDELNENK-----SKLEQEKIIRELDVVCAMIEGAQGALERELKRTdInilerfnyEAQTLISKILLKDLKETEOKVkdigtq</p>
37	<p>2c5jA (82)</p> <hr/> <p>1hx1B (112)</p>	C	4.88	<p><b>TM-align:</b> aliSize=43 (resi) RMSD=1.98 (Å)  dpfqvkvdtkeqlnrinnyitrhntaeEiqDILKDVEETIVDLDRSIIVMKRDENEDVSGREAQVKNIKQQLDALKLRF-----  -----G--NSPOEEVILKCLKHLEKSVKIDADOLEELNKLGTGIQGG--FLP-----kdlqaealcldrrvkatieqfmkileeidTliipenfksrkrkglvkvqaflaecdteqnicqe</p> <p><b>SARST:</b> aliSize=77 (resi) RMSD=18.87 (Å)  d-----PFQVVKDTKEQLNRINNYITRHNTAEEI---QDILKDVEETIVDLDRSIIVMK-----RDENEDVSGREAQVKNIKQQLDALK-----lrfd  -gnspqeevelkklkhLEKSVKIDADOLEELNKLGTGIQggfLpklQAEALCKIDRRVKATIEQFMKILEEIdTliipenfksrLKRKGLVKKVQAFLAECdtveqnicqe---</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=14.63% (12/82) simi=25.61% (21/82)  dpfqv-----VKDTKEQ---NRINNYITRHNTAEEI---QDILKDVEETIVDL-----rsiivmkrdenedvsgraeqvknkqldalklrfd  -----gnspqeevelkklkhleksvekiadqleelnkelgtiqggfLpklqaealcldrrvKATIEQfmiLEEIDTLIPENFKDSRLkrKGLVKKVQAFLAECdtveqnicqe-----</p> <p><b>Proposed:</b> aliSize=76 (resi) RMSD=1.70 (Å)  -----DPFQQVVKDTKEQLNRINNYITrh-ntaE-EEIQDILKDVEETIVDLDRSIIVMKRDENE-----DVSREAQVKNIKQQLDALKLRFD-----  gnspqeevelkklkhleksvEKIADOLEELNKLGTGIQGG---F1---PkDLQAEALCKIDRRVKATIEQFMKILEEIDTliipenfksrLKRKGLVKKVQAFLAECdtveqnicqe</p>
38	<p>1wz3A (84)</p> <hr/> <p>1gnuA (117)</p>	C	17.86	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=2.19 (Å)  -----OKIVHLRAT--GG-APIKQSKFKVSGSKDFANVIDFLRRQLHS-D--SLFVYVNSAfsnpndesvidlynnfgdglvnyacsm-----AW-----  mkfvvykeehpfekrrsegekirrkypDRVPVIVEKAPKArIGDIDKKKYLMPSDLTVGQFYFLIRKRILrAedALFFVNNV-----ipptsatmglyqehhEEdfflyiaysdesvygl</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=13.64 (Å)  q-----KIVHLRATGG--PIKQSKFKVSGSKDFANVIDFLRRQLSDSLFVYVNSA--FSNPDESVIDLYNNFGFD-GKIVVNIACSM----aw  -mkfvvykeehpfekrrsegekirrkypdrVPVIVEKAPKArIGDIDKKKYLMPSDLTVGQFYFLIRKRILRAEDALFFVNNVVIPTSATMGQLYQEHHEdFFLYIAYSDESvygl--</p> <p><b>BLAST:</b> aliSize=28 (resi) iden=19.05% (16/84) simi=33.33% (28/84)  qkivvhlratgga-----KIVHLRATGG--PIKQSKFKVSGSKDFANVIDFLRRQLSDSLFVYVNSA--FSNPDESVIDLYNNFGFD-GKIVVNIACSM----aw  -----mkfvvykeehpfekrrsegekirrkypdrVPVIVEKAPKArIGDIDKKKYLMPSDLTVGQFYFLIRKRILRAEDALFFVNNVVIPTSATMGQLYQEHHEdFFLYIAYSDESvygl-----</p> <p><b>Proposed:</b> aliSize=82 (resi) RMSD=1.60 (Å)  -----OKIVHLRAT--GGAPIKQSKFKVSGSKDFANVIDFLRRQLHS-D--SLFVYVNSAfsnpndesvidlynnfgdglvnyacsmaw  mkfvvykeehpfekrrsegekirrkypDRVPVIVEKAPKArIGDIDKKKYLMPSDLTVGQFYFLIRKRILRAedALFFVNNVVIPTSATMGQLYQEHHEdFFLYIAYSDESvygl--</p>

39	1wz3A (84)	C	17.86	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=2.15 (Å)  -----OKIVHLRAT--GGAPILKQSKFKVSGSDKFNVIDFLRRQL-HSD--SLFVYVNSAfsnpndesvidlynnfgdglvnyacsm-----AW-----  mkwmfkedhslhrcvesakirakypDRVPIVEKVSgSQIVDIDKRYLPSDITVQFMWIRKRIqLPSekAIFLFDKTI-----vpqsslmgqlyekekeDEdglfylvaysgentfg</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=12.35 (Å)  q-----KIVHLRATGGA--PIIKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSA--FSPNPDESVIDLYNNFGF--DGKLVVNYA-----csmaw  -mkwmfkedhslhrcvesakirakypdRVPPIVEKVSgSQIVDIDKRYLPSDITVQFMWIRKRIQLPEKAIIFLFDKTI--VQSSSLTMGQLYEKEKDeXGFLYAYSgentfg-----</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=23.81% (20/84) simi=46.43% (39/84)  q-----KIVHLRATGGA--PIIKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgdglvnyacsm-----csmaw  -mkwmfkedhslhrcvesakirakypdRVPPIVEKVSgSQIVDIDKRYLPSDITVQFMWIRKRIQLPEKAIIFLFDKTI--VQSSSLTMGQLYEKEKDeXGFLYAYSgentfg-----</p> <p><b>Proposed:</b> aliSize=80 (resi) RMSD=1.46 (Å)  -----OKIVHLRAT--GGAPILKQSKFKVSGSDKFNVIDFLRRQL-HSD--SLFVYVNSAFSPNPDESVIDLYNNFGF--DGKLVVNYAC-S---maw  mkwmfkedhslhrcvesakirakypDRVPIVEKVSgSQIVDIDKRYLPSDITVQFMWIRKRIqLPSekAIFLFDKTI--VQSSSLTMGQLYEKEKDeXGFLYAYSgentfg---</p>
40	1wz3A (84)	C	21.43	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=2.02 (Å)  -----OKIVHLRAT--GGAPILKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgdglvnyacsm-----AW-----  gfqykedhpfeyrkegekirkkypDRVPIVEKAPKARVVDIDKRYLPSDLTVGQFYFLIRKRIHLrPeDALFFVNNNT-----ipptsatmgqlyednhEEdyflyvaysd</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=12.25 (Å)  q-----KIVHLRATGGA--PIIKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSA--FSPNPDESVIDLYNNFGF--DGKLVVNYA--csmaw  -gfqykedhpfeyrkegekirkkypdRVPPIVEKAPKARVVDIDKRYLPSDLTVGQFYFLIRKRIHLrPeDALFFVNNNTIPPTSATMGQLYEDNHEEYFLYAYSd-----</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=28.57% (24/84) simi=46.43% (39/84)  qkivvhlratgga-----PIIKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgdglvnyacsm-----csmaw  -----gfqykedhpfeyrkegekirkkypdrvpivekAPKARVVDIDKRYLPSDLTVGQFYFLIRKRIHLrPeDALFFVNNNTIPPTSATMGQLYEDNHEEYFLYAYSd-----</p> <p><b>Proposed:</b> aliSize=79 (resi) RMSD=1.35 (Å)  -----OKIVHLRAT--GGAPILKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGF--DGKLVVNYACsmaw  gfqykedhpfeyrkegekirkkypDRVPIVEKAPKARVVDIDKRYLPSDLTVGQFYFLIRKRIHLrPeDALFFVNNNTIPPTSATMGQLYEDNHEEYFLYAYSd-----</p>
41	1wz3A (84)	C	10.71	<p><b>TM-align:</b> aliSize=50 (resi) RMSD=2.42 (Å)  -----OKIVHLRATGGAPILKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV--NSAfsnpndesvidlynnfgdglvnyacsmaw-----  msggtaattagSKVTFKITLISDPKLP-FKVLSPPESTPTAVLKAFAEEFKVPaaTSAIITndgVG-----vnpaqpagniflkhgselrliipdrvgh</p> <p><b>SARST:</b> aliSize=72 (resi) RMSD=12.54 (Å)  qk-----IVHLRATGG---APIIKQSKFKVSGSDKFNVIDFLRRQLHSD--DSLFLVNSAFSPNPDESVIDLYNNFGFDGKLVVN-----yacsma  --msggtaattagSKVTFKITLISDPKLP-FKVLSPPESTPTAVLKAFAEEFKVPaaTSAIITNDGVGvnpaqpagniflkhgSELRLIPdrvgh-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/84) simi=0.00% (0/84)  qkivvhlratggapilkqskfkvsdskfanvidflrrqlhsdslfvynsafspndesvidlynnfgdglvnyacsmaw-----  -----msggtaattagskvtfkitlisdplkpfkvlsvpesptftavlkafaeefkvpaaTSAIITndgvgvnpaqpagniflkhgselrliipdrvgh</p> <p><b>Proposed:</b> aliSize=75 (resi) RMSD=2.31 (Å)  -----OKIVHLRATGGAPILKQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV--NSAFSPNPDESVIDLYNNFGFDGKLVVNYACS---Maw  msggtaattagSKVTFKITLISDPKLP-FKVLSPPESTPTAVLKAFAEEFKVPaaTSAIITndgvgvnpaqpagniflkhgSELRLIPdrvgh---</p>
	117yA (94)			

42	<p>1wz3A (84)</p> <hr/> <p>1lm8B (106)</p>	C	5.95	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.59 (Å)        QKIVVHLRATgGapILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgf-----Dgklvnyacsmaw-----        MDVFLMIRRH-K--TT--IFTDAKESSTVFELKRIVEGITKRPpDEQRLYKDDQ-----l1ddgkltlgecgftsqtarpqapatvglafrradtfealciE-----pfsppelpdvmkpq</p> <p><b>SARST:</b> aliSize=72 (resi) RMSD=13.27 (Å)        qki-VVHLRATGGAPILkqsKFKVSGSDKFANVIDFLRRQLHS--DSLFFVYVNSAFSPNPDESVIDL---YNNFGFDGKLVVNYA-----csmaw        ---mDVFMIIRRHKTTI---FTDAKESSTVFELKRIVEGITKRPpDEQRLYKDDQDQLLDGKtLgecgftsqtarpqapatvglafrradtfealci epfsppelpdvmkpq----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=7.14% (6/84) simi=9.52% (8/84)        qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdsvnsafspn-----PDESVIDLYNNFGFDGK-----lvnyacsmaw        -----mdvflmirrhkttiftdakesstvfelkrivegilkrpDEQRLYKDDQLLDGKtLgecgftsqtarpqapatvglafrradtfealci epfsppelpdvmkpq-----</p> <p><b>Proposed:</b> aliSize=75 (resi) RMSD=2.33 (Å)        QKIVVHLRAT-ggapILkqSKFKVSGSDKFANVIDFLRRQLHSD-SLFVYV-nSAFSPNPDESVIDL-YN--nfGFDG--KLVVNYA-C-----SMAW-----        MDVFLMIRRHk----TT--IFTDAKESSTVFELKRIVEGITKRPpDEQRLYk-DDQLLDGKTLGECgFTsq--TARPaPATVGLAFrradtfeALCi epfsppelpdvmkpq</p>
43	<p>1wz3A (84)</p> <hr/> <p>2io1B (81)</p>	C	6.17	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.29 (Å)        QKIVVHLRATgGAPILkqSKFKVSGSDKFANVIDFLRRQLHSD-S-LFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----        DHINLKVAGQ-D-GSV--VQFKIKRHTPLSKLMKAYCERQGLSmRqIRFRFDGQ-----pinetdtpaqlemedetidvqqqggvpe</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=12.83 (Å)        q-KIVVHLRATGgAPILkQSKFKVSGSDKFANVIDFLRRQLHS---DSLFFVYVNSAFSPNPDESVIDLYNNFGFDGKLVVNYA-----csmaw        -dHINLKVAGQDLS---VQFKIKRHTPLSKLMKAYCERQGLsmrQIRFRFDGQPIN--ETDT---PAQLEMEDEDTIDVFQqqtggvpe----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=4.94% (4/81) simi=7.41% (6/81)        qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdsvnsafspn-----DESVIDLY-----nnfgfdgklvnyacsmaw        -----dhinlkvagqdgsvvqfkikrhtplsklmkaycerqglsmrqirfrfdgqpinetdtpaqlemedetidvqqqggvpe-----</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.03 (Å)        QKIVVHLRATgGAPILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYnnFGfdGKLVVNYACSM-----aw        DHINLKVAGQ--DGSV--VQFKIKRHTPLSKLMKAYCERQGLSmrQIRFRFDGQPINETDTPAQI--EME--DEDTIDVFQqqtggvpe--</p>
44	<p>1wz3A (84)</p> <hr/> <p>2dziA (81)</p>	C	6.17	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.55 (Å)        q-----KIVVHLRATGGAPILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----        -gssgsSGMQLTVKALQGREC--SLQ-VPEDELVSTLKQLVSEKLNVPvRQRLLFKFKG-----aladgkrlsdysigpnsklnlvvpkl</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=12.76 (Å)        qk-----IVVHLRATGgAPILkqskFKVSGSDKFANVIDFLRRQLHS--DSLFFVYVNSAFSPNPDESVIDLYNNFGFDGKLVVNYA-----csmaw        --gssgsgMQLTVKALQGRECS---LQVPEDELVSTLKQLVSEKLNVPvRQRLLFK-GKALADGKR---SDYSIGPNSKLNLVVkpI-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/81) simi=0.00% (0/81)        qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdsvnsafspn-----gssgsgmqltvkalqgreclsqpedelvstlkqlvseklnvpvrqrrllfkGkaladgkrlsdysigpnsklnlvvpkl</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.24 (Å)        -----QKIVVHLRATgGAPILkqSKFKVSGSDKFANVIDFLRR-QLHS--DSLFFVYVNSAFSPNPDESVIDLYnnFGfdGKLVVNYACS--maw        gssgsSGMQLTVKAL-QG-RE--CSLQVPEDELVSTLKQLVSEKLNVPvRQRLLFK-GKALADGKRLSDY--SIC--PNSKLNLVVkpI----</p>

45	<p>1wz3A (84)</p> <hr/> <p>1wjuA (100)</p>	C	1.19	<p><b>TM-align:</b> aliSize=51 (resi) RMSD=2.73 (Å)  -----QKIVVHLRATgGAPILK-QSKFKVSGSDKFANVIDFLRR--QHSDFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  gssgsgsdnyrttGIATIEVFLP-PRLKKDrKNLETRLHITGRELRSKIAEtFGQENYIKIIVINKK-----qlqlgktleegvahnvkamvlelkqssgpgsg</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.92 (Å)  qk-----IVVHLRAT---GGAPILkqsKFKVSGSDKFANVIDFLRRQLHS-DSLFVYVNSAFSPNPDESVIDLynnFGFDGKLVVNYA-----csmaw  --gssgsgsdnyrttgiATIEVFLPPrIKKDRKN---LLETRLHITGRELRSKIAETFGLeNYIKIIVINKKQQLGKTLEEQ---GVAHNVKAMVLElkqssgpgsg----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=7.14% (6/84) simi=7.14% (6/84)  qkivvhlratggapi-----LKSQKFKVSGsdkfavidflrrqlhsdslfvvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw  -----gssgsgsdnyrttgiatievflpprkkdrknlletrlhitgrelrskiaetfglqenyikiviinkkqlqlgktleegvahnvkamvleLKQSSGPSG-----</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.20 (Å)  -----QKIVVHLRATgGAPILK--qSKFKVSGSDKFANVIDFLRR-QLHS-DSLFVYVNSAFSPNPDESVIDLynnFGfdGKLVVNYAC-----smaw  gssgsgsdnyrttGIATIEVFLP-PRLKKDrK-NLETRLHITGRELRSKIAEtFGLQeNYIKIIVIN-KKQQLGKTLEEQ--GVA--HNVKAMVLElkqssgpgsg----</p>
46	<p>1wz3A (84)</p> <hr/> <p>1wx7A (106)</p>	C	9.52	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.47 (Å)  -----QKIVVHLRATggApILkqSKFKVSGSDKFANVIDFLRRQLHSD-SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  gssgsgspapvqdpHLIKVTKTP--K-DK--EDFSYTDCTIQOLKEEISQRFKAHPDQLLIFAGK-----ilkdpds laqcgvr dgl tvhlvikr qhramgnecpasgpgsg</p> <p><b>SARST:</b> aliSize=74 (resi) RMSD=14.64 (Å)  qk-----IVVHLRATGGAPILkqskFKVSGSDKFANVIDFLRRQLHS-DSLFVYVNSAFSPNPDESVIDLynnNFGFDGKLVVNYACSM-----w  --gssgsgspapvqdpHLIKVTKTPKDKED---SFTDTCTIQOLKEEISQRFKAHPDQLLIFAGKILKDPDSLAAQ---CGVRDGLTIVHLVIKROHramgnecpasgpgsg-</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.76% (4/84) simi=10.71% (9/84)  qkivvhlratggapi lkqskfkvsgsdkfavidflrrqlhsdslfvvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw  -----gssgsgspapvqdpHLIKVTKTPKDKEDfsvtdtctiqllkeeISQRFKAHPDQLLIFAGKILKDPDSLAAQ---GVR--DGLTIVHLVIKROHramgnecpasgpgsg-----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.15 (Å)  -----QKIVVHLRATggApILkqSKFKVSGSDKFANVIDFLRRQLHSD-SLFVYVNSAFSPNPDESVIDLynnNFGfdGKLVVNYA-C-----smaw  gssgsgspapvqdpHLIKVTKTP--K-DK--EDFSYTDCTIQOLKEEISQRFKAHPDQLLIFAGKILKDPDSLAAQ---GVR--DGLTIVHLVIKROHramgnecpasgpgsg----</p>
47	<p>1wz3A (84)</p> <hr/> <p>1se9A (101)</p>	C	4.76	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.65 (Å)  -----QKIVVHLRATgGAPILkqSKFKVSGSDKFANVIDFLRRQL-H-----SD--SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  eaevhnQLEIKFRLLDSDIG--GPKAFPDATTVSALKETVISEWpRekengpKTVkEVKLISAGK-----vlensktvkdyrspvsnlagavtmhvi iqapvtekek</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.30 (Å)  qk-----IVVHLRATGGAPILkqskFKVSGSDKFANVIDFLRRQL-----HSDSL--FVYVNSAFSPNPDESVIDLynnNFGFDGKLVVNYA-----csmaw  --eaevhnQLEIKFRLLDSDIG--GPKAFPDATTVSALKETVISEWpRekengpKTVkEVKLISAGKVLNSKT---VKDYRSPVSNLAGAVTtmhvi iqapvtekek----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/84) simi=0.00% (0/84)  qkivvhlratggapi lkqskfkvsgsdkfavidflrrqlhsdslfvvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw-----  -----eaevhnqleikfrlldgsdigpkafpdattvsalketvisewprekengpKTVkEVKLISAGKVLNSKT---VKDYRSPVSNLAGAVTtmhvi iqapvtekek</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=1.93 (Å)  q-----KIVVHLRATgGAPILkqSKFKVSGSDKFANVIDFLRRQL-H-----SD--SLFVYVNSAFSPNPDESVIDLynnNFGfdGKLVVNYACS-----maw  --eaevhnQLEIKFRLLDSDIG--GPKAFPDATTVSALKETVISEWpRekengpKTVkEVKLISAGKVLNSKT---VKDYRSPVSNLAGAVTtmhvi iqapvtekek---</p>



48	1wz3A (84)	C	9.52	<p><b>TM-align:</b> aliSize=47 (resi) RMSD=1.96 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSDKFANVIDFLRROLHS-DSLFVYV-NSAFspnpdesvidlynnfgdgklvnyacsmaw-----  gssgssgtatnhqglpavdseilempekadgvvegidvngpKAQLMLRY---PDgKR--EQITLPEQAKLLALVKHVQSKGYPhERFELLTnFPR-----rk1shldyditlqeaglcqpetvfvqesgpsg</p> <p><b>SARST:</b> aliSize=48 (resi) RMSD=3.67 (Å)  q-----IVVHLRATGAPILkqskFKVSGSDKFANVIDFLRROLHS-DSLFVYVNSAFspN-----pdesvidlynnfgdgklvnyacsmaw  -gssgssgtatnhqglpavdseilempekadgvvegidvngpKAQLMLRYPDKREQ---ITLPEQAKLLALVKHVQSKGYPhERFELLTnFP---Rrk1shldyditlqeaglcqpetvfvqesgpsg-----</p> <p><b>BLAST:</b> aliSize=15 (resi) iden=8.33% (7/84) simi=17.86% (15/84)  qkivvhlratggapilkqskfkvsgsdkfانvidflrrqlhs-----DSLFVYVnsAFSPNPDESVIDLYNNFDFGKLVVNY-----acsmaw  -----gssgssgtatnhqglpavdSEIL---EMPPEKADGVVEGIDVNPKAQLMLRtpdgkreqitlpeqakllalvkhvqskgypnerfelltnfprrk1shldyditlqeaglcqpetvfvqesgpsg-----</p> <p><b>Proposed:</b> aliSize=74 (resi) RMSD=2.41 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSDKFANVIDFLRROLHS-DSLFVYV-NSAF-S-PNPDESVIDLynNFGfdGKLVVNYACSM-----aw  gssgssgtatnhqglpavdseilempekadgvvegidvngpKAQLMLRY---PDGKR--EQITLPEQAKLLALVKHVQSKGYPhERFELLTnFPRRK1ShLDYITLQEA--GLC--POETVFOESGpsg--</p>
49	1wz3A (84)	C	5.95	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.65 (Å)  -----Q-KIVVHLRATgGapILkqSKFKVSGSDKFANVIDFLRROLHSD-SLFVYVNSAFspnpdesvidlynnfgdgklvnyacsmaw-----  sglvprgsPhLkVTVKTP-K--DK--EDFSVTDICTIQOLKEEISORFKAHPDQLVLIIFAGK-----ilkdpds laqcgvrldgtvhlvikrqhram</p> <p><b>SARST:</b> aliSize=70 (resi) RMSD=12.46 (Å)  qk-----IVVHLRATGGAPILkqskFKVSGSDKFANVIDFLRROLHSD-DSLFVYVNSAFSPNPDESVIDLYNNFGFDGKLVVNYA-----csmaw  --sglvprgsphLIKVTVKTPKDKED---SFSVTDICTIQOLKEEISORFKAHPDQLVLIIFAGKILKDPDS---LAQCGVRDLTHLVIKrqhram-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.76% (4/84) simi=10.71% (9/84)  qkivvhlratggapilkqskfkvsgsdkfانvidflrrqlhsdslfvy-----NSAFSPNPDESVIDLYNNFGFDGKLVVNYACSM-----dlynnfgdgklvnyacsmaw  -----sglvprgsphlikvtvktpkdkedfsvtdictiqolkeelSQRFKAHDPDQLVLIifagiilkdpds laqcgvrldgtvhlvikrqhram-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.34 (Å)  -----QKIVVHLRATGGAPILkqSKFKVSGSDKFANVIDFLRROLHSD-SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYACSM-----maw  sglvprgsPhLIKVTVKTPK-DKE--DFSVT-DICTIQOLKEEISORFKAHPDQLVLIIFAGKILKDPDSLAAQC--GVR--DGLTHLVIKrqhram---</p>
50	1wz3A (84)	C	10.13	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.40 (Å)  --QKIVVHLRATggaPILkqSKFKVSGSDKFANVIDFLRROLHSD--SLFVYVNSAFspnpdesvidlynnfgdgklvnyacsmaw-----W-----  peTHINLKVSDG---SSE--IFFKIKKTTPLRRLMEAFKRQKEmdSLRFLYDGI-----riqadqtpedldmEdndieahreqigg</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=12.31 (Å)  qkiv---VHLRATGAPILkqskFKVSGSDKFANVIDFLRROLHSD-DSLFVYVNSAFSPNPDESVIDLYNNFGFDGKLVVNYA-----acsmaw  ----pethINLKVSDG---SSE--IFFKIKKTTPLRRLMEAFKRQKEmdSLRFLYDGIIRIQADQTPEDL---LDME--DNDIEAHreqigg-----</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=18.99% (15/79) simi=37.97% (30/79)  qkiv---VHLRATGapiLKQSKFKVSGSDKFANVIDFLRROLHSDSLFVYVnsAFSPNPDESVIDLYNNFGFDGKLVVNYACSM-----yynnfgdgklvnyacsmaw  ----pethINLKVSDG---SSE--IFFKIKKTTPLRRLMEAFKRQKEmdSLRFLYDGIIRIQADQTPEDLdmedndieahreqigg-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=1.94 (Å)  --QKIVVHLRATggaPILkqSKFKVSGSDKFANVIDFLRROLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGfdGKLVVNYACSM-----aw  peTHINLKVSDG---SSE--IFFKIKKTTPLRRLMEAFKRQKEmdSLRFLYDGIIRIQADQTPEDL---DME--DNDIEAHREQigg--</p>
	leuvB (79)			

51	1wz3A (84)	C	3.57	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.48 (Å)  -----QKIVVHLRATgGApILkqSKFKVSGSDKfANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  gssgsSGIQVFKVKNP-DG-GS--YAYAINPNSFILGLKQOIEDQGLPKKQQQLEFCG-----qvlqdwlggiygiqdsdtlilskkkgsgpssg</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=12.16 (Å)  q-----KIVVHLRATGGAPILkqsKFKVSGSDKfANVIDFLRRQLHS--DSLFVYVNSAFSPNPDESVIDlyNNFGFDG--KLVVN-----yacsma  -gssgsSGIQVFKVKNPDGGSY--AYAINPNSFILGLKQOIEDQGLPKKQQQLEFCG-QVLDWLGLG---IYGIQSDTLILSKkkgsgpssg-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=4.76% (4/84) simi=8.33% (7/84)  qkivvhlratggapilkqskfkvsgsdkfavidflrrqlh-----SDSLFVYVNSAFSPN--pdesvidlynnfgfdgklvnyacsmaw  -----gssgsgsiqvfknpdggsyayainpnsfilglkqiiedqgglpkqqlefqgqvlqdwlggiygiqdsdtlilskkkgsgpssg-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.31 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSDKfANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYAC-S-----maw  gssgsSGIQVFKVKNP--DGGs--YAYAINPNSFILGLKQOIEDQGLPKKQQQLEFCG-QVLDWLGLGIY--GIQ--DSDTLILSKkkgsgpssg---</p>
52	1wz3A (84)	C	10.96	<p><b>TM-align:</b> aliSize=47 (resi) RMSD=2.64 (Å)  qKiVVHLRATGGAPILkqSKFKVSGSDKfANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -M-IEVVNDRLGKKV--RVK-CLAEISVGDfKkVLSLIGTQpnKIVLQKGS-----vldkhisledyevhdqtnlelyyl</p> <p><b>SARST:</b> aliSize=57 (resi) RMSD=13.89 (Å)  qkivvhlratggapilkqs-----KFKVSGSDKfANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLynNFGFDGKLVVNYAC-csmaw  -----mi evvndrlgkkvrvkclaeisvgdffkvlsligtqpnkivlqkgsvlkdhisledyevhdqtnlelyyl-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/73) simi=0.00% (0/73)  qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdlsfvyvnsaafspndesvidlynnfgfdgklvnyacsmaw-----  -----mi evvndrlgkkvrvkclaeisvgdffkvlsligtqpnkivlqkgsvlkdhisledyevhdqtnlelyyl-----</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=2.41 (Å)  qKIVVHLRATGgAPILkqSKFKVSGSDKfANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYAC-smaw  -M-IEVVNDRLG--KKV--RVK-CLAEISVGDfKkVLSLIGTQpnKIVLQKGS-SVLKDHISLEIY--EVH--DOTNLELYYI-----</p>
53	1wz3A (84)	C	11.90	<p><b>TM-align:</b> aliSize=47 (resi) RMSD=2.74 (Å)  -----QKIVVHLR-ATgGap--IILKQSKFKVSGSDKfANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  gplgsmSKVSKFITLTS-D--prL-PYKVLSPPEPTPTAVLKFAAEEFKVPAATSAIITndGI-----ginpaqtagnvflkhgselriipdrvg</p> <p><b>SARST:</b> aliSize=70 (resi) RMSD=11.95 (Å)  q-----KIVVHLRATGGA---IILkqsKFKVSGSDKfANVIDFLRRQLHSDSLFVYVNS--AFSPNPDESVIDLYNNFGfdGKLVV-----nyacsma  -gplgsmSKVSKFITLTSdprL-PYK--VLSVPEPTPTAVLKFAAEEFKVPAATSAIITndGIGINFAQTAGNVFLKH--GSEIRIipdrvg-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/84) simi=0.00% (0/84)  qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdlsfvyvnsaafspndesvidlynnfgfdgklvnyacsmaw-----  -----gplgsmkvsfkilttsdprlpykvlsvpestpftavlkfaaefkvpaaatsaiitndgiginfaqtagnvflkhgselriipdrvg-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.30 (Å)  -----QKIVVHLRATggaPI---IILKQSKFKVSGSDKfANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGfdgKLVVNYACS----maw  gplgsmSKVSKFITL----TSdprL-PYKVLSPPEPTPTAVLKFAAEEFKVPAATSAIITndGIGINFAQTAGNVFLKH-----SELRIPDRvg---</p>
	1wx3A (88)			

54	1wz3A (84)	C	9.88	<p><b>TM-align:</b> aliSize=47 (resi) RMSD=2.98 (Å)  qKiVVHLRATG-----Ap-ILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -M-QIFVKLTlTgggggG-gKT--ITLEVEPSDTIENVKAKIQDKEGIPpdQQRILFAGK-----qledgrtIsdyniqkestlhlvlrl</p> <p><b>SARST:</b> aliSize=42 (resi) RMSD=7.20 (Å)  qkivvhlrat-----GGAPILkqsKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -----mqifvktltgggggGGGKTI--TLEVEPSDTIENVKAKIQDKEGIPpdQQRILFAGK-----AGQLEdgrtIsdyniqkestlhlvlrl-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=9.88% (8/81) simi=11.11% (9/81)  qkivvhlrat-----GGAPILKQSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -----mqifvktltggggGGGGGTTITLEVEPSDTIENVKAKIQDKEGIPpdqqrliFAGKqledgrtIsdyniqkestlhlvlrl-----</p> <p><b>Proposed:</b> aliSize=69 (resi) RMSD=2.34 (Å)  qKiVVHLRATG-----apILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYAC--smaw  -M-QIFVKLTlTggggggg--KT--ITLEVEPSDTIENVKAKIQDKEGIPpdQQRILFAGKQLEDGRTLSY--NIQ--KESTLHLVLRl----</p>
55	1wz3A (84)	C	5.95	<p><b>TM-align:</b> aliSize=50 (resi) RMSD=2.85 (Å)  -----Q-KIVVHLRATGGA-PILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  gssgsgkfdesalvpedqflaqhPgPATIRVSKPNEndGQF--MEITVqSLSENVGSLKEKIAGEIQIPankQKLSGKAG-----fIkdnmSlahynvgageiltlslrersgpgsg</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=13.34 (Å)  q-----KIVVHLRATGG-----APILKQSKfkvsGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGFDKLVVNYA-----csmaw  -gssgsgkfdesalvpedqflaqhPgPATIRVSKPNEndqfmEITVQSL-----SENVGSLKEKIAGEIQIPankQKLSGK-AGFLKDNMSLAH--YNVGAEILTLslrersgpgsg-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=7.14% (6/84) simi=8.33% (7/84)  qkivvhlrat-----GGAPILKQSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -----gssgsgkfdesalvpedqflaqhpgpatirvskpnendqfmEITVqslsenvgslkekiageiqipankqklsGAGfIkdnmSlahynvGAEILTLslrersgpgsg-----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.09 (Å)  -----Q-KIVVHLRATGG---apILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYAC--S-----maw  gssgsgkfdesalvpedqflaqhPgPATIRVSKPNEndg--QF--MEITVqSLSENVGSLKEKIAGEIQIPankQKLSGKA-GFLKDNMSLAHY--Vg--AGEILTLslrersgpgsg---</p>
56	1wz3A (84)	C	9.52	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.46 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  gpgyidtnndgwiegedelyidtnndgwiegedellAMQIFVKLT--TGKT--ITLEVEPSDTIENVKAKIQDKEGIPpdQQRILFAGK-----qledgrtIsdyniqkestlhlvlrlrg</p> <p><b>SARST:</b> aliSize=50 (resi) RMSD=8.66 (Å)  qk-----IVVHLRATGGAPILkqsKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSP-----npdesvidlynnfgfdgklvnyacsmaw  --gpgyidtnndgwiegedelyidtnndgwiegedellAMQIFVKLTGKTI--TLEVEPSDTIENVKAKIQDKEGIPpdqqrliFAGKqledgrtIsdyniqkestlhlvlrlrg-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=7.14% (6/84) simi=8.33% (7/84)  qkivvhlratggapil-----KQSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYAC--maw  -----gpgyidtnndgwiegedelyidtnndgwiegedellamqifvktltgTTITLEVEPSDTIENVKAKIQDKEGIPpdqqrliFAGKqledgrtIsdyniqkestlhlvlrlrg-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.31 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynNFGfdGKLVVNYAC--maw  gpgyidtnndgwiegedelyidtnndgwiegedellAMQIFVKLT--TGKT--ITLEVEPSDTIENVKAKIQDKEGIPpdQQRILFAGKQLEDGRTLSY--NIQ--KESTLHLVLRlrg---</p>
	2objA (81)			
	1we6A (111)			
	2ojrA (110)			

57	1wz3A (84)	C	8.33	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.03 (Å)  --QKIVVHLRATggPILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV-----NSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  mtEVDLEITIN--TDFP-MEKKYPAGMSLNDLKKKLELVVGTtvdSMRIQLfdgddqLKG-----eltdgaksldlgvrdgyrihavdvtggned</p> <p><b>SARST:</b> aliSize=72 (resi) RMSD=13.76 (Å)  q-KIVVHLRAT---GGAPILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV-----NSAFSPNPDESVIDlynnNFGFDGKLVVNYAC-----smaw  -mTEVDLEITIN--TDFP-MEKKYPAGMSLNDLKKKLELVVGTtvdSMRIQLfdgddQLKGEITDGAKSLK---LGVRDGYRIHAVDVTGgned----</p> <p><b>BLAST:</b> aliSize=5 (resi) iden=5.95% (5/84) simi=5.95% (5/84)  qkivvhlra-----TGAPILK-----qskfkvsgdkfanvidflrrqlhsdslfvynsafspnpdesvidlynnfgfdgklvnyacsmaw  -----mtevydleitnatdfpmekkypagmslndlkkklelvvgttvdsmriqlfdgddqkgeITDGAKSLKldlgvrdgyrihavdvtggned-----</p> <p><b>Proposed:</b> aliSize=76 (resi) RMSD=2.08 (Å)  --QKIVVHLRATggPILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV-----NSAFSPNPDESVIDlynnNFGFDGKLVVNYAC-----SMaW  mtEVDLEITIN--TDFP-MEKKYPAGMSLNDLKKKLELVVGTtvdSMRIQLfdgddqLKGELTDGAKSLKDL--GVRDG--YRIHAVDvtggNE-D</p>
58	1wz3A (84)	C	8.54	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.90 (Å)  qKiVHLRAT--GG--APILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV--NSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  -M-QIFVKTLtqVRelVGGKT-ITLEVEPSLTIENVKAKIQDKEGIPpDQORLIfaGK-----qledgrtldyniqkestlhlvlrlrg</p> <p><b>SARST:</b> aliSize=55 (resi) RMSD=13.41 (Å)  qkivvhlratggapilkqs-----KFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDlynnNFGFDGKLVVNY-----acsmaw  -----mqifvktltqvrelvggkITLEVEPSLTIENVKAKIQDKEGIPpDQORLIfaGKLEDRGRTLS---YNIQKESTLHLVlrlrg-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=7.32% (6/82) simi=8.54% (7/82)  qkivvhlratggapil-----KQSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDlynnNFGFDGKLVVNY-----idflrrqlhsdslfvynsafspnpdesvidlynnfgfdgklvnyacsmaw  -----mqifvktltqvrelvggKITLEVEPSLTIENVKAKIQDKEGIPpDQORLIfaGKLEDRGRTLS---YNIQKESTLHLVlrlrg-----</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=2.25 (Å)  qkIVVHLRAT--GG---aPILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDlynnNFGfdGKLVVNYAC-----smaw  --MQIFVKTLtqVRelvg-GKT--ITLEVEPSLTIENVKAKIQDKEGIPpDQORLIfaGKLEDRGRTLS---YNIQ--KESTLHLVlrlrg----</p>
59	1wz3A (84)	C	6.41	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.57 (Å)  ----QKIVVHLRATgGAPILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  tetsQLQLRVOGK-EKHQT--LEVSLSRDSPLKTLMSHYEEaMGLsGRKLSFFDGT-----klsgrelpadlgmesgdliewvg</p> <p><b>SARST:</b> aliSize=56 (resi) RMSD=13.07 (Å)  qkivvhlratggapilk-----QSKFKVSGSDKFNVIDFLRRQLHSDSLFVYVNSAF--SPNP-DVidLYnnNFGFDGKLVVNY-acsmaw  -----tetsqqlrvqgkekhqTLEVSLSRDSPLKTLMSHYEEAMG--LSGRKLSFFDGTKLsGREL---PADLGMESDLEIvwg-----</p> <p><b>BLAST:</b> aliSize=10 (resi) iden=5.13% (4/78) simi=12.82% (10/78)  qkivvhlratggapilkqskfkvsgdkfanvidflrrqlhsdslfvynsafsp-----NDESVIDLYNN-FDFGK-----lvnyacsmaw  -----tetsqqlrvqgkekhqtlevsrsrdsplkTLMSHYEEaMGLsGRKLSFFDGTklsgrelpadlgmesgdliewvg-----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.19 (Å)  ----QKIVVHLRATgG-aPILKqSKFKVSGSDKFNVIDFLRRQLHSD--SLFVYV-nSAFSPNPDESVIDlynnNFGfdGKLVVNYACsmaw  tetsQLQLRVOGK-Ek-HQT--LEVSLSRDSPLKTLMSHYEEaMGLsGRKLSFFDGTKLsGRELPAI---GME--SGDLIEVWG----</p>
	2jxxA (78)			

60	1wz3A (84)	C	8.45	<p><b>TM-align:</b> aliSize=46 (resi) RMSD=2.59 (Å)  qkiVVHLRATGGAPILkqSKFKVSGSKDFANVIDFLRRQLHSD--SLFVYVNSAfsnpdesvidlynnfgfdgklvnyacsmaw-----  ---LQLFIKILTGKTF--TVEME-PSLTIENLKAKIQDKEGIPpdQORLIFAGK-----qledgrtIsdyniqestlhvl</p> <p><b>SARST:</b> aliSize=67 (resi) RMSD=12.30 (Å)  qki-VVHLRATGGAPILkqskFKVSGSKDFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESvidLYNFGFDGKLVVNY-acsmaw  ---IQLFIKILTGTFT---VEMEPSDTIENLKAKIQDKEGIPpdQORLIFA-GKQLEDGRT---SDYNIQESTLHLV1-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=4.23% (3/71) simi=8.45% (6/71)  qkiVVHLRATGGAPILkqskfkvsgskdfanvidflrrqlhsdlsfvyvnsafsnpdsvldlynnfgf-----GKLVVNY-----acsmaw  -----lqlfiktltgkftvmeppsdtienlkakiqkgeippdqrlifagkqledgrtIsdyniqestlhvl-----</p> <p><b>Proposed:</b> aliSize=69 (resi) RMSD=2.22 (Å)  qkiVVHLRATGGAPILkqSKFKVSGSKDFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNFGFDGKLVVNYACSMaw  ---LQLFIKILTGKTF--TVEME-PSLTIENLKAKIQDKEGIPpdQORLIFA-GKQLEDGRTLSY--NIQ--KESTLHLVL-----</p>
61	1wz3A (84)	C	7.89	<p><b>TM-align:</b> aliSize=47 (resi) RMSD=2.84 (Å)  qKiVHLRATgGAPILkqSKFKVSGSKDFANVIDFLRRQLHSD-SLFVYV-NSAfsnpdesvidlynn-----Fgfdgklvnyacsmaw  -M-QVFLKLTGKT--VTIEVEPSLTVENFKAKIQDKEGIPpdQORLIFAGK-----qledgrtIsdyniqestihvlrlrgG-----</p> <p><b>SARST:</b> aliSize=67 (resi) RMSD=11.74 (Å)  qKiv-VHLRATGGAPILkqskFKVSGSKDFANVIDFLRRQLHSD-DLSFVYVNSAFSPNPDESVIDLYNFGFDGKLVV-----nyacsmaw  ---mQVFLKLTGKT--TIEVEPSLTVENFKAKIQDKEGIPpdQORLIFAGKQLEDGRT--LSDYNIQESTIHLVlrlrgG-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=6.58% (5/76) simi=7.89% (6/76)  qKiv-----VHLRATGGAPILkqskfkvsgskdfanvidflrrqlhsdlsfvyvnsafsnpdsvldlynnfgfdgklvnyacsmaw  ----mqvflkltgkvtievepsdtvenfkakiqkgeippdqrlifagkqledgrtIsdyniqestihvlrlrgG-----</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.55 (Å)  qkiVVHLRATGGAPILkqSKFKVSGSKDFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNFG-fdGKLVVNYACSMaw  ---MQVFLKLTGKT--TIEVE-PSLTVENFKAKIQDKEGIPpdQORLIFAG-KQLEDGRTLSY--NI-Qk--ESTIHLVLRG</p>
62	1wz3A (84)	C	2.38	<p><b>TM-align:</b> aliSize=50 (resi) RMSD=2.91 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSKDFANVIDFLRRQLHSD--SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsm-----Aw-----  gssgssGRMLDFRVEY--RDRN-VDVV-LEDTCTVGEIKQILENELQIPvsKMLLKGWKTG-----dvedstvlkslhlp-knnslyvltplppsssshagalqesln</p> <p><b>SARST:</b> aliSize=63 (resi) RMSD=12.04 (Å)  q-KIVVHLRATGGAPILK--QSKFKVSGSKDFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDL-----ynnfgfdgklvnyacsmaw  -gSSGSSGRMLDFRVEYrdRNDVVLEDTCTVGEIKQILENELQIPvsKMLLKGWKTGDVEDSTVLKSLhlpknnslyvltplppsssshagalqesln-----</p> <p><b>BLAST:</b> aliSize=22 (resi) iden=17.86% (15/84) simi=26.19% (22/84)  qkiVVHLRATGGAPILkq-----SKFKVSGSKDFANVIDFLRRQLHSD--SDSLfvVNSAFSPNPDES-----vidlynnfgfdgklvnyacsmaw  -----gssgssgrmlDFRVEYrdRNDVVLEDTCTVGEIKQILENELQIPvsKMLLKGW-KTGDVEDSTVLKSLhlpknnsL--VLTPLPPSSSshagalqesln-----</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=2.19 (Å)  -----QKIVVHLRATggAPILkqSKFKVSGSKDFANVIDFLRR-QLHS-DLSFVYVnsA--FSPNPDESVIDLYNfgfdGKLVVNYACS-----maw  gssgssGRMLDFRVEY--RDRN--VDVVLEDTCTVGEIKQILENELQIPvsKMLLKGW--WktGDVEDSTVLKSLH--LP-KNNSLYVLTPLppsssshagalqesln-----</p>
	2dzmA (100)			

63	1wz3A (84)	C	8.33	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=3.03 (Å)  q-----KIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -gssgsSGLEVVKLDSQTR--TFIVGAQMNVKEFKHEIAASVSIPseKQRLIYQGR-----vlqddkklqeynvggkvihlverapsgpsg</p> <p><b>SARST:</b> aliSize=70 (resi) RMSD=12.57 (Å)  q-----KIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSD--DSLFFVYVNSAFSPNPDESVIDLynfGfdGKLVVNYA-----csmaw  -gssgsSGLEVVKLDSQTR--TFIVGAQMNVKEFKHEIAASVSIPseKQRLIYQGRVLQDQKKLOEY--NVC--GKVIHLVERapsgpsg----</p> <p><b>BLAST:</b> aliSize=10 (resi) iden=7.14% (6/84) simi=11.90% (10/84)  qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdlsfvyvnsafsnpndesvidlynnfgfdgklvnyacsmaw-----  -----gssgsgglevlvktldsqrtrtfivgaqmnvkefkehiiaasvsipsekqrllygrvlqddkklqeynvggkvihlverapsgpsg-----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.51 (Å)  q-----KIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynfGfdGKLVVNYAC--S-----maw  -gssgsSGLEVVKLDS-QT--RTTFIVGAQMNVKEFKHEIAASVSIPseKQRLIYQGRVLQDQKKLOEYN---V--GKVIHLVERapsgpsg---</p>
64	1wz3A (84)	C	7.14	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=2.88 (Å)  -----Q-----KIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSDSLFVYVNSAFsnpndesvidlynn-Fgfdgklvnyacs-----AW-----  gssgsSgphsmePOVTLNVTfkn-EIQ--SFLVSDpENTTWADIEAMVKVSFDLNTIQIKYLDEE-----nE-----evsinsqgeyeealkmavkqgnqlmqvhegsgpsg</p> <p><b>SARST:</b> aliSize=64 (resi) RMSD=12.49 (Å)  qk-----IIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSDs1fvyvnsafsnpndesvidlynnfgfdgklvnyacs-----csmaw  --gssgsgphsmePOVTLNVTfknE-----IQSFLVSDpENTTWADIEAMVKVSFDLNTIQIKYLDEEneEvsinsqgeyeealkmavkqgnqlmqvhegsgpsg-----</p> <p><b>BLAST:</b> aliSize=2 (resi) iden=2.38% (2/84) simi=2.38% (2/84)  qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdlsfvyvnsafsnpndesvidlynnfgfdgklvnyacsmaw-----  -----gssgsgphsmePOVTLNVTfknEIQSFLVSDpENTTWADIEAMVKVSFDLNTIQIKYLDEEneEvsinsqgeyeealkmavkqgnqlmqvhegsgpsg-----</p> <p><b>Proposed:</b> aliSize=74 (resi) RMSD=2.19 (Å)  -----QKIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLynfGfdGKLVVNYAC-----smaw  gssgsgphsmePOVTLNVTfknEIQSFLVSDpENTTWADIEAMVKVSFDLNTIQIKYLDEEneEvsinsqgeyeealkmavkqgnqlmqvhegsgpsg-----</p>
65	1wz3A (84)	C	8.22	<p><b>TM-align:</b> aliSize=46 (resi) RMSD=1.95 (Å)  qKIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSD--SLFVYVNSAfsnpndesvidlynnfgfdgklvnyacsmaw-----  -MIEVNCNDRLE-KKV--RVK-CNTDDTIGDLKKLIAAQTGRwnKIVLKKWY-----tifkdhvslgdyehdgmnllyyq</p> <p><b>SARST:</b> aliSize=59 (resi) RMSD=13.42 (Å)  qkivvhlratggapilk-----QSKFKVSGsDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLynfGfdGKLVVNYAC-----csmaw  -----mi evvcndrlgkKVRVKCNTDDTIGDLKKLIAAQTGRwnKIVLKKWYTIKDHVSL--GDYEIHDGMNLELYQ----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/73) simi=0.00% (0/73)  qkivvhlratggapilkqskfkvsgsdkfavidflrrqlhsdlsfvyvnsafsnpndesvidlynnfgfdgklvnyacsmaw-----  -----mi evvcndrlgkKVRVKCNTDDTIGDLKKLIAAQTGRwnKIVLKKWYTIKDHVSL--GDYEIHDGMNLELYQ----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.21 (Å)  qKIVVHLRATGGAPILkqSKFKVSGsDKFANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLynfGfdGKLVVNYACsmaw  -MIEVNCNDRLE-KKV--RVK-CNTDDTIGDLKKLIAAQTGRwnKIVLKKWYTIKDHVSL--GDYEIHDGMNLELYQ----</p>
	1p0rA (73)			

66	1wz3A (84)	C	7.79	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.65 (Å)  qkIVVHLRATGAPILkqSKFKVSGSDK FANVIDFLRRQLHSD--SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  -SMWIQVRTMDGRQTH--TVDSLRLTVEELRRKIQELFIVEpgLQRLFYRKG-----qmedghtlfdyevrIndtiqlivrqs</p> <p><b>SARST:</b> aliSize=57 (resi) RMSD=14.77 (Å)  qkivvhlratggapilkqs-----KFKVSGSDK FANVIDFLRRQLHSD--DSLFFVYVNSAFSPNPDESviDLYNNFGFDGKLVVNYAC-smaw  -----smwiqvr tmdgrqthtVDSLRLTVEELRRKIQELFIVEpgLQRLFYRKGQMED--GHT--LFDYEVRLNDTIQLLVRQs----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/77) simi=0.00% (0/77)  qkivvhlratggapilkqskfkvsgsdkf fanvidflrrqlhsdlfvvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw-----  -----smwiqvr tmdgrqthtvdslsr ltkveelrrkiqel fhvepglqrlfyrgkqmedghtlfdyevrIndtiqlivrqs</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.33 (Å)  qkIVVHLRATGAPILkqSKFKVSGSDK FANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGfdGKLVVNYACS--maw  -SMWIQVRTMDGRQTH--TVDSLRLTVEELRRKIQELFIVEpgLQRLFYR-GKQMEDGHTLFY--EVR--LNDTIQLLVRQs---</p>
67	1wz3A (84)	C	11.90	<p><b>TM-align:</b> aliSize=55 (resi) RMSD=3.31 (Å)  -----KIVVHLRAtggAPILkQSKFKVSGSDK FANVIDFLRRQLHSDSLFVYVNSAFspnpdesvidlynNFgfdgklvnyacs-----M--AW-----  smalgpfpamVLIIRIKI---PNSG-AVDWTHSQLLFRDVLVIGQVPeATTITAFEYEDEDG-----DR-----itvrsdeemkamsyysTvmEQvngqli eplqifpra</p> <p><b>SARST:</b> aliSize=52 (resi) RMSD=6.81 (Å)  qk-----IVVHLRATGGAPILkqSKFKVSGSDK FANVIDFLRRQLHSDSLFVYVNSAFSPNPDES-----vidlynnfgfdgklvnyacsmaw  --smalgpfpamqVLIIRIKIPNSGAV---DWTTHSQLLFRDVLVIGQV---LPEATITAFEYEDEDGDRitvrsdeemkamsyys tvmeqqvngqli eplqifpra-----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=9.52% (8/84) simi=13.10% (11/84)  qkivvhlratggapilkqskfkvsgsdkf fanvidflrrq-----LHSDSLFVYVNSAFSPNPDESVIDLYNNFGFDG-----klvnyacsmaw  -----smalgpfpamqvlvirikipnsgavdwtVHSQLLFRDVLVIGQVLPeATTITAFEYEDEDGDRitvrsdeemkamsyys tvmeqqvngqli eplqifpra-----</p> <p><b>Proposed:</b> aliSize=76 (resi) RMSD=2.89 (Å)  -----KIVVHLRAtggAPILkQSKFKVSGSDK FANVIDFLRRQLHSDSLFVYVNSA----FSPNPDESVIDLYNNFG--F-----DGKLVVNYACsmaw  smalgpfpamVLIIRIKI---PNSG-AVDWTHSQLLFRDVLVIGQVPeATTITAFEYEDEDGDRITVRSDEEMKAMLSYYstVmeqqvngqliEPQLFPRA----</p>
68	1wz3A (84)	C	10.71	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=3.43 (Å)  ---QKIVVHLRAT--GG-APILkqSKFKVSGSDK FANVIDFLRRQLHSD--D--SLFVYVNSAFspnpdesvidlynn-FGfdgklvnyacs-----MAW-----  qqvGDCCIIRVSLDvDNgNMYK--SIL--TSQDKAPAVIRKAMDkHNLeeEepeDYELLQILS-----dDR-----kIki penanvfyamNSTanydfvlkkr tft</p> <p><b>SARST:</b> aliSize=72 (resi) RMSD=11.96 (Å)  q---KIVVHLRATGGAPILKQSKFKVSGSDK FANVIDFLRRQLHSD-----DSLFFVYV--NSAFSPNPDESvidLYNNF----GFDGKLVN----yacsma  -wqqvGDCCIIRVSLDvDNgNMYKSIL--TSQDKAPAVIRKAMDkHNLeeEepeDYELLQILSDRKLKIPENAN----VFYAmnstANYDFVLKkr tft-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=5.95% (5/84) simi=7.14% (6/84)  qkivvhlratggapilkqskfk-----SGSDK FANVIDFLRRQLHSDSLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaw  -----qqvgdccii rvsldvdngnmysil--TSQDKAPAVIRKAMDkHNLeeEepeDYELLQILSDRKLKIPENANFYAM--StAN--YDFVLKkr tft-----</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=2.67 (Å)  ---QKIVVHLRATGG--apILkqSKFKVSGSDK FANVIDFLRR--QLHSD-----s lfvvyNSAFsPNPDESVIDLYNNFGfdGKLVVNYA-Csmaw  qqvGDCCIIRVSLDvDNg--NMY--KSIL--TSQDKAPAVIRKAMDkHNLeeEepeDYELLQILSD-----DRKLKIPENANFYAM--StAN--YDFVLKkrTFT--</p>
	1raxA (93)			

69	<p>1wz3A (84)</p> <hr/> <p>2cu1A (103)</p>	C	4.76	<p><b>TM-align:</b> aliSize=53 (resi) RMSD=3.09 (Å)  ---Q--KIIVHLRATgGAPILkqSKFkVSGSDKFNANVIDFLRRQLHSDsLFVYVNSAFspnpdesvidlynnfgfdgklvnyacs-----MAW-----  gssGssGDVRVKFEHR-RGEKR--ILQ-FPRPVKLEDLRSKAKIAFGQSMDLHYTNNELV-----iplttqddldkavellDRSIhmkslkillvingsqtatnlepgpssg</p> <p><b>SARST:</b> aliSize=44 (resi) RMSD=2.72 (Å)  q-----KIIVHLRATGgAPILkqskFKVSGSDKFNANVIDFLRRQLHSDSLFVYV-----nSAFspnpdesvidlynnfgfdgklvnyacsmaW  -gssGssGDVRVKFEHR-GEKRI---LQFPRPVKLEDLRSKAKIAFGQSMDLHYTnnelviplttqddldkavellDRSIhmkslkillvingsqtatnlepgpssg-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/84) simi=0.00% (0/84)  qkiVVHLRATgGAPILkqskfkvsgsdKfanvidflrrqlhsdslfvyvnsafspnpdesvidlynnfgfdgklvnyacsmaW-----  -----gssGssGDVRVKFEHRGEKRIlqfprpvkledlrskakiAFGQSMDLHYTnnelviplttqddldkavellDRSIhmkslkillvingsqtatnlepgpssg-----</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.44 (Å)  -----KQIVVHLRATgGAPILkqSKFkVSGSDKFNANVIDFLRRQLHSDsLFVYVNSA---FSPNPDESVIDLYNNfG---FDGKLVVNYAC-----smaw  gssGssGDVRVKFEHR-GEKRI---LQFPRPVKLEDLRSKAKIAFGQSMDLHYTNNELVPLTQDDLDKAVEL-LDRSIHMKSILLVIngstqatnlepgpssg-----</p>
70	<p>1wz3A (84)</p> <hr/> <p>1u4aA (79)</p>	C	5.06	<p><b>TM-align:</b> aliSize=48 (resi) RMSD=2.29 (Å)  -KQIVVHLRATgGAPILkqSKFkVSGSDKFNANVIDFLRRQLHSD--SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaW-----  ndHINLKVAGQ--DGSV--VQFKIKRHTPLSKLMKAYSERQGLsmrQIRFRFDGQ-----pinetdtpaqlemededtidvfqqqtgg</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=13.06 (Å)  q--KIVVHLRATGgAPILkqskFKVSGSDKFNANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGfdgklVNYA-----csmaw  -ndHINLKVAGQDGSVQ---FKIKRHTPLSKLMKAYSERQGLsmrQIRFRFDGQPI-ETDTPAQLEMEDED---TIDVFQqqtgg-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=5.06% (4/79) simi=7.59% (6/79)  qkiVVHLRATgGAPILkqskfkvsgsdKfanvidflrrqlhsdslfvyvnsafspnp-----DESVIDLY-----nnfgfdgklvnyacsmaW  -----ndhinlkvagqDGSVQFKIKRHTPLSKLMKAYSERQGLsmrQIRFRFDGQPI-ETDTPAQLEMEDEDTIDVFQqqtgg-----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.22 (Å)  -KQIVVHLRATgGAPILkqSKFkVSGSDKFNANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGfdGKLVVNYAC-----smaw  ndHINLKVAGQ--DGSV--VQFKIKRHTPLSKLMKAYSERQGLsmrQIRFRFDGQPI-ETDT--PAQLE-ME-DEDTIDVFQqqtgg-----</p>
71	<p>1wz3A (84)</p> <hr/> <p>1c3tA (76)</p>	C	9.21	<p><b>TM-align:</b> aliSize=46 (resi) RMSD=2.67 (Å)  qkiVVHLRATGgAPILkqSKFkVSGSDKFNANVIDFLRRQLHSD--SLFVYVNSAFspnpdesvidlynnfgfdgklvnyacsmaW-----  ---MQLFVKILTGKTI---TVELE-PSDTVENLkAKIQDKEGIPpDQQRILFAGK-----qledgrtIsdynlqkestihlvrlrgg</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=12.14 (Å)  qkiV-VHLRATGgAPILkqskFKVSGSDKFNANVIDFLRRQLHSD-SLFVYVNSAFSPNPDESVIDLYNNFGFDGKLVNY-----acsmaw  ---mQLFVKILTGKTI---TVELE-PSDTVENLkAKIQDKEGIPpDQQRILFAGKQLEDGRT---SDYNLQKESTIHLVlrlrgg-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=6.58% (5/76) simi=7.89% (6/76)  qkiV-----VHLRATGgAPILkqskfkvsgsdKfanvidflrrqlhsdslfvyvnsafspnpdesvidlynnfgfdgklvnyacsmaW  ----mqlfvkiltgkiltvelepsdtvenlkakiqkegippdqqrliFAGKqledgrtIsdynlqkestihlvrlrgg-----</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=2.38 (Å)  qkiVVHLRATGgAPILkqSKFkVSGSDKFNANVIDFLRRQLHSD--SLFVYVNSAFSPNPDESVIDLYNNFGfdGKLVVNYAC-S---maw  ---MQLFVKILTGKTI---TVELE-PSDTVENLkAKIQDKEGIPpDQQRILFAGKQLEDGRTLSY--NLQ--KESTIHLVlrlrgg-----</p>



72	1wz3A (84)	C	9.21	<p><b>TM-align:</b> aliSize=47 (resi) RMSD=2.70 (Å)  qkiVVHLRAtGGAPILkqSKFKVsGSDKfANVIdFLRRQLHSDS-LFVYNSAFspnpdesvidlynnfgfdgklvnyacsmaw-----  ---MQIFVKLTGKTI--TLEVESSDTIDNVKSKIQDKEGIPpDQORLIFAGK-----qledgrtIsdyniqkestlHsvlrlrgg</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=12.46 (Å)  qkiv-VHLRAAtGGAPILkqSKFKVSGSDKfANVIdFLRRQLHSDS-SLFVYNSAFSPNPDESvidLYNFGFDGKLVVNYA-----csmaw  ---mQIFVKLTGKTI--TLEVESSDTIDNVKSKIQDKEGIPpDQORLIFAGKQLEDGRT--SDYNIQKESTLHsvlrlrgg----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=7.89% (6/76) simi=9.21% (7/76)  qkivvhlratggapil-----KQSKFKVSGSDKfANV-----idflrrqlhsdslfvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw  -----mqifvktltgkTITLEVESSDTIDNVKSKIQDKEGIPpDQORLIFAGKQLEDGRTLSY--NIQ--KESTLHsvlrlrgg-----</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=2.40 (Å)  qkIVVHLRAAtGGAPILkqSKFKVSGSDKfANVIdFLRRQLHSDS-SLFVYNSAFSPNPDESVIDLYNFGFDGKLVVNYACS----maw  --MQIFVKLTGKTI--TLEVESSDTIDNVKSKIQDKEGIPpDQORLIFAGKQLEDGRTLSY--NIQ--KESTLHsvlrlrgg---</p>
73	1wz3A (84)	C	8.33	<p><b>TM-align:</b> aliSize=60 (resi) RMSD=4.12 (Å)  ---QKIVVHLRAtGGAPILkqSKFKVsGSDKfANVIdFLRRQLHSDS-LFVYNSAFSPNPDESVIDLYNFGFDGKLVVNYACS-----MAW-----  sseEESFFVQVHD-VSHE---qplTVIKAP-R-VSTaQDVIL-QQTLCKakysysilsnPNpSDYVLLLEEVVKDITNKTT--TP-KS-----sqrvldqecvfqaqskwkG-gkfilklkeqvqasredk</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=9.12 (Å)  q-----KIVVHLR--ATGGAPILkqSKFKVSGSDKfANVIdFLRRQLHSDS-LFVYNSAFSPNPDESVIDLYNFGFDGKLVVNYACS-----smaw  --sseeSFFVQVHDV-SPEQPLTV---IKAPRVSTAQDVILQOTLCKakysysilsnPNpSDYVLLLEEVVKDITNKTT-----KTTTPKSSQRVLLDqecvfqaqskwkGgagkfilklkeqvqasredk----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=9.52% (8/84) simi=13.10% (11/84)  qkivvhlratggapilqskfkvsgsdkfanvidflrrqlhs-----DSLFVYNSAFSPNPDESVIDLYNFGFDGKLVVNYACS-----dlynnfgfdgklvnyacsmaw  -----sseeEESFFVQVHDV-SPEQPLTVIKAPRVSTAQDVILQOTLCKakysysilsnPNpSDYVLLLEEVVKDITNKTTTPKSSQRVLLDqecvfqaqskwkGgagkfilklkeqvqasredk-----</p> <p><b>Proposed:</b> aliSize=76 (resi) RMSD=2.93 (Å)  ---QKIVVHLRAtGGAPILkqSKFKVSGSDKfANVIdFLRRQLHSDS-LFVYNSAFSPNPDESVIDLYNFGFDGKLVVNYACS-----MAW-----w  sseEESFFVQVHDV-SPEQPLTVIKAPRVSTAQDVILQOTLCKakysysilsnPNpSDYVLLLEEVVKDITNKTTTPKSSQRVLLDqecvfqaqskwkGgagkfilklkeqvqasredk-</p>
74	1wz3A (84)	C	8.33	<p><b>TM-align:</b> aliSize=51 (resi) RMSD=2.70 (Å)  -QKIVVHLRAtGGAPILkqSKFKVsGSDKfANVIdFLRRQLHSDS-LFVYNSAFspnpdesvidlynnfgfdgklvnyacs-----MAW-----  qSDVRIKFEH--NG-ER--RIIAFSRPVYEDVEHKVTTVFGQ-PLDLHYMNNEL-----silknqddldkaidildrSSsmkslriillsqdrnlchhhhhh</p> <p><b>SARST:</b> aliSize=70 (resi) RMSD=12.62 (Å)  qki---VHLRAtGGAPILkqSKFKVSGSDKfANVIdFLRRQLHSDS-LFVYNSAFSPNPDESVIDLYN-----NFGfdGKLVVNYA-----csmaw  ---qsdVRIKFEHNGERR---IIAFSRPVYEDVEHKVTTVFGQPLDLHYMNNELSLILKNODDLKAIIdrSSM--KSRILLsqdrnlchhhhhh-----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=9.52% (8/84) simi=13.10% (11/84)  qkivvhlratggapilqskfk-----VSGSDKfANVIdFLRRQLHSDS-LFVYNSAFspnpdesvidlynnfgfdgklvnyacsmaw  -----qsdvrikfehngerrIIAFSRPVYEDVEHKVTTVFGQPLDLHYMNNELSLILKNODDLKAIIdrSSSMKSRILLsqdrnlchhhhhh-----</p> <p><b>Proposed:</b> aliSize=75 (resi) RMSD=2.63 (Å)  QKIVVHLRAtGGAPILkqSKFKVsGSDKfANVIdFLRRQLHSDS-LFVYNSAFSPNPDESVIDLYNFGFDGKLVVNYACS-----MAW-----  QSDVRIKFEHNGERR---IIAFSRPVYEDVEHKVTTVFGQPLDLHYMNNELSLILKNODDLKAIIdrSSSMKSRILLsqdrnlchhhhhh-----</p>
	2jwzA (76)			
	2byfA (116)			
	2jrhA (93)			

75	<p>1wz3A (84)</p> <hr/> <p>2bpsA (81)</p>	C	11.11	<p><b>TM-align:</b> aliSize=50 (resi) RMSD=2.72 (Å)  --OKIVVHLRATGGAPILkqSKFKVSGSDFANVDFLRR-Q-LHSDSL-FVYV---NSAfsnpdesvidlynnfgfdgklvnyacsmaw-----  hgSYDITITDLKHYNGSV--FDLRLSDYHPVKKVIDIAWQaOsVSMPPRegHWIRvvnkDKV-----fsgecklsdcgitngdrleil</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=11.52 (Å)  qk--IVVHLRATG---GApilKQSKFKVSGSDFANVDFLRRQLHSDSLFVY--VNSA---FSPNPDESVIDLYNFGFDGKLVN-yacsmaw  --hgSYDITITDLKHYNGSV--FDLRLSDYHPVKKVIDIAWQaOSVSMPPRegHWIRvvnkDKVFSGECK---SDCGITNGDRLEIL-----</p> <p><b>BLAST:</b> aliSize=13 (resi) iden=13.58% (11/81) simi=16.05% (13/81)  qkivvhlratggapilkqskfkvsgsdfanvidflrrqlhdsdlfvyvnsafspnpdesv-----IDLYNFGFDGKLVN-yacsmaw  -----hgSYDITITDLKHYNGSVFDLRLSDYHPVKKVIDIAWQaOsVSMPPRegHWIRvvnkDKVFSGECK---SDCGITNGDRLEIL-----</p> <p><b>Proposed:</b> aliSize=62 (resi) RMSD=2.54 (Å)  --OKIVVHLRATGGAPILkqSKFKVSGSDFANVDFLRR-Q-L-----hsdslfvyvNSAFSPNPDESVIDLYNFGFDGKLVN-yacsmaw  hgSYDITITDLKH-YNGSV-FDLRLSDYHPVKKVIDIAWQaOsVsmppreghwi rvvnk-----DKVFSGE--C---KSDCGIT-NGDRLEIL-----</p>
76	<p>1wz3A (84)</p> <hr/> <p>1lfdA (87)</p>	C	8.33	<p><b>TM-align:</b> aliSize=55 (resi) RMSD=3.47 (Å)  -QKIVVHLRATgGAPILKQSKFKVSGSDFANVDFLRR-Q-L-HSD-SLFVYVNSAFspnpdesvidlynnfgfdgkl-VVnyacsm-----W-----  gDCCIIRVSLD-VDNGNMYKSIILVTSQDKAPTIVRKAM-DkhnLdedepDYELLQI-----sEDH-----kikiipenavfyamnsAnydfilkk</p> <p><b>SARST:</b> aliSize=73 (resi) RMSD=12.80 (Å)  q----KIVVHLRATGgApilKQSKFKVSGSDFANVDFLRRQLHSD-----SLFVYV---SAFSPNPDESVIDLYNFGFDGKLVN-yacsmaw  -gdcciIRVSLD-VDNGNMYKSIILVTSQDKAPTIVRKAMDkhnLdedepDYELLQIisedHKLKIPENANFYAMNSAANYDFILKKr-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=5.95% (5/84) simi=7.14% (6/84)  qkivvhlratggapilkqskfk-----SGSDFANV-----dfllrrqlhdsdlfvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw  -----gdcciirvslldvngnmysiilvtsqdkaptivrkamdkhnl dedepdyellqiisedhklkipenavfyamnsaanydfilkk-----</p> <p><b>Proposed:</b> aliSize=74 (resi) RMSD=2.62 (Å)  -QKIVVHLRATgGAP-I-LkqSKFKVSGSDFANVDFLRR--Q-L-HSD--SLFVYV---NSAFSPNPDESVIDLYNFGFDGKLVN-yacsmaw  gDCCIIRVSLD-VDNgNmY--KSILVTSQDKAPTIVRKAMDkhnLdedepDYELLQIisedHKLKIPENANFYAM--NSAA-NYDFILKKr----</p>
77	<p>1wz3A (84)</p> <hr/> <p>1wmhB (82)</p>	C	10.98	<p><b>TM-align:</b> aliSize=52 (resi) RMSD=3.15 (Å)  qkIVVHLRAT-GGAPILkqSKFKVSGSDFANVDFLRRQLHSD--DSLFFVYVNSAFspnpdesvidlynn-Fgfdgklvnyacsm-----AW-----  --SIVEVKSFKDAEFR--FALPRASVSGQEFsRLRAVHQIpgLDVLLGYTDAH-----gd-----lpl tndds lhralasGppplrllvqkr</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.16 (Å)  qk--IVVHLRATGGAPILkqskfkVSGSDFANVDFLRRQLHSDSLFVYVNSAFSPNPDES-----VIDLYNFGFDGKLVN-yacsmaw  --sIVEVKSFKDAEFR---FALPRASVSGQEFsRLRAVHQ--IPGLDVLGYTDAHGDLP l tnddsLHRALASGPPPLRLLVQKR-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/82) simi=0.00% (0/82)  qkivvhlratggapilkqskfkvsgsdfanvidflrrqlhdsdlfvyvnsafspnpdesvidlynnfgfdgklvnyacsmaw-----  -----sivevkskfdaefrrfalprasvsgqefsrllravhqipglvllgytdahgdllpl tndds lhralassgppplrllvqkr</p> <p><b>Proposed:</b> aliSize=74 (resi) RMSD=2.51 (Å)  OKIVVHLRAtggAPILkqSKFKVSGS-DK--ANVDFLRR--QLHSDSLFVYV---NSAFSPNPDESVIDLYNFGFDGKLVN-yacsmaw  SIVEVKSFK---DAEF--RR--FALPRASVSGQEFsRLRAVHQIpgLDVLLGYTdahgdllpl tnddsLHRALA--SGPPPLRLLVQKR---</p>

78	1wz3A (84)	C	11.84	<p><b>TM-align:</b> aliSize=45 (resi) RMSD=2.43 (Å)  qkIVVHLRAtgGAPILkqSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGfdgklvnyacsmaw-----  --SASVLAAP-N-GRR--HTVKYTPSTVLLQVLEDTCCRDFNpSEYDLKfQRT-----vldlslqwrfanlpnnaklemvpsr</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=12.98 (Å)  qkiv--VHLRATGApilKQSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGF--DGKLVVNYA---csmaw  ----saSVLAPNCR---RHTVKYTPSTVLLQVLEDTCCRQDFNpSEYDLKfQRTVLDLSLQ---WRFANLPnnAKLEMVPSr-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=13.16% (10/76) simi=18.42% (14/76)  qkivvhlratgg-----ATILKQSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGfdgklvnyacsmaw  -----savsvlAENGRRHVTKYTPSTVLLQVLEDTCCRQDFNpSEYDLKfQRTVLDLSLQWRFA--NLP--NNAKLEMVPSr-----</p> <p><b>Proposed:</b> aliSize=69 (resi) RMSD=2.55 (Å)  qkIVVHLRAtgGAPILkqSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGfdGKLVVNYAC-----smaw  --SASVLAAP-N-GRR--HTVKYTPSTVLLQVLEDTCCRQDFNpSEYDLKfQRTVLDLSLQWRFA--NLP--NNAKLEMVPSr-----</p>
79	1wz3A (84)	C	9.52	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.88 (Å)  -----QKIVVHLRAtgGAPILKQSKFKVSGDKFANVIDFLRRQLHSDSLFVYV-----NSAFSPNPDESVIDLYNFGfdgklvnyacsmaw-----  gssgsSGVMVFIS--SLNSFRSEKRYRSLTIAEFKCKLELVVGPasCMELELYgaddkFYSLDQEDALGsyPDDGCRihvidhsgsgpsg</p> <p><b>SARST:</b> aliSize=58 (resi) RMSD=14.18 (Å)  qkivvhlratggapilkqs-----KFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGFDGKLVVNYAC-----smaw  -----gssgsgvmvfisslnsfrsEKRYRSLTIAEFKCKLELVVGPasCMELELYgaddkfySKLDQEDALGsyPDDGCRihvidhsgsgpsg----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=5.95% (5/84) simi=9.52% (8/84)  qkivvhlratggapilkqskfkvsgdkfanvidflrrqlhdslyfvyvnsafspnpdesv-----IDLYN-NFGFDGK-----vnyacsmaw  -----gssgsgvmvfisslnsfrsEKRYRSLTIAEFKCKLELVVGPasCMELELYgaddkFYSKLDQEDALGsyPDDGCRihvidhsgsgpsg-----</p> <p><b>Proposed:</b> aliSize=72 (resi) RMSD=2.43 (Å)  -----QKIVVHLRAtgGAPILkqSKFKVSGDKFANVIDFLRRQLHSDSLFVYV-----NSAFSPNPDESVIDLYNFGfdGKLVVNYAC-----smaw  gssgsSGVMVFIS--SLNSFR--SEKRYRSLTIAEFKCKLELVVGPasCMELELYgaddkFYSKLDQEDALGsyPDDGCRihvidhsgsgpsg----</p>
80	1wz3A (84)	C	9.52	<p><b>TM-align:</b> aliSize=51 (resi) RMSD=3.15 (Å)  -----QKIVVHLRAtgGAPILkqSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGfdgklvnyacs-----MAW-----  gssgsGMELKVWV---DGVQ--RIVCGTEVTTQCEVIAIAQaIGRTGRYTLIEKWR-----D-----terhlapenpiislnkGQYasdvqililrrtgpssg</p> <p><b>SARST:</b> aliSize=62 (resi) RMSD=11.21 (Å)  q-----KIVVHLRAtgGAPILKQSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNS---AFSPNPDESVIDLYNFGfdgklvnyacsmaw  -gssgsGMELKVWVDIVQRIVCGVT---EVTTCQEVIAIAQaIGRTGRYTLIEKWRTERHLAPHENPIISLNkwgqyasdvqililrrtgpssg-----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=9.52% (8/84) simi=13.10% (11/84)  qkivv-----KIVVHLRAtgGAPILKQSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGfdgklvnyacsmaw  -----gssgsgmelkvwvdgvrivcgvtevttcqevvialaqaigrtgrytliekwrTERHLAPHENPIISLNkwgqyasdvqililrrtgpssg-----</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.71 (Å)  q-----KIVVHLRAtgGAPILkqSKFKVSGDKFANVIDFLRRQLHSDSLFVYVNSAFSPNPDESVIDLYNFGfdGKLVVNYAC-----smaw  -gssgsGMELKVWV---DGVQ--RIVCGTEVTTQCEVIAIAQaIGRTGRYTLIEKWRTERHLAPHENPIISLNkwgqyasdvqililrrtgpssg-----</p>
	2a3A (76)			
	1v6eA (95)			
	2cs4A (95)			

81	1wz3A (84)	C	8.33	<p><b>TM-align:</b> aliSize=51 (resi) RMSD=2.95 (Å)  -----QKIVHLRATGApILkqSKFKVSGDKFANVIDFLRR--QLH-SDSLFVYVNSAFsnpndesvidlynnfgfdgklvnyacs-----MAW-----  gplgSOVRVKAYYR-<b>G</b>--DI--MITHFEPISIEGLCNEVRDmcSFDnEQLFTMKW<b>I</b>DEE-----gdpc<b>tvssqleleafrlyeLNKdselli hvfpc</b></p> <p><b>SARST:</b> aliSize=70 (resi) RMSD=11.76 (Å)  qk-----IVHLRATGAPILkqskFKVSGDKFANVIDFLRRQLHSLSLFFVYVNSAFsPNPDES-----VIDLYNFGFDGKLVVNY--acsmaw  --gplgsQVRVKAYYR<b>DI</b>MI-----THFEPISIEGLCNEVRDmCSFDnEQLFTMKW--<b>I</b>DEEGD<b>pc</b>tvssqlelea<b>AFRLYELNKDSEL</b>LHV<b>F</b>pc-----</p> <p><b>BLAST:</b> aliSize=0 (resi) iden=0.00% (0/84) simi=0.00% (0/84)  qkivvhlratggapilkqskfkvsgdkfanvidflrrqlhsdlsfvyvnsafsnpndesvidlynnfgfdgklvnyacsma-----  -----gplgsqvrvkayyrgdimithfepsisfeqlcnevrdmcsfdneqlftmkw<b>ideegdpc</b>tvssqleleafrlyelnkdselli hvfpc</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.54 (Å)  -----QKIVHLRATGApI-lkqSKFKVSGDKFANVIDFLRR--QLH-SDSLFVYV<b>N</b>---SAFSPNPDESVIDLYNfG--F-DGKLVVNYAC-smaw  gplgSOVRVKAYYR-<b>G</b>--Di---MITHFEPISIEGLCNEVRDmcSFDnEQLFTMKW<b>I</b>deeg<b>D</b>PCTVSSQLELEEA<b>FRL</b>-YeINk<b>SE</b>L<b>L</b>H<b>V</b>FPc-----</p>
82	1zvnA (99)	N	28.28	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.22 (Å)  sgwv-----WNQ<b>F</b>VLE<b>E</b>Y<b>T</b>TD<b>L</b>Y<b>V</b>G<b>K</b>L<b>H</b>S<b>D</b>M<b>R</b>G<b>D</b>G<b>S</b>I<b>K</b>I<b>L</b>S<b>E</b>G<b>A</b>-----G<b>I</b>V<b>T</b>I<b>D</b>D<b>T</b>I<b>G</b>D<b>I</b>H<b>A</b>I<b>O</b>R<b>L</b>D<b>R</b>E<b>R</b>S<b>O</b>Y<b>T</b>I<b>R</b>A<b>O</b>A<b>L</b>D<b>r</b>R<b>T</b>C<b>R</b>P<b>M</b>E<b>P</b>E<b>S</b>E<b>F</b>I<b>K</b>I<b>O</b>  ----gplgswv<b>I</b>P<b>P</b>I<b>S</b>C<b>P</b>E<b>N</b>E<b>K</b>E<b>F</b>F<b>K</b>N<b>L</b>V<b>O</b>I<b>K</b>S<b>N</b>R<b>K</b>E<b>T</b>-<b>K</b>V<b>F</b>I<b>S</b>I<b>T</b>O<b>G</b>A<b>d</b>k<b>p</b>p<b>V</b>G<b>V</b>I<b>E</b>R<b>E</b>T<b>G</b>W<b>L</b>K<b>V</b>T<b>O</b>P<b>L</b>D<b>R</b>E<b>A</b>I<b>A</b>K<b>I</b>I<b>Y</b>S<b>H</b>A<b>V</b>S<b>-</b>S<b>N</b>G<b>N</b>A<b>V</b>E<b>D</b>P<b>M</b>E<b>I</b>V<b>I</b>T<b>V</b>T<b>D</b></p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=3.51 (Å)  s-----G<b>V</b>W<b>N</b>O<b>F</b>V<b>L</b>E<b>E</b>Y<b>T</b>TD<b>L</b>Y<b>V</b>G<b>K</b>L<b>H</b>S<b>D</b>M<b>R</b>G<b>D</b>G<b>S</b>I<b>K</b>I<b>L</b>S<b>E</b>G<b>A</b>-----A<b>G</b>i<b>V</b>T<b>I</b>D<b>D</b>T<b>I</b>G<b>D</b>I<b>H</b>A<b>I</b>O<b>R</b>L<b>D</b>R<b>E</b>R<b>S</b>O<b>Y</b>T<b>I</b>R<b>A</b>O<b>A</b>L<b>D</b>r<b>R</b>T<b>C</b>R<b>P</b>M<b>E</b>P<b>E</b>S<b>E</b>F<b>I</b>K<b>I</b>O<b>-</b>d  -gplg<b>S</b>W<b>V</b>I<b>P</b>I<b>S</b>C<b>P</b>E<b>N</b>E<b>K</b>E<b>F</b>F<b>K</b>N<b>L</b>V<b>O</b>I<b>K</b>S<b>N</b>R<b>-</b>D<b>K</b>E<b>T</b><b>K</b>V<b>F</b>I<b>S</b>I<b>T</b>O<b>G</b>A<b>d</b>k<b>p</b>p<b>V</b>G<b>-</b>V<b>I</b>E<b>R</b>E<b>T</b><b>G</b>W<b>L</b>K<b>V</b>T<b>O</b>P<b>L</b>D<b>R</b>E<b>A</b>I<b>A</b>K<b>I</b>I<b>Y</b>S<b>H</b>A<b>V</b>S<b>-</b>S<b>N</b>G<b>N</b>A<b>V</b>E<b>D</b>P<b>M</b>E<b>I</b>V<b>I</b>T<b>V</b>T<b>D</b></p> <p><b>BLAST:</b> aliSize=48 (resi) iden=29.29% (29/99) simi=48.48% (48/99)  sg-----W<b>N</b>O<b>F</b>V<b>L</b>E<b>E</b>Y<b>T</b>TD<b>L</b>Y<b>V</b>G<b>K</b>L<b>H</b>S<b>D</b>M<b>R</b>G<b>D</b>G<b>S</b>I<b>K</b>I<b>L</b>S<b>E</b>G<b>A</b>-----G<b>I</b>V<b>T</b>I<b>D</b>D<b>T</b>I<b>G</b>D<b>I</b>H<b>A</b>I<b>O</b>R<b>L</b>D<b>R</b>E<b>R</b>S<b>O</b>Y<b>T</b>I<b>R</b>A<b>O</b>A<b>L</b>D<b>r</b>R<b>T</b>C<b>R</b>P<b>M</b>E<b>P</b>E<b>S</b>E<b>F</b>I<b>K</b>I<b>O</b>  --gplgs<b>W</b>V<b>I</b>P<b>P</b>I<b>S</b>C<b>P</b>E<b>N</b>E<b>K</b>E<b>F</b>F<b>K</b>N<b>L</b>V<b>O</b>I<b>K</b>S<b>N</b>R<b>K</b>-<b>E</b>T<b>K</b>V<b>F</b>I<b>S</b>I<b>T</b>O<b>G</b>A<b>d</b>k<b>p</b>p<b>v</b>G<b>V</b>I<b>E</b>R<b>E</b>T<b>G</b>W<b>L</b>K<b>V</b>T<b>O</b>P<b>L</b>D<b>R</b>E<b>A</b>I<b>A</b>K<b>I</b>I<b>Y</b>S<b>H</b>A<b>V</b>S<b>-</b>S<b>N</b>G<b>N</b>A<b>V</b>E<b>D</b>P<b>M</b>E<b>I</b>V<b>I</b>T<b>V</b>T<b>D</b></p> <p><b>Proposed:</b> aliSize=95 (resi) RMSD=1.64 (Å)  -S-G<b>V</b>W<b>N</b>O<b>-</b><b>F</b>V<b>L</b>E<b>E</b>Y<b>T</b>TD<b>L</b>Y<b>V</b>G<b>K</b>L<b>H</b>S<b>D</b>M<b>R</b>--g<b>d</b>G<b>S</b>I<b>K</b>I<b>L</b>S<b>E</b>G<b>A</b>-----G<b>I</b>V<b>T</b>I<b>D</b>D<b>T</b>I<b>G</b>D<b>I</b>H<b>A</b>I<b>O</b>R<b>L</b>D<b>R</b>E<b>R</b>S<b>O</b>Y<b>T</b>I<b>R</b>A<b>O</b>A<b>L</b>D<b>r</b>R<b>T</b>C<b>R</b>P<b>M</b>E<b>P</b>E<b>S</b>E<b>F</b>I<b>K</b>I<b>O</b>-  g<b>P</b>I<b>S</b>W<b>V</b>I<b>P</b>I<b>S</b>C<b>P</b>E<b>N</b>E<b>K</b>E<b>F</b>F<b>K</b>N<b>L</b>V<b>O</b>I<b>K</b>S<b>N</b>R<b>K</b>e<b>t</b>--<b>K</b>V<b>F</b>I<b>S</b>I<b>T</b>O<b>G</b>A<b>d</b>k<b>p</b>p<b>v</b>G<b>V</b>I<b>E</b>R<b>E</b>T<b>G</b>W<b>L</b>K<b>V</b>T<b>O</b>P<b>L</b>D<b>R</b>E<b>A</b>I<b>A</b>K<b>I</b>I<b>Y</b>S<b>H</b>A<b>V</b>S<b>-</b>S<b>N</b>G<b>N</b>A<b>V</b>E<b>D</b>P<b>M</b>E<b>I</b>V<b>I</b>T<b>V</b>T<b>D</b>a</p>
83	2oyaA (102)	N	97.96	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=0.71 (Å)  aplaqrvrimgg-----<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>S  -----q<b>r</b>v<b>r</b>i<b>m</b>g<b>g</b><b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>S</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=4.01 (Å)  aplaqr--<b>V</b>R<b>I</b>M<b>G</b>G<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>-s  -----q<b>r</b><b>V</b>R<b>I</b>M<b>G</b>G<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>s-</p> <p><b>BLAST:</b> aliSize=98 (resi) iden=100.00% (98/98) simi=100.00% (98/98)  apla<b>Q</b>R<b>V</b>R<b>I</b>M<b>G</b>G<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>S  ----<b>Q</b>R<b>V</b>R<b>I</b>M<b>G</b>G<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>S</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=0.45 (Å)  apLa<b>Q</b>r<b>V</b>R<b>I</b>M<b>G</b>G<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>S  --<b>Q</b>-<b>R</b>-<b>V</b>R<b>I</b>M<b>G</b>G<b>T</b>N<b>R</b>G<b>R</b>A<b>E</b>V<b>Y</b>N<b>N</b>E<b>W</b>G<b>T</b>I<b>C</b>D<b>D</b>D<b>W</b>D<b>N</b>D<b>A</b>T<b>V</b>F<b>C</b>R<b>M</b>L<b>G</b>Y<b>S</b>R<b>G</b>R<b>A</b>L<b>S</b>S<b>Y</b>G<b>G</b>G<b>S</b>G<b>N</b>I<b>W</b>L<b>D</b>N<b>V</b>N<b>C</b>R<b>G</b>T<b>E</b>N<b>S</b>L<b>W</b>D<b>C</b>S<b>K</b>N<b>S</b>W<b>G</b>N<b>H</b>N<b>C</b>V<b>H</b>N<b>E</b>D<b>A</b>G<b>V</b>E<b>C</b>S</p>
	2oy3A (98)			

84	<p>2oyaA (102)</p> <p>1by2A (112)</p>	N	47.06	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=1.47 (Å)  aplaqrvring-----G<sup>T</sup>NRGRAEVYNNENGTICDDDDWNNDATVFCRMLGYSRG-RALSS-Y-<sup>G</sup>GGSCN<sup>W</sup>L<sup>D</sup>N<sup>V</sup>N<sup>R</sup>RTENS<sup>L</sup>W<sup>D</sup>C<sup>S</sup>SKNS<sup>W</sup>GNH<sup>N</sup>CV<sup>H</sup>NE<sup>D</sup>AG<sup>V</sup>ES-----  -----avndgdmrladggATN<sup>O</sup>GR<sup>V</sup>E<sup>I</sup>F<sup>R</sup>G<sup>Q</sup>W<sup>G</sup>T<sup>V</sup>C<sup>D</sup>N<sup>L</sup>W<sup>D</sup>L<sup>T</sup>D<sup>A</sup>S<sup>V</sup>VC<sup>R</sup>A<sup>L</sup>G<sup>F</sup>EN<sup>A</sup>t<sup>O</sup>AL<sup>G</sup>R<sup>A</sup>a<sup>F</sup><sup>O</sup>GS<sup>G</sup>P<sup>I</sup>M<sup>L</sup>DE<sup>V</sup>O<sup>C</sup>T<sup>G</sup>TE<sup>A</sup>SL<sup>A</sup>D<sup>C</sup>K<sup>S</sup>L<sup>G</sup>W<sup>L</sup>K<sup>S</sup>N<sup>C</sup>R<sup>H</sup>ER<sup>D</sup>AG<sup>V</sup>CT<sup>N</sup>et<sup>t</sup>l</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=4.15 (Å)  aplaqr-----VR<sup>I</sup>M<sup>G</sup>--G<sup>T</sup>NRGRAEVYNNENGTICDDDDWNNDATVFCRMLGYSRG-RALSS--Y<sup>G</sup>GGSCN<sup>W</sup>L<sup>D</sup>N<sup>V</sup>N<sup>R</sup>RTENS<sup>L</sup>W<sup>D</sup>C<sup>S</sup>SKNS<sup>W</sup>GNH<sup>N</sup>CV<sup>H</sup>NE<sup>D</sup>AG<sup>V</sup>E-----cs  -----avndgM<sup>R</sup>L<sup>A</sup>D<sup>G</sup>g<sup>A</sup>T<sup>N</sup><sup>O</sup>GR<sup>V</sup>E<sup>I</sup>F<sup>R</sup>G<sup>Q</sup>W<sup>G</sup>T<sup>V</sup>C<sup>D</sup>N<sup>L</sup>W<sup>D</sup>L<sup>T</sup>D<sup>A</sup>S<sup>V</sup>VC<sup>R</sup>A<sup>L</sup>G<sup>F</sup>EN<sup>A</sup>t<sup>O</sup>AL<sup>G</sup>R<sup>A</sup>a<sup>F</sup><sup>O</sup>GS<sup>G</sup>P<sup>I</sup>M<sup>L</sup>DE<sup>V</sup>O<sup>C</sup>T<sup>G</sup>TE<sup>A</sup>SL<sup>A</sup>D<sup>C</sup>K<sup>S</sup>L<sup>G</sup>W<sup>L</sup>K<sup>S</sup>N<sup>C</sup>R<sup>H</sup>ER<sup>D</sup>AG<sup>V</sup>C<sup>T</sup>net<sup>t</sup>l--</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=47.06% (48/102) simi=59.80% (61/102)  aplaqrvrim-----G<sup>T</sup>NRGRAEVYNNENGTICDDDDWNNDATVFCRMLGYSRG-RAL--SS<sup>Y</sup><sup>G</sup>GGSCN<sup>W</sup>L<sup>D</sup>N<sup>V</sup>N<sup>R</sup>RTENS<sup>L</sup>W<sup>D</sup>C<sup>S</sup>SKNS<sup>W</sup>GNH<sup>N</sup>CV<sup>H</sup>NE<sup>D</sup>AG<sup>V</sup>ES-----  -----avndgdmrladggATN<sup>O</sup>GR<sup>V</sup>E<sup>I</sup>F<sup>R</sup>G<sup>Q</sup>W<sup>G</sup>T<sup>V</sup>C<sup>D</sup>N<sup>L</sup>W<sup>D</sup>L<sup>T</sup>D<sup>A</sup>S<sup>V</sup>VC<sup>R</sup>A<sup>L</sup>G<sup>F</sup>EN<sup>A</sup>t<sup>O</sup>AL<sup>G</sup>r<sup>A</sup>a<sup>F</sup><sup>O</sup>GS<sup>G</sup>P<sup>I</sup>M<sup>L</sup>DE<sup>V</sup>O<sup>C</sup>T<sup>G</sup>TE<sup>A</sup>SL<sup>A</sup>D<sup>C</sup>K<sup>S</sup>L<sup>G</sup>W<sup>L</sup>K<sup>S</sup>N<sup>C</sup>R<sup>H</sup>ER<sup>D</sup>AG<sup>V</sup>CT<sup>N</sup>et<sup>t</sup>l</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.18 (Å)  -A<sup>P</sup>L<sup>A</sup>Q<sup>r</sup>V<sup>R</sup>I<sup>M</sup>G<sup>G</sup>-<sup>T</sup>-N<sup>R</sup>G<sup>R</sup>A<sup>E</sup>V<sup>Y</sup>N<sup>N</sup>E<sup>N</sup>G<sup>T</sup>I<sup>C</sup>D<sup>D</sup>D<sup>W</sup>N<sup>N</sup>D<sup>A</sup>T<sup>V</sup>F<sup>C</sup>R<sup>M</sup>L<sup>G</sup>Y<sup>S</sup>R<sup>G</sup>-R<sup>A</sup>L<sup>S</sup>S<sup>Y</sup>--<sup>G</sup>GGSCN<sup>W</sup>L<sup>D</sup>N<sup>V</sup>N<sup>R</sup>RTENS<sup>L</sup>W<sup>D</sup>C<sup>S</sup>SKNS<sup>W</sup>GNH<sup>N</sup>CV<sup>H</sup>NE<sup>D</sup>AG<sup>V</sup>ES-----  a<sup>V</sup>N<sup>D</sup>G<sup>D</sup>-M<sup>R</sup>L<sup>A</sup>D<sup>G</sup>g<sup>A</sup>T<sup>N</sup><sup>O</sup>GR<sup>V</sup>E<sup>I</sup>F<sup>R</sup>G<sup>Q</sup>W<sup>G</sup>T<sup>V</sup>C<sup>D</sup>N<sup>L</sup>W<sup>D</sup>L<sup>T</sup>D<sup>A</sup>S<sup>V</sup>VC<sup>R</sup>A<sup>L</sup>G<sup>F</sup>EN<sup>A</sup>t<sup>O</sup>AL<sup>G</sup>R<sup>A</sup>a<sup>F</sup><sup>O</sup>GS<sup>G</sup>P<sup>I</sup>M<sup>L</sup>DE<sup>V</sup>O<sup>C</sup>T<sup>G</sup>TE<sup>A</sup>SL<sup>A</sup>D<sup>C</sup>K<sup>S</sup>L<sup>G</sup>W<sup>L</sup>K<sup>S</sup>N<sup>C</sup>R<sup>H</sup>ER<sup>D</sup>AG<sup>V</sup>CT<sup>N</sup>et<sup>t</sup>l</p>
85	<p>1v9yA (103)</p> <p>2pd7A (149)</p>	N	15.53	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.97 (Å)  -----G<sup>I</sup>FF<sup>p</sup>-----A<sup>L</sup>eq<sup>N</sup>m<sup>M</sup>G<sup>A</sup>V<sup>I</sup>INE--N--DE<sup>V</sup>M<sup>F</sup>F<sup>N</sup>P<sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D<sup>M</sup>i<sup>P</sup>R---D<sup>L</sup>R--P-----A--H<sup>P</sup>E<sup>Y</sup>I<sup>r</sup>H<sup>N</sup>-R<sup>E</sup>-----R<sup>E</sup>L<sup>Q</sup>L<sup>E</sup>K<sup>K</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>V<sup>R</sup>D  mhtlyapgyD<sup>I</sup>M<sup>G</sup>-y<sup>l</sup>i<sup>q</sup>imn<sup>r</sup>p<sup>n</sup>p<sup>q</sup>v<sup>e</sup>l<sup>g</sup>p<sup>v</sup>D<sup>T</sup>--S-C<sup>A</sup>L<sup>I</sup>I<sup>C</sup>D<sup>L</sup>k<sup>Q</sup>k<sup>d</sup>T<sup>P</sup>I<sup>V</sup>Y<sup>A</sup>S<sup>E</sup>F<sup>L</sup>Y<sup>M</sup>T<sup>G</sup>S<sup>N</sup>A<sup>E</sup>V<sup>L</sup>G<sup>R</sup>N<sup>C</sup>R<sup>F</sup>L-Q<sup>S</sup>p<sup>d</sup>g<sup>M</sup>V<sup>K</sup>p<sup>k</sup>S<sup>t</sup>r<sup>k</sup>y<sup>v</sup>d<sup>S</sup>n<sup>t</sup>I<sup>N</sup>T<sup>M</sup>R<sup>K</sup>A<sup>I</sup>D<sup>R</sup>naev<sup>q</sup>V<sup>E</sup>V<sup>N</sup>F<sup>K</sup>N<sup>G</sup>Q<sup>R</sup>F<sup>V</sup>N<sup>F</sup>L<sup>T</sup>M<sup>I</sup>P<sup>V</sup>R<sup>D</sup>e<sup>T</sup>g<sup>E</sup>Y<sup>R</sup>S<sup>M</sup>G<sup>F</sup>Q<sup>C</sup>E</p> <p><b>SARST:</b> aliSize=92 (resi) RMSD=4.38 (Å)  giffpaleq<sup>n</sup>-----MM<sup>G</sup>A<sup>V</sup>I<sup>I</sup>N<sup>E</sup>N--DE<sup>V</sup>M<sup>F</sup>F<sup>N</sup>P<sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D<sup>M</sup>i<sup>P</sup>R<sup>L</sup>-----R<sup>P</sup>A<sup>H</sup>P<sup>E</sup>Y<sup>I</sup>R<sup>H</sup>N<sup>R</sup>E<sup>R</sup>E-----L<sup>Q</sup>L<sup>E</sup>K<sup>K</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>V<sup>R</sup>--d  -----mhtlyapgydim<sup>y</sup>l<sup>i</sup>q<sup>i</sup>imn<sup>r</sup>p<sup>n</sup>p<sup>q</sup>v<sup>e</sup>l<sup>g</sup>p<sup>v</sup>D<sup>T</sup>SC<sup>A</sup>L<sup>I</sup>I<sup>C</sup>D<sup>L</sup>k<sup>Q</sup>k<sup>d</sup>T<sup>P</sup>I<sup>V</sup>Y<sup>A</sup>S<sup>E</sup>F<sup>L</sup>Y<sup>M</sup>T<sup>G</sup>S<sup>N</sup>A<sup>E</sup>V<sup>L</sup>G<sup>R</sup>N<sup>C</sup>R<sup>F</sup>LQ<sup>S</sup>P<sup>D</sup>G<sup>M</sup>v<sup>k</sup>p<sup>k</sup>s<sup>t</sup>r<sup>k</sup>y<sup>v</sup>d<sup>S</sup>n<sup>t</sup>I<sup>N</sup>T<sup>M</sup>R<sup>K</sup>A<sup>I</sup>D<sup>R</sup>naev<sup>q</sup>V<sup>E</sup>V<sup>N</sup>F<sup>K</sup>N<sup>G</sup>Q<sup>R</sup>F<sup>V</sup>N<sup>F</sup>L<sup>T</sup>M<sup>I</sup>P<sup>V</sup>R<sup>D</sup>e<sup>T</sup>g<sup>E</sup>Y<sup>R</sup>S<sup>M</sup>G<sup>F</sup>Q<sup>C</sup>e-</p> <p><b>BLAST:</b> aliSize=41 (resi) iden=18.45% (19/103) simi=39.81% (41/103)  giffpaleq<sup>n</sup>m<sup>m</sup>g<sup>a</sup>v<sup>l</sup>-----I<sup>N</sup>E<sup>N</sup>E--V<sup>M</sup>F<sup>F</sup>N<sup>P</sup><sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D<sup>M</sup>i<sup>P</sup>R<sup>L</sup>---L<sup>R</sup>P--A<sup>H</sup>P<sup>E</sup>Y<sup>I</sup>R<sup>H</sup>N<sup>R</sup>E<sup>R</sup>E<sup>R</sup>L<sup>Q</sup>L<sup>E</sup>K<sup>K</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>--V<sup>R</sup>D-----  -----mhtlyapgydim<sup>y</sup>l<sup>i</sup>q<sup>i</sup>imn<sup>r</sup>p<sup>n</sup>p<sup>q</sup>v<sup>e</sup>l<sup>g</sup>p<sup>v</sup>D<sup>T</sup>sc<sup>a</sup>l<sup>i</sup>l<sup>e</sup>d<sup>L</sup>K<sup>Q</sup>K<sup>T</sup>p<sup>I</sup>V<sup>Y</sup>A<sup>S</sup>E<sup>F</sup>L<sup>Y</sup>M<sup>T</sup>G<sup>S</sup>N<sup>A</sup>E<sup>V</sup>L<sup>G</sup>R<sup>N</sup>C<sup>R</sup>F<sup>L</sup>Q<sup>S</sup>P<sup>D</sup>G<sup>M</sup>V<sup>K</sup>p<sup>k</sup>S<sup>T</sup>R<sup>K</sup>I<sup>V</sup>D<sup>S</sup>T<sup>I</sup>N<sup>T</sup>M<sup>R</sup>K<sup>A</sup>I<sup>D</sup>R<sup>N</sup>A<sup>E</sup>V<sup>Q</sup>V<sup>E</sup>V<sup>N</sup>F<sup>K</sup>N<sup>G</sup>Q<sup>R</sup>F<sup>V</sup>N<sup>F</sup>L<sup>T</sup>M<sup>I</sup>p<sup>V</sup>R<sup>D</sup>e<sup>t</sup>g<sup>e</sup>y<sup>r</sup>s<sup>m</sup>g<sup>f</sup>q<sup>c</sup>e</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.15 (Å)  -----G<sup>I</sup>FF<sup>P</sup>A<sup>L</sup>E<sup>Q</sup>-----N<sup>M</sup>M<sup>G</sup>A<sup>V</sup>I<sup>I</sup>N<sup>E</sup>N--N<sup>D</sup>E<sup>V</sup>M<sup>F</sup>F<sup>N</sup>P<sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D<sup>M</sup>i<sup>P</sup>R-----D<sup>L</sup>-r<sup>p</sup>A--H<sup>p</sup>E<sup>Y</sup>I<sup>r</sup>H<sup>N</sup>-R<sup>E</sup>-----R<sup>E</sup>L<sup>Q</sup>L<sup>E</sup>K<sup>K</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>V<sup>R</sup>D<sup>h</sup>  mhtlyapgydi<sup>m</sup>g<sup>y</sup>l<sup>i</sup>q<sup>i</sup>imn<sup>r</sup>p<sup>n</sup>p<sup>q</sup>v<sup>e</sup>l<sup>g</sup>p<sup>v</sup>D<sup>T</sup>SC<sup>A</sup>L<sup>I</sup>I<sup>C</sup>D<sup>L</sup>k<sup>Q</sup>k<sup>d</sup>T<sup>P</sup>I<sup>V</sup>Y<sup>A</sup>S<sup>E</sup>F<sup>L</sup>Y<sup>M</sup>T<sup>G</sup>S<sup>N</sup>A<sup>E</sup>V<sup>L</sup>G<sup>R</sup>N<sup>C</sup>R<sup>F</sup>L-Q<sup>S</sup>p<sup>d</sup>g<sup>m</sup>v<sup>k</sup>p<sup>k</sup>s<sup>t</sup>r<sup>k</sup>y<sup>v</sup>d<sup>S</sup>n<sup>t</sup>I--N<sup>T</sup>M<sup>R</sup>K<sup>A</sup>I<sup>D</sup>R<sup>N</sup>A<sup>E</sup>V<sup>Q</sup>V<sup>E</sup>V<sup>N</sup>F<sup>K</sup>N<sup>G</sup>Q<sup>R</sup>F<sup>V</sup>N<sup>F</sup>L<sup>T</sup>M<sup>I</sup>P<sup>V</sup>R<sup>D</sup>e<sup>T</sup>g<sup>E</sup>Y<sup>R</sup>S<sup>M</sup>G<sup>F</sup>Q<sup>C</sup>E-</p>
86	<p>1v9yA (103)</p> <p>1f98A (125)</p>	N	14.56	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.16 (Å)  -----G<sup>I</sup>FF--P<sup>A</sup>L<sup>E</sup>Q<sup>N</sup>M<sup>M</sup>G<sup>A</sup>V<sup>L</sup>I<sup>N</sup>E<sup>N</sup>D<sup>E</sup>V<sup>M</sup>F<sup>F</sup>N<sup>P</sup><sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D--M<sup>L</sup>I<sup>P</sup>r<sup>d</sup>L<sup>R</sup>P<sup>A</sup>-H<sup>P</sup>E<sup>Y</sup>I<sup>r</sup>H<sup>N</sup>R<sup>E</sup>-----R<sup>E</sup>L<sup>Q</sup>L<sup>E</sup>K<sup>K</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>V<sup>R</sup>D-  mehvafgsedient<sup>I</sup>A<sup>K</sup>M<sup>D</sup>d<sup>g</sup>Q<sup>L</sup>D<sup>G</sup>L<sup>A</sup>F<sup>G</sup>A<sup>I</sup>Q<sup>L</sup>D<sup>G</sup>D<sup>G</sup>N<sup>I</sup>L<sup>O</sup>Y<sup>N</sup>A<sup>E</sup>G<sup>D</sup>I<sup>V</sup>C<sup>R</sup>D<sup>P</sup>K<sup>Q</sup>V<sup>I</sup>G<sup>K</sup>N<sup>F</sup>F<sup>k</sup>d<sup>V</sup>A<sup>P</sup>C--T<sup>D</sup>S<sup>P</sup>e<sup>F</sup>Y<sup>G</sup>K<sup>F</sup>K<sup>E</sup>G<sup>V</sup>A<sup>s</sup>gn<sup>I</sup>n<sup>t</sup>m<sup>F</sup>E<sup>Y</sup>T<sup>F</sup>D<sup>Y</sup>-Q<sup>M</sup>T<sup>P</sup>T<sup>K</sup>V<sup>K</sup>V<sup>H</sup>M<sup>K</sup>K<sup>A</sup>L<sup>S</sup>--G<sup>D</sup>S<sup>Y</sup>W<sup>V</sup>F<sup>V</sup>K<sup>R</sup>v</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=13.35 (Å)  gif-----F<sup>P</sup>A<sup>L</sup>E<sup>Q</sup>N<sup>M</sup>M<sup>G</sup>A<sup>V</sup>L<sup>I</sup>N<sup>E</sup>N<sup>D</sup>E<sup>V</sup>M<sup>F</sup>F<sup>N</sup>P<sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>-----D<sup>M</sup>L<sup>I</sup>P<sup>R</sup>D<sup>L</sup>R<sup>P</sup>A<sup>H</sup>P<sup>E</sup>Y<sup>I</sup>r<sup>h</sup>n<sup>r</sup>e<sup>r</sup>l<sup>q</sup>l<sup>e</sup>k<sup>d</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>V-----rd  ---mehvafgsedient<sup>I</sup>A<sup>k</sup>m<sup>d</sup>D<sup>G</sup>Q<sup>L</sup>D<sup>G</sup>L<sup>A</sup>F<sup>G</sup>A<sup>I</sup>Q<sup>L</sup>D<sup>G</sup>D<sup>G</sup>N<sup>I</sup>L<sup>O</sup>Y<sup>N</sup>A<sup>E</sup>G<sup>D</sup>I<sup>V</sup>C<sup>R</sup>D<sup>P</sup>K<sup>Q</sup>V<sup>I</sup>G<sup>K</sup>N<sup>F</sup>f<sup>k</sup>d<sup>v</sup>a<sup>P</sup>C<sup>T</sup>D<sup>S</sup>P<sup>E</sup>F<sup>Y</sup>G<sup>K</sup>F<sup>K</sup>E<sup>G</sup>V-----A<sup>S</sup>N<sup>L</sup>N<sup>T</sup>M<sup>F</sup>E<sup>Y</sup>T<sup>F</sup>D<sup>Y</sup>Q<sup>M</sup>T<sup>P</sup>T<sup>K</sup>V<sup>K</sup>V<sup>H</sup>M<sup>K</sup>K<sup>A</sup>l<sup>s</sup>g<sup>d</sup>s<sup>y</sup>w<sup>v</sup>f<sup>v</sup>k<sup>r</sup>v--</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpa<sup>l</sup>e<sup>q</sup>n<sup>m</sup>m-----G<sup>A</sup>V<sup>L</sup>I<sup>N</sup>E<sup>N</sup>D<sup>E</sup>V<sup>M</sup>F<sup>F</sup>N<sup>P</sup><sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D<sup>M</sup>i<sup>P</sup>r<sup>d</sup>L<sup>R</sup>P<sup>A</sup>--H<sup>P</sup>E<sup>Y</sup>-----i<sup>r</sup>h<sup>n</sup>r<sup>e</sup>r<sup>e</sup>l<sup>q</sup>l<sup>e</sup>k<sup>d</sup>g<sup>s</sup>k<sup>i</sup>w<sup>t</sup>r<sup>f</sup>a<sup>l</sup>s<sup>k</sup>v<sup>s</sup>a<sup>e</sup>g<sup>k</sup>v<sup>y</sup>l<sup>a</sup>l<sup>v</sup>r<sup>d</sup>  -----mehvafgsedient<sup>I</sup>A<sup>k</sup>m<sup>d</sup>d<sup>g</sup>q<sup>L</sup>d<sup>G</sup>l<sup>A</sup>f<sup>G</sup>A<sup>I</sup>Q<sup>L</sup>D<sup>G</sup>D<sup>G</sup>N<sup>I</sup>L<sup>O</sup>Y<sup>N</sup>A<sup>E</sup>G<sup>D</sup>I<sup>V</sup>C<sup>R</sup>D<sup>P</sup>K<sup>Q</sup>V<sup>I</sup>G<sup>K</sup>N<sup>F</sup>---K<sup>D</sup>V<sup>A</sup>P<sup>C</sup>t<sup>D</sup>S<sup>P</sup>E<sup>F</sup>y<sup>g</sup>k<sup>f</sup>k<sup>e</sup>g<sup>v</sup>a<sup>s</sup>gn<sup>I</sup>n<sup>t</sup>m<sup>F</sup>e<sup>y</sup>t<sup>f</sup>d<sup>y</sup>q<sup>m</sup>t<sup>p</sup>t<sup>k</sup>v<sup>k</sup>v<sup>h</sup>m<sup>k</sup>k<sup>a</sup>l<sup>s</sup>g<sup>d</sup>s<sup>y</sup>w<sup>v</sup>f<sup>v</sup>k<sup>r</sup>v-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.93 (Å)  -----G<sup>I</sup>FF<sup>P</sup>A-----L<sup>E</sup>Q<sup>N</sup>M<sup>M</sup>G<sup>A</sup>V<sup>L</sup>I<sup>N</sup>E<sup>N</sup>D<sup>E</sup>V<sup>M</sup>F<sup>F</sup>N<sup>P</sup><sup>A</sup>E<sup>K</sup>L<sup>W</sup>G<sup>Y</sup>K<sup>R</sup>E<sup>E</sup>V<sup>I</sup>G<sup>N</sup>N<sup>I</sup>D--M<sup>L</sup>I<sup>P</sup>r<sup>d</sup>L<sup>R</sup>P<sup>A</sup>-H<sup>P</sup>E<sup>Y</sup>I<sup>r</sup>H<sup>N</sup>R<sup>E</sup>-----R<sup>E</sup>L<sup>Q</sup>L<sup>E</sup>K<sup>K</sup>D<sup>G</sup>S<sup>K</sup>I<sup>W</sup>T<sup>R</sup>F<sup>A</sup>L<sup>S</sup>K<sup>V</sup>S<sup>A</sup>E<sup>G</sup>K<sup>V</sup>Y<sup>L</sup>A<sup>L</sup>V<sup>R</sup>D--h  mehvafgsED<sup>I</sup>ENT<sup>I</sup>A<sup>k</sup>m<sup>d</sup>d<sup>g</sup>q<sup>L</sup>D<sup>G</sup>L<sup>A</sup>F<sup>G</sup>A<sup>I</sup>Q<sup>L</sup>D<sup>G</sup>D<sup>G</sup>N<sup>I</sup>L<sup>O</sup>Y<sup>N</sup>A<sup>E</sup>G<sup>D</sup>I<sup>V</sup>C<sup>R</sup>D<sup>P</sup>K<sup>Q</sup>V<sup>I</sup>G<sup>K</sup>N<sup>F</sup>F<sup>k</sup>D<sup>V</sup>A<sup>P</sup>C--T<sup>D</sup>S<sup>P</sup>e<sup>F</sup>Y<sup>G</sup>K<sup>F</sup>K<sup>E</sup>G<sup>V</sup>A<sup>s</sup>gn<sup>I</sup>n<sup>t</sup>m<sup>F</sup>E<sup>Y</sup>T<sup>F</sup>D<sup>Y</sup>-Q<sup>M</sup>T<sup>P</sup>T<sup>K</sup>V<sup>K</sup>V<sup>H</sup>M<sup>K</sup>K<sup>A</sup>L<sup>S</sup>--G<sup>D</sup>S<sup>Y</sup>W<sup>V</sup>F<sup>V</sup>K<sup>R</sup>v-</p>

87	<p>1v9yA (103)</p> <hr/> <p>1d7eA (119)</p>	N	16.50	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.05 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RLELQLEKKDgSKIWTRFALSIVSaegkvYLLALVRD-  -vafgsedientIakmDdGQLDGLAFGAIQLDGDGNILQYNAEAGDITGRDPKQVIGKNFFkdVAPC--TDSPEFYGKfKEGVAsgnIntmFYTFDYQM-TPTKVKVHMKKAL-----SIIWVFKRv</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=5.75 (Å)  gif-----FPALQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPrdLRPAHPEYIRHNRERELQLEKKDgSKIWTRFALSIVSaegkvYLLAL-vrd  ---vafgsedientIakmDdGQLDGLAFGAIQLDGDGNILQYNAEAGDITGRDPKQVIGKNFFkdvaPCTDSPEFYGKfKEGVASGNLNTMFEYTFYQMTPTKVKVHMKKALSIIWVFKRv---</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaleqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliPRdLRPA--HPEY-----irhnrerelqlekkdgskiwtrfalskvsaeqkvyyllalvrd  -----vafgsedientIakmddgqldglafgAIQLDGDGNILQYNAEAGDITGRDPKQVIGKNFF----KIVAPCtdSPEfygkfkegvasgnIntmfeytdyqmtptkvkvhmkkalsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=2.12 (Å)  G-----IFFP-A-----LEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RLELQLEKKDgSKIWTRFALSIVSaegkvYLLALVRD-h  VafgsedientIakmddgqldglafgAIQLDGDGNILQYNAEAGDITGRDPKQVIGKNFFkdVAPC--TDSPEFYGKfKEGVAsgnIntmFYTFDYQM-TPTKVKVHMKKAL-----SIIWVFKRv-</p>
88	<p>1lgqA (112)</p> <hr/> <p>1gxcA (116)</p>	C	24.11	<p><b>TM-align:</b> aliSize=70 (resi) RMSD=2.32 (Å)  mqPWGRLLRGAEEgEPHVLLRKRREWTIGRRRGDLSP-----S-----NKLVSgDfCRIVVDE---KSGOVLEDTSTSGTVINKLKvkkqtcpLqtgdviylvyrknepehnvaylyesls-----  --PWARLWALQDQ--FANLECVNDNYWFGGRDKSEYCFdepl1krtdkyRTYSKKfFRfREVgpkNSYIAYIEDHSGNGTFVNT-----elvgkgkrrplnnseialslnkvfvfdltvd</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=12.95 (Å)  mqpwg--RLRLGAEeEPHVLLRKRREWTIGRRRGDLSPsN-----KLVSGDfCRIVV-DEKSG--QVLEDTSTSGTVINKLKvkkqtcpLqtgdviylvyrknepehnvaylyesl--s  -----pwARLWALQD--FANLECVNDNYWFGGRDKSEYCFdepl1krtdkyRTYSKKfFRfREVgpkNSYIAYIEDHSGNGTFVNTelvgkgkrrplnnseialslnkvfvfdltvd</p> <p><b>BLAST:</b> aliSize=49 (resi) iden=28.57% (32/112) simi=43.75% (49/112)  mqPWGRLLRgaEEEPHVLLRKRREWTIGRRRGDLSP-----SNK--LVSGDfCRIVV-DEKSGOVT-LEDTSTSGTVINKLKvkkqtcpLqtgdviylvyrknepehnvaylyesls  --PWARLWALQD--FANLECVNDNYWFGGRDKSEYCFdepl1krtdkyRTYSKKfFRfREVgpkNSYIAYIEDHSGNGTFVNTelvgkgkrrplnnseialslnkvfvfdltvd-----</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.75 (Å)  mqPWGRLLRGA--eegEPHVLLRKRREWTIGRRRGDLSP-----S-----NKLVSgDfCRIVVDE---KSGOVLEDTSTSGTVINKLKvkkqtcpLqtgdviylvyrknepehnvaylyesls--  --PWARLWALQDgf---ANLECVNDNYWFGGRDKSEYCFdepl1krtdkyRTYSKKfFRfREVgpkNSYIAYIEDHSGNGTFVNTelvgkgkrrplnnseialslnkvfvfdltvd</p>
89	<p>1lgqA (112)</p> <hr/> <p>1dmzA (158)</p>	C	16.96	<p><b>TM-align:</b> aliSize=72 (resi) RMSD=2.90 (Å)  -MQPWGRLLRGAeeg---EPHVLLR--KREWTIGRRRGDLSPsNKLVSgDfCRIVVDEK-----SGOVLEDTSTSGTVINK-----Lkvkkqt-----Cplqtgdviylvyrknepehnvaylyesls-----  gNGRFLTKPDPD---siiQESLEIQqgVNPFFIGRSEDNCKIE-DNRLSRVfCFfFKKRHavgksmyespaqgLDDIWYCHGTNVSYLNNRmiqgkflIQ-----dgdeikiwdknnkfvigfkveindtglfneglmlqeQ-----rvvlkqtAE</p> <p>-----  ekdlvkk1</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=16.86 (Å)  mqpw-----GRRLGAEeEPHVllrkrewtIGRRRGDLSPsNKLVSgDfCRIVVDEKsGOVLEDT--STS--TVINKL-----VVKKOTCP--TIDVLYVYRknePEHNvaylyesl-----ls  ---gngfrl1tkplpdsiiqESIEIQQ---VNPFF-----FGRSEDNCKIE-DNRLSRVfCFfFKK--RHAVGKSMYESPAGLDDIWYCHgtgnvsylhnnrMIQGTkFLQDGEIKIWD---KNNKFVIGFKVeindtglfneglmlqeQrvvlkqtAEekdlvkk1--</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=21.43% (24/112) simi=34.82% (39/112)  mqpwgrllrlgaeegepHVllrkrewt-----IGRRRGDLSPsNKLVSgDfCRIVVDE---KSGOVTLEDT-----ISTSGTVINKLVKKOTCP--TIDVLYVYRknepehnvaylyesls  -----gngfrl1tkplpdsiiqesleiqqgnpffIGRSEDNCKIE-DNRLSRVfCFfFKK--RHAVGKSMYESPAGLDDIWYCHgtgnvsylNNRMIOGTkFLQDGEIKIWD---KNNKFVIGFKVeindtglfneglmlqeQrvvlkqtAEekdlvkk1-----</p> <p>nvaylyesls  -----</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=2.14 (Å)  m--QPWGRLLRGA--eegEPHVLLR--KREWTIGRRRGDLSPsNKLVSgDfCRIVVDEKs-----GOVLEDTSTSGTVINKLVKKOTCP--TIDVLYVYRknepehnvaylyesl--S-----  -gnGRFLTKPDPDsii--QESLEIQqgVNPFFIGRSEDNCKIE-DNRLSRVfCFfFKK--RHAVGKSMYESPAGLDDIWYCHgtgnvsylNNRMIOGTkFLQDGEIKIWD---KNNKFVIGFKVeindtglfneglmlqeQrvvlkqtAEekdlvkk1</p>

90	1lgqA (112)	C	24.11	<p><b>TM-align:</b> aliSize=71 (resi) RMSD=2.46 (Å)  M-QPWGRLLRLAeeGEPHVLLR-KREWITIGRRRCDSLFPSP---NKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKvkkqtcpqtgdviylvyrknepehnvaylyesls-----  gssgssgvtgdrAgGRSWCRRVGM--SAGWLLLEdGCEVTVGRGFVTVYQLVskicPLMISRHCVLKQN-PEGQWIMDNKSLNGLVWLNRR-----arleprrvsihgdyiqlgvplnkenaeyeyevtedwetiyplspksgpssg</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=12.95 (Å)  mqpwg-----RLLRLAEEGEPHVLLRKRrEWITIGRRRCDSLFPSP---PSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKKQTCPLQTCGDVYIYVYRKNEP---HNVAIYLYE-----sls  -----gssgssgvtgdragrswCRRVGMsAGWLLLEDGCEVTVGRGFVTVYQLVskicPLMISRHCVLKQNPEGQWIMDNKSLNGLVWLNRRARLEPLRVYSIHQGDYIQLGVPLENKnaEYEVETEdwetiyplspksgpssg---</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=28.57% (32/112) simi=48.21% (54/112)  mqpwgr-----LRLAEEepHVLLRKRrEWITIGRRRCDSLFP-SNK----LVSGDHCRIIVVDEKSGQVILEDT-STSGTVINKIKVKKQTCPLQTCGDVYIYVYRKNEPEHNVAIYLYE-----sls  -----gssgssgvtgdragrswCRRVGMsAGWLLLEDGCEVTVGR--FGVTVYQIVSkiCPLMISRHC-VLKNPEGQWIMDNKSLNGLVWLNRRARLEPLRVYSIHQGDYIQLGVPLEN--KENAEYEVETEdwetiyplspksgpssg---</p> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=1.89 (Å)  mq-----PwGRLLRLAeeGEPHVLLR-KREWITIGRRRCDSLFPSP---NKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKK-QTCPLQTCGDVYIYVYR---kNEPeHNVAIYLYESL-----s  --gssgssgvtgdragrS-WCRRVGM--SAGWLLLEdGCEVTVGRGFVTVYQLVskicPLMISRHCVLKQN-PEGQWIMDNKSLNGLVWLN-RARLEPLRVYSIHQGDYIQLGVPlen-KEN-AEYEVETEdwetiyplspksgpssg-</p>
	2cswA (145)			
91	1lgqA (112)	C	28.00	<p><b>TM-align:</b> aliSize=71 (resi) RMSD=2.75 (Å)  m-QPWGRLLRL-GAEEGEPHVLLRKRREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKvkkqtcpqtgdviylvyrknepehnvaylyesls-----  -mWTRRLVTIKRSGVDGPHFP-SLSTCLFGRGIECDIRI-QLPVVSKQHCKIEIHE--QEAIIHNFSTNPQVNG-----S-----videpvrkkgdvtiidsrfryene</p> <p><b>SARST:</b> aliSize=87 (resi) RMSD=11.85 (Å)  mqpwgrllr-----LGAEEGepHVLLRKRREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKKQTCPLQTCGDVYIYVYRKNEPEHNVAIYLYE-sls  -----mwptrrlvtikrSVDG--PHFP-SLSTCLFGRGIECDIRI-QLPVVSKQHCKIEIHEQ--EAIHNFSTNPQVNGSVIDEPVRLKHGDVIT-----IIDRSFRYENe---</p> <p><b>BLAST:</b> aliSize=46 (resi) iden=29.00% (29/100) simi=46.00% (46/100)  QPWGRLLRL--GAEEGepHVLLRKRREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKKQTCPLQTCGDVYIYVYR-----knepehnvaylyesls  -mWTRRLVTIKRSGVDG-PHFP-SLSTCLFGRGIECDIRIQL-PVVSKQHCKIEIHEQEA-ILHNFSTNPQVNG-SVI-DEPVRKKHGDVITIIDRSfryene-----</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=1.98 (Å)  m-QPWGRLLRLGA--EEGepHVLLRKRREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-ST-SGTVINKIKVKKQTCPLQTCGDVYIYVYRKNEPEHNVAIYLYESLS  -mWTRRLVTIKRSGVDG-PHFP-SLSTCLFGRGIECDIRI-QLPVVSKQHCKIEIHE--QEAIIHNFSTNPQVNGSVIDEPVRLKHGDVITIIDRSFRYENE-</p>
	1r21A (100)			
92	1lgqA (112)	C	21.43	<p><b>TM-align:</b> aliSize=67 (resi) RMSD=2.36 (Å)  m-----QPWGRLLRLGAeeG---EPHVLLR-KREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKvkkqtcpqtgdviylvyrknepehnvaylyesls-----  -gssgssgmvtPSLRLVFKG---preGDALDYKpGSTIRVGRIVRgNEIAI-KDAGISTKHLRLESIS--GNWVIOQLgSNGTLLNS-----naldpetsvnlgdgdvklgeytsilvnfvsgpssg</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=14.13 (Å)  mqpw-----GRLRLAEEGEPHVLLRKRREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKKQTCPLQTCGDVYIYVYRKNEPehNVAYLYES-----ls  ---gssgssgmvtPSLRLVFKGpreGDALDYKpGSTIRVGRIVRgNEIAIK-----DAGISTKHLRLESIS--GNWVIOQLgSNGTLLNSALDPETSvNIGGDVILK---LGEY---TSIIVNFvsgpssg--</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=19.64% (22/112) simi=33.04% (37/112)  mqpwgrllrlgaegephvllrkrewt-----IGRR-RCDLSFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKKQTCPLQTCGDVYIYVYRKNEPEHNVAIYLYESLS  -----gssgssgmvtPSLRLVFKGpreGDALDYKpGSTIRVGRIVRgNEIAI-KDAGISTKHLRLESIS--GNWVIOQLgSNGTLLNSALDPETSvNIGGDVILKgeytsilvnfvsgpssg-----</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=1.70 (Å)  mq-----PWGRLLRLGA--AeeGEPHVLLR-KREWITIGRRRCDSLFPpSNKLVSGDHCRIVVDEKSGQVILEDT-STSGTVINKIKVKK-QTCP-QTCGDVYIYVYRKNEPEHNVAIYLYESLS-----  --gssgssgmvtPSLRLVFKGpreE--GDALDYKpGSTIRVGRIVRgNEIAI-KDAGISTKHLRLESIS--GNWVIOQLgSNGTLLNSALDPETSvNIGGDVILKgeytsilvnfvsgpssg</p>
	1uhtA (118)			

93	<p>1lgqA (112)</p> <hr/> <p>2jpeA (132)</p>	C	17.86	<p><b>TM-align:</b> aliSize=73 (resi) RMSD=2.85 (Å)  -----MQPWGRLLRLGAE-EGEPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  maaavnsgsslplfdcptwagkPPGLHLDVVKG-dKLEKLIIdEKKYLFGRNPDI CDFTI-DHQSCRVAALVYHKLKRVFIIdLnSTHGTFLGHl-----rlephkqqipidstvsfgastraytlrekpqt</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=12.50 (Å)  m-----QWGRLLRLGAE-EGEPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  -maaavnsgsslplfdcptwagkPPGLHLDVVKGDKLIIdEKKYLFGRNPDLCDFTIDHQSCRVAALVYHKLKRVFIIdLnSTHGTFLGHlRLEPHKPOQIPIDS---TVSF-GASTRAYTLREKpqt--</p> <p><b>BLAST:</b> aliSize=35 (resi) iden=17.86% (20/112) simi=31.25% (35/112)  mqpwgrllrlgaeeg-----EPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  -----maaavnsgsslplfdcptwagkpppglhldvvgdkliIdEKKYLFGRNPDI CDFTI-DHQSCRVAALVYHKLKRVFIIdLnSTHGTFLGHlRLEPHKPOQIPIDS tvsfgastraytlrekpqt-----</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=2.27 (Å)  -----M-QWGRLLRLGAE-EGEPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  maaavnsgsslplfdcptwagkPPGLHLDVVKGDKLIIdEKKYLFGRNPDLCDFTI-DHQSCRVAALVYHKLKRVFIIdLnSTHGTFLGHlRLEPHKPOQIPIDSTVSFGA-----STRAYTLREKpqt</p>
94	<p>1lgqA (112)</p> <hr/> <p>1wlnA (120)</p>	C	14.29	<p><b>TM-align:</b> aliSize=70 (resi) RMSD=2.36 (Å)  -----MQPWGRLLRLGAE-EGEPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  gssgssGPeKLPYlVElSpdgsdSRDKPKLYRQLSVTEVTEKFDnSIQLF-GPGIQPHGCDLTNMD--GVVTVTPRMDAETVYVDG-----rissetmlqsgmrlqfgtshvfkfvdpsgpgssg</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=12.25 (Å)  mqpw-----GRLRLGAE-EGEPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  ---gssgssGPeKLPYlVElSpdgsdSRDKPKLYRQLSVTEVTEKFDnSIQLF-GPGIQPHGCDLTNMD--GVVTVTPRMDAETVYVDGQRISETMLQSGMRLQ---FGTS---HVFVKFVDPsgpgssg-</p> <p><b>BLAST:</b> aliSize=19 (resi) iden=9.82% (11/112) simi=16.96% (19/112)  mqpwgrllrlgaeegephvllrkrewtigrrrgcdlsfnsnkvlsgd-----HCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvayl  -----gssgssGPeKLPYlVElSpdgsdSRDKPKLYRQLSVTEVTEKFDnSIQLF-GPGIQPHGCDLTNMD--GVVTVTPRMDAETVYVDGQRISETMLQSGMRLQ---FGTS---HVFVKFVDPsgpgssg-----  yesls  -----</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.97 (Å)  -----MOPWGRLLRLGAE-EGEPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  gssgssGPeKLPYlVElSpdgsdSRDKPKLYRQLSVTEVTEKFDnSIQLF-GPGIQPHGCDLTNMD--GVVTVTPRMDAETVYVDGQRISETMLQSGMRLQ---FGTS---HVFVKFVDPsgpgssg</p>
95	<p>1lgqA (112)</p> <hr/> <p>2g11A (103)</p>	C	17.48	<p><b>TM-align:</b> aliSize=70 (resi) RMSD=2.78 (Å)  mqPWGRLLRLGAEeg-----EPHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  --STPHLVNINEDP-lmseCLLYHIKDGVTTRVGDMDIKL-TGQFIREQHCLFRSIPQDgeVVVTLPECEGAETVYVNG-----K-----lvteplvlksgnrivmgnhvfrrfnh</p> <p><b>SARST:</b> aliSize=75 (resi) RMSD=15.48 (Å)  mqpwgrllrlgaeegeph-----VLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  -----stphlvlnedplmsecllyhiKDGVTTRVGDMDIKL-TGQFIREQHCLFRSIPQDgeVVVTLPECEGAETVYVNGKLVTEplvlksgnrivmgnhvfrrfnh---</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=16.50% (17/103) simi=29.13% (30/103)  mqpwgrllrlgaeegephvllrkrewtigrrrgcdlsf-----SNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  -----stphlvlnedplmsecllyhiKDGVTTRVGDMDIKL-TGQFIREQHCLFRSIPQDgeVVVTLPECEGAETVYVNGKLVTEPLV-LKSNRILVMGK---HVFRRFNH-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=1.75 (Å)  mqp-WGRLLRLGAE-----egePHVLLRKREWTIGRRRGCDLSFpSNKLVSGDHCRIVVEKSGQVTELEDTSTSGTVINKLkvvkkqtcplqtgdviylvyrknepehnvaylyesls-----  ---STPHLVNINEDplmsecllyhiKDGVTTRVGDMDIKL-TGQFIREQHCLFRSIPQDgeVVVTLPECEGAETVYVNGKLVTEPLV-LKSNRILVMGK---HVFRRFNH---</p>



96	<p>1lgqA (112)</p> <p>2pieA (132)</p>	C	24.11	<p><b>TM-align:</b> aliSize=72 (resi) RMSD=2.74 (Å)  m-----QPWGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---NKLVS GDHCRI VVDeKSGQVLEDT-STSGTVI NK-----Lkvkqtcplqtgdviylvyrknepehnvaylyesls-----  -gahmagrswcLRVGM--SAGWLLedGCEVTVGRGFVTVYQLVskicPLMISRHCVLKQN-PEGOWITMDNkSLNGVWLNARleplrvysihqGD-----yiqlgvplnenaeyeyevteedwetiypclspkn-----</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=11.32 (Å)  mqpwg-----R LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---PSNKLVS GDHCRI VVDeKSGQVLEDT-STSGTVI NKLVKVKQTCPLOTGD-VIYLVRKN-----epehnvaylyesls  -----gahmagrswcLRVGM--SAGWLLedGCEVTVGRGFVTVYQLVskicPLMISRHCVLKQN-EGOWITMDNkSLNGVWLNARleplrvysihqGDyIQLGVPLENkenaeeyevteedwetiypclspkn-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=28.57% (32/112) simi=48.21% (54/112)  mqpwgr-----R LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP-SNK-----LVSGDHCRI VVDeKSGQVLEDT-STSGTVI NKLVKVKQTCPLOTGDVIYL-VYRKNepEHNVA LLYE-----sls  -----gahmagrswcLRVGM--SAGWLLedGCEVTVGRGFVTVYQLVskicPLMISRHC-VLKQNPEGOWITMDNkSLNGVWLNARleplrvysihqGDyIQLGVPLEN--KENAEYEevteedwetiypclspkn---</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=2.02 (Å)  mq-----PwGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---NKLVS GDHCRI VVDeKSGQVLEDT-STSGTVI NKLVKVK-OTCPLOTGDVIYLVR--kNEPHNVA LLYESL-----s  --gahmagrS-WcLRVGM--SAGWLLedGCEVTVGRGFVTVYQLVskicPLMISRHCVLKQN-PEGOWITMDNkSLNGVWLNARleplrvysihqGDyIQLGVPLEN--KENAEYE EVTEEdwetiypclspkn-</p>
97	<p>1lgqA (112)</p> <p>2eh0A (130)</p>	C	18.75	<p><b>TM-align:</b> aliSize=76 (resi) RMSD=3.06 (Å)  m-----QPWGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---NKLVS GDHCRI VVDeKSGQVLEDT-STSGTVI NK-----Lkv-----VKkqtcplqtgdviylvyrknepehnvaylyesls  -gssgsSGTPhVNLnEDPLMseCLLYYIKDGI TRVQADaerRQIVL-SGAHIKEEHCIFRSERSNsgeVITLEPCERSEYVNGKrvsqvqlrsGN-riimgknhvfrfnhpeqaraarektsgpsSG-----</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=11.88 (Å)  mq-----PWGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---SNKLVS GDHCRI VVDeKSGQVLEDTSTSGTVI nkLkvkqtcplQOTGDVIYLVRKN-----EPEHNVA LLYE-----sls  --gssgsSGTPhVNLnEDPLMseCLLYYIKDGI TRVQADaerRQIVL-SGAHIKEEHCIFRSERSNsgeVITLEPCERSEYVNGKRV-SQPVQLrsgnrriimgknhvfrfnhpeqaraarektsgpsg---</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=20.54% (23/112) simi=30.36% (34/112)  mqpwgrllrlgaegephvllrkrewtigrrrgcdlsfpsnkl-----VSGDHCRI VVDeKSGQVLEDTSTSGTVI NKLVKVKQTCPLOTGDVIYL-VYRKNepEHNVA LLYE-----hnvaylyesls  -----gssgsgtphvnlndplmsecllyyikdgitrvqadaerRQIVLsgahiKEEHCIFRSERSNsgeVITLEPCERSEYVNGKRV-SQPVQLrsgnrriimgknhvfrfnhpeqaraarektsgpsg-----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.94 (Å)  mq-----PWGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---SNKLVS GDHCRI VVDeKSGQVLEDTSTSGTVI NKLVKVK-OTCPLOTGDVIYLVRknepehnVAYLYESLS-----  --gssgsgtphvnlndplmsecllyyikdgitrvqadaerRQIVL-SGAHIKEEHCIFRSERSNsgeVITLEPCERSEYVNGKRV-SQPVQLrsgnrriimgknhvfrfnhpeqaraarektsgpsg</p>
98	<p>1lgqA (112)</p> <p>1yj5C (105)</p>	C	16.19	<p><b>TM-align:</b> aliSize=68 (resi) RMSD=3.54 (Å)  mq--PWGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---SNKLVS GDHCRI VVDeKSGQVLEDTSTSGTVI NK-----Lkvkqtcplqtgdviylvyrknepehnvaylyesls-----  --srgRLWQSP-TG-GPPPIFLPSdgQALVLRGP---ITQVTDKCSRNOVELIADPEsRTAVKQLGVNPSTVGV-helkpglsgsls-----lgdvlvnglypltlrweels-----</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=14.23 (Å)  mqpw----GRLRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---SNKLVS GDHCRI VVDeKSGQVLEDTSTSGTVI NKLVKVKQTCPLOTGDVIYLVRKNepHNVA LLYESL--s  ----srgRLWQSP-TG-GPPPIFLPSdgQALVLRGP---ITQVTDKCSRNOVELIADPEsRTAVKQLGVNPSTVGVHELKPGLSGS-SLGDVLYLNGLY----PLTLRWEELs-</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=19.05% (20/105) simi=37.14% (39/105)  mqpw--GRLRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---SNKLVS GDHCRI VVDeKSGQVLEDTSTSGTVI NKLVKVKQTCPLOTGDVIYLVRKNepHNVA LLYESL--s  ----srgRLWQSP-TG-GPPPIFLPSdgQALVLRGP---ITQVTDKCSRNOVELIADPEsRTAVKQLGVNPSTVGVHELKPGLSGS-SLGDVLYLNGLYpltlrweels-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.48 (Å)  mq--PWGR LRLGAEeGEPHVLLRKRrEWtIGRRRCDLSFP---SNKLVS GDHCRI VVDeKSGQVLEDTSTSGTVI NKLVKVK-OTCPLOTGDVIYLVRknepehnVAYLYESLS--  --srgRLWQSP-TG-GPPPIFLPSdgQALVLRGP---ITQVTDKCSRNOVELIADPEsRTAVKQLGVNPSTVGVHELKPGLSGS-SLGDVLYLNGLYpltlrweels</p>

99	1lgqA (112)	C	15.18	<p><b>TM-align:</b> aliSize=65 (resi) RMSD=3.11 (Å)  mq-----PWGRLLRLgAEeE-HVLLRK-R-EWTIGRRRgcdSFP SNKLVSGDHCRIVVDEKSGQ--TLEDTSTSGTVINKLkvvkkqtcpqltgdviylvrknepehnvaylyesls-----  --gssgssgmsqlgsrGRLWQSP-TG-PPPIFIPSDGqALVLRGP---TQVTDKRCRNQVELIADP--ESrtAVKQLGVNPSTVGV-----qelkpglsgslsgdvllylvglypltlrwsgpssg</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=13.20 (Å)  mqpw-----GRLRLAEEGEPHVLLRrEWITIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRKNepohnVAYLYES-----ls  ----gssgssgmsqlgsrgrlWLOSPTPGPPPIFLPSDGO-ALVLRGPLTQV---TDRKCSRNOVELIADPESRTAVKQLGVNPSTVGVQELKPGLSGSLSLGDVLYLNGLY----PLTRWSgpssg--</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=17.86% (20/112) simi=34.82% (39/112)  mqpw-----GRLRLAEEGEPHVLLRrEWITIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRKNepohnvaylyesls  ----gssgssgmsqlgsrGRLWLOSPTPGPPPIFLPSDGOALVLRGP-PLTQVTDKRCRNQVELIADPESRTAVKQLGVNPSTVGVQELKPGLSGSLSLGDVLYLNGLYpltlrwsgpssg-----</p> <p><b>Proposed:</b> aliSize=92 (resi) RMSD=2.29 (Å)  mq-----PWGRLLRLgAEeE-HVLLRK-R-EWTIGRRR-gcdS-FpSNKLVSGDHCRIVV-ekSG-QVLEDTSTSGTVINKLKVVK-KQTCPTQTDVIVLYVRknepehNVAYLYESL-----s  --gssgssgmsqlgsrGRLWQSP-TG--Gp-PPPIFIPSDGqALVLRG-Gp---TQV-TDRKCSRNOVELIADp--ESrtAVKQLGVNPSTVGVQELKpGLSGSLSGDVLYLNG-----LYPLTRWSgpssg-</p>
100	1lgqA (112)	C	24.11	<p><b>TM-align:</b> aliSize=70 (resi) RMSD=3.03 (Å)  genitqptqstqatqrfliedfsqeqigenIVCRVICTTG----qIPTRDSADISqvlkekrsikKVVTFGRNPACDYHLGNI SRLSNKIFOLLG-EDNLLNDI STNGTWLNGQKvcknsnqlsqG-----Lkvvkkqtcpqltgdviylvrknepehnvaylyesls-----deitvvgvesdilsivifin  -----  dkfkqcleqnkvdrir</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=13.46 (Å)  mqpwgrllrlgaegephvllrkr-----EWTIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRKNepohnVAYLYES-----ls  -----genitqptqstqatqrfliedfsqeqigenivcrvicttgqipirdlsadISqvlkekrsikKVVTFGRNPACDYHLGNI SRLSNKIFOLLG-EDNLLNDI STNGTWLNGQKVEKNSNQLSQDEIT--VGVGVESDILSLVIFIndkfkqcleqnkvdrir--</p> <p><b>BLAST:</b> aliSize=35 (resi) iden=23.21% (26/112) simi=31.25% (35/112)  mqpwgrllrlgaegephvllr-----EWTIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRKNepohnvaylyesls  -----genitqptqstqatqrfliedfsqeqigenivcrvicttgqipirdlsadISqvlkekrsikKVVTFGRNPACDYHLGNI SRLSNKIFOLLG-EDNLLNDI STNGTWLNGQKVEKNSNQLSQDEITvvgvesdilsivifindkfkqcleqnkvdrir--</p> <p>yrknepehnvaylyesls  -----</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=2.41 (Å)  m-----OPWGRLLRLGA--eegE-HVLLRK-----REWTIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRknepehNVAYLYESLS-----  --genitqptqstqatqrfliedfsqeqigenIVCRVICTTGqi----IPTRDSADISqvlkekrsikKVVTFGRNPACDYHLGNI SRLSNKIFOLLG-EDNLLNDI STNGTWLNGQKVEKNSNQLSQDEITVGVG--VESDILSLVIFINDkfkqcleqnkvdrir</p>
101	1lgqA (112)	C	18.00	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=3.44 (Å)  mqPWGRLLRLgAEeGEHVLLRK--REWTIGRRRgcdSFP SNKLVSGDHCRIVVDEK-SGQVLEDTSTSGTVINKLkvvkkqtcpqltgdviylvrknepehnvaylyesls-----  --GRLWLESP-PG-EA-PPPIFIPSDGqALVLRGP---TQVTDKCSRTOVELIADP-ETRTAVKQLGVNPSTIGQ-----elkpglegs lvgdtylvnglhpltlrwee</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=13.22 (Å)  mqpw---GRLRLAEEGEPHVLLRrEWITIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRKNepohnVAYLYES-----s  ----grlWLESPP-PAEAPPFLPSDGOALVLRGP-PLTQV----TDRKCSRTOVELIADPETRTAVKQLGV-NPSTIGQELKPGLEGS-IGVGTLYLNGLH----PLTLRWEe---</p> <p><b>BLAST:</b> aliSize=41 (resi) iden=24.00% (24/100) simi=41.00% (41/100)  mqpwGRLRLAEEGEPHVLLRrEWITIGRRRGCDLsfpSNKLVSGDHCRIVVDEKSGQVLEDTSTSGTVINKLKVVKKQTCPTQTDVIVLYVRKNepohnvaylyesls  ----GRLWLESP-PAEAPPFLPSDGOALVLRGP-PLTQVTDKCSRTOVELIADPETRTAVKQLGVNPSTIGQELKPGLEGS--IGVGTLYLNGlhpltlrwee-----</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=2.37 (Å)  mqPWGRLLRLgAEeGEHVLLRK--REWTIGRRR-gcdS-FpSNKLVSGDHCRIVV-eksGQ--TLEDTSTSGTVINKLKVVK-KQTCPTQTDVIVLYVRknepehNVAYLYESLS  --GRLWLESP-PG--PA-PPPIFIPSDGqALVLRG-Gp---TQV-TDRKCSRTOVELIADp--ETrtAVKQLGVNPSTIG-QELKpGLEGS-IGVGTLYLNG-----LHPLTLRWE</p>
	2brfA (100)			

102	M	27.20	<p><b>2pfsA (125)</b></p> <p><b>TM-align:</b> aliSize=109 (resi) RMSD=1.97 (Å)  sVHHILLAVDFSSQVQVRNLSQIGARLSLHVLDtaipldtetty-----DALDVEKQKLSQIGNTL--GIdpaHRWLWVEPREEIRIAEQENVDLIVVGS-----S--TANSVLHYACDVLAVR---  -MYKHILLVAVDLSEESPIILLKKAAGIAKRHDAKLSIIHVLDV-----nfsdlytglidvnmsmqdRISTETQKALDLAESVDYPIIS--EKLSGSDLGQVLSDAIEQYVDLLMTCHqdfwskLmsSTROMNTIIDMLVVPird</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=6.62 (Å)  svy--HILLAVDFSSQVQVRNLSQIGARLSLHVLDTA--IPLDTETTYDALD-----VEKQKLSQIGNTLGIDPAHRWLWVEPREEIRIAEQENVDLIVVGS-----HSTANSVLHYACDVLAVR---1  ---myKHILLVAVDLSEESPIILLKKAAGIAKRHDAKLSIIHVLDVnfsdLYTGLIDVNMSSmqdrisTETQKALDLAESVDYPISEKLSGSDLGQVLSDAIEQYVDLLMTCHqdfwskLMSSTROMNTIIDMLVVPird-</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=33.33% (41/125) simi=55.28% (68/125)  sVHHILLAVDFSSQVQVRNLSQIGARLSLHVLD-----LDTA-IPLDTETTYDALDVEKQKLSQIGNTLGIDPAHRWLWVEPREEIRIAEQENVDLIVVGS-----S--TANSVLHYACDVLAVR---  -MYKHILLVAVDLSEESPIILLKKAAGIAKRHDAKLSIIHVLDVnfsdLYTGLIDVNMSSmqdrisTETQKALDLAESVDYPISEKLSGSDLGQVLSDAIEQYVDLLMTCHqdfwskLmsSTROMNTIIDMLVVPird</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=1.71 (Å)  msVHHILLAVDFSSQVQVRNLSQIGARLSLHVLDtA---iPLDTETTYDAML D-----VEKQKLSQIGNTL--GIdpaHRWLWVEPREEIRIAEQENVDLIVVGS-----S--TANSVLHYACDVLAVR---  --MYKHILLVAVDLSEESPIILLKKAAGIAKRHDAKLSIIHVLDVnfsdLYTGLIDVNMSSmqdrisTETQKALDLAESVDYPIIS--EKLSGSDLGQVLSDAIEQYVDLLMTCHqdfwskLmsSTROMNTIIDMLVVPird</p>
103	C	12.00	<p><b>2qntA (125)</b></p> <p><b>TM-align:</b> aliSize=58 (resi) RMSD=3.03 (Å)  nlyfqgrfvnpipfvrdirnrsksfyrdrlg--Lkiledfgsfvlf---ETGfaihegrsleetiwrtsqeyg-----RRNLLYFEHADVDAAFOIAPH--VELIHPLERQAWG-ORVFRFYDPDGHAEV  -----lyfqg-----gmtGRI-----vhfeipfdgdrarafyrdafgwaiaepdmDYSMTtGpvgesgmpdepyinggmqrgevtTPVVTVDVESIESALERIESlgKTVTGRTPV-GNmGFAAYTISEGNVGL</p> <p>GSL-  WTAr</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=14.09 (Å)  nlyf-----QGRFVNPIPFVRDIRNRSKSFYRDRLKLEDFGsfvlf---GFATHEgrsleetIWR-----TSSQFAYGRNLLYFEHADVDAAFOIA--PHVELIHPLERQAWGORVFRFYDPDGHAEVGS--1  ----lyfqgMTGRIVHFEIPFDGDARAFYRDAFGWAIAEIPDMDYSMTTGPVGV-----ESGmpdepyingGMMQRGEVTPVVTVDVESIESALERIESLGGKTVTGRTPVGNMGFAAYTISEGNVGLWETar-</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=17.89% (22/125) simi=23.58% (29/125)  nlyfQG-----RFVNPIPFVRDIRNRSKSFYRDRLKLEDFGsfvlf---GFATHEgrsleetiwrtsqeygrnlllyfehadvdaafqiaphvelihplerqaw  --lyfQgMTGRIVHFEIPFDGDARAFYRDAFGWAIAEIPDM-DYSMTTGPVgesgmpdepyinggmqrgevtTPVVTVDVESIESALERIESlggkvtgrtpvgnmgfaayftdsegnvvlwetar-----  qrvfrydpdghaievgesl</p> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=2.24 (Å)  nlyf-----QGRFVNPIPFVRDIRNRSKSFYRDRLKLEDFGsfvlf---GFATHEGR--sleetiwrtsqeygrnlllyfehadvdaafQdIAP--HVELIHPLERQAWGORVFRFYDPDGHAEVGS--1  ----lyfqgMTGRIVHFEIPFDGDARAFYRDAFGWAIAEIPDMDYSMTTtGpvgesgmpdepyingGMMQRGev-----TTPVVTVDVESIESALERIESlggkvtgrtpvgnmgfaayftdsegnvvlwetar-</p>
104	N	11.20	<p><b>2qntA (125)</b></p> <p><b>TM-align:</b> aliSize=61 (resi) RMSD=3.24 (Å)  nlyfQGRFVNPIPFVRDIRNRSKSFYRDRLKLEDFG-----SFVLFETGFAIHEGRS1--EETiwrTSS--OEAYGRrNlllyfehadvdaafaiaphvelihplerqawqrvfrfydpdghaievgesl-----  ----SLKVHHIGYAVKNDSALKKFK-RLGYVEESEVvrdevrkvYIQFVingGYRVELVAPDgedS---PINKtiKKGSTP-Y-----hicyevediaksieemsqiytlfkkaeiapaidnrkvafifstdigiellek</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=12.71 (Å)  nlyfqgr---FVNPIPFVRDIRNRSKSFYRDRLKLEDFG-----FGSFLVETGFAIHEG-----RSLIETIWRSSOEAYGRNLLYFEHADVDAAFOIAPH--VELIHPLERQAWG-ORVFRFYDPDGHAEVGS--s1  -----slkvHHIGYAVKNDSALKKFK-RLGYVEESEVvrdevrkvYIQFvINGGYRVELVapdgedsPINKTIKKGSTPYH-----ICYEVEIQKSIEMSQigyTLFKKAEIAPIDNRKVAFLFSTIIGLLELLEK--</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.88% (6/125) simi=7.32% (9/125)  nlyfqgrfvnpipfvrdirnrsksfyrdrlgkiledfgsfvlfetgfaihegrsleetiwrtsqeygrnlllyfehadvda-----slkvhhigavknidsalkkfkrlgyveesevvrdevrkvYIQFVinggyrvelvapdgedspinktikkgstpyhicyevediaksieemsqiytlfkkaeiapa</p> <p>-----AFQIAPHVELIHPLERQAWqrvfrfydpdghaievgesl  idnrkvAFLFSTDIIGLLELLEK</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.23 (Å)  nlyfQGRFVNPIPFVRDIRNRSKSFYRDRLKLEDFG-----SFVLFETGFAIHEGRS--leEtiwrT-SS--OEAYG-rnNLLYFEHADVDAAFO-dIAP-HVELIHPLERQAW--GORVFRFYDPDGHAEVGS1  -----SLKVHHIGYAVKNDSALKKFK-RLGYVEESEVvrdevrkvYIQFVingGYRVELVAPDged--S---PINKtiKKGSTP---YHICYEVEIQKSIEMSQIgyTLFKKAEIAPIDNRKVAFLFSTIIGLLELLEK-</p>

105	<p>2rbbA (129)</p> <hr/> <p>2r6uA (130)</p>	N	14.73	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.97 (Å)  nadlsyvniftrdivasafyqqv--Gfqeiesirspifrgld---TGKScigfnahe<b>ayelqlaqfsets</b>-----GIKFLLNFdvdTkeAVDKLVPVAIAAATLTKAPYETYYHWYQAVLLDPERNVFRINNVL-  -----lyfQ-----gmtGRIV-----hfeipddgdrarafyrdafgwaiaeipmdysmvtgpgvesgmpdepgynggmmq<b>rgevTTPVVTVDV</b>-E--SIESALERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETAr</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=14.61 (Å)  nad-----LSYVNIIFTRDIVASAFYQOV--GfQEiesirspifrgld---TGKScigfnahe<b>ayelQLAOF</b>-----SETSGIKF-----LLNFdvdTkeAVdklVPVAIAAATLTKAPYETYYHWYQAVLLDPERNVFRINNV--1  ---lyfqgmtgrIVHFEIPFDGDRARAFYRDAFGWAI--AEIPMDYSMVTTGP-----VGESGmpdepgYINGGMMQ<b>rgevtTPVVTVDV</b>ESISA---LERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETar-</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=7.94% (10/129) simi=11.11% (14/129)  nadlsyvniftrdiv-----SAPSYOOVFGFQETIESIRSPIFRGLDTG-----KSCIGFNAHE<b>ayelQLAOFSE</b>-----TSGIKFLLNFdvdTkeAVDKLVPVAIAAATLTKAPYETYYHWYQAVLLDPERNVFRINNVL-  -----lyfqgmtgrivhfeipddgdrARAFYRDAFGWAI--AEIPMDYSMVTTGPvgesgmpdepgynggmmq<b>rgevtTPVVTVDV</b>ESIESALERIESlggktvtgrtpvgnmgfaayftdsegnvvlwetar-----kscigfnahe<b>ayelqlaqfsets</b>gikfllnfvdvtkeavdklvp  vaiaagatlkapetyyyhwyqavlldpernvfrinnvl  -----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=2.08 (Å)  -----NMADLSYVNIIFTRDIVASAFYQOVFGFQETIESIR--SPIFRGLDTG-----KSCIGFNAHE<b>ayelqlaqfsets</b>gikfllnfvdvtkeAVDKLVPVAIAAATLTKAPYETYYHWYQAVLLDPERNVFRINNVL-  lyfqgMTGRIVHFEIPFDGDRARAFYRDAFGWAI--IPMDYSMVTTGPvgesgmpdepgYINGGMMQRGEV-----T-----TPVVTVDV--SIESALERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETAr</p>
106	<p>2rbbA (129)</p> <hr/> <p>2qh0A (129)</p>	C	10.08	<p><b>TM-align:</b> aliSize=67 (resi) RMSD=3.58 (Å)  NADLSYVNIIFTRDIVASAFYQOVFGFQETIESIRSP-----IFRGLDTGKSCIGFNAHE<b>AYELQLAOFSE-TSGIKFLLNF</b>fdvdtkeavdklvpvaiaagatlkapetyyyhwyqavlldpernvfrinnvl-----  SLKVHHIGYAVKNDSALKKFKR-LGYVEESE-VVRdevrkvYIQFVINGYRVELV<b>PDGEDS--PINKTIKKGSTPY</b>-----hicyevediQKSIEMSQIGYTLFKKAEIAPaidnrkvaflfstdigliellek</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=13.35 (Å)  na--DLSYVNIIFTRDIVASAFYQOVFGFQETIESIRSP-----IFRGLDTGKSCIGFNAHE<b>AYELQLAOFSE-TSGIKFLLNF</b>fdvdtkeAVDKLVPVAIAAATL--IKAPYETYYHWYQAVLLDPERNVFRINnVL  --s1KVHHIGYAVKNDSALKKFKRLGYveeseVVRdevrkvYIQFVINGYRVELV<b>PDGEDSPINKTIKKGSTPY</b>HICYE-VEDIQKSIEEMS---QIYTLFKKAEIAPaidnrkvaflfstdigliellek</p> <p><b>BLAST:</b> aliSize=46 (resi) iden=23.81% (30/129) simi=36.51% (46/129)  nad-----LSYVNIIFTRDIVASAFYQOVFGFQETIESIR-----SPIFRGLDTGKSCIGfnaHE<b>AYELQLAOFSE-TSGIKFLLNF</b>fdvdtkeAVDKLVPVAIAAATLTKAPYETYYHWYQAVLLDPERNVFRINNVL-  ---s1kvhhiGYAVKNDSALKKFKRLGYveeseVVRdevrkvYIQFVINGYRVELV<b>PDGEDSPINKTIKKGSTPY</b>-----HICYEVEDIQKSIEEMSQIGYTLFKKAEIAPaidnrkvaflfstdigliellek</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=2.05 (Å)  nMADLSYVNIIFTRDIVASAFYQOVFGFQETIESIRSP-----IFRGLDTGKSCIGFNAHE---aYelqlaqfsetsgikfllnfvdvtkeAVDKLVPVAIAAATLTKAPYETYY--HWYQAVLLDPERNVFRINNV1  -SLKVHHIGYAVKNDSALKKFKR-LGYVEESE-EVVRdevrkvYIQFVINGYRVELV<b>PDGEDS--PINKTIKKGSTPY</b>HICYEVEDIQKSIEEMSQIGYTLFKKAEIAPaidnrkvaflfstdigliellek</p>
107	<p>2p7oA (127)</p> <hr/> <p>2r6uA (130)</p>	C	13.39	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=3.99 (Å)  misglshittlivkdlnkttaflni--naeeiytfslskekffl---IAGLwicime<b>gdsIgc</b>-----RTYNHIAFOIOSseEVDEYTERKALGVEMKPEPRVOGERSIYYFDNHLFEHAGTleerlk  -----lyfQ-----gmtGRIV-----hfeipddgdrarafyrdafgwaiaeipmdysmvtgpgvesgmpdepgynggmmq<b>rgeVTTPVVTVDV</b>ESIESALERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETAr-----</p> <p>ryh  ---r</p> <p><b>SARST:</b> aliSize=114 (resi) RMSD=13.53 (Å)  misg-----SHTLIVKLNKTTAFNLONINAAEIIYTFSLSEKFFLI-----AGLWICIME<b>GDSLOERTY</b>NHIAFOIOSseEVDEYTERKALGVEMKPEPRVOGERSIYYFDNHLFEHAGTleerlkryh  ---lyfqgmtgrIVHFEIPFDGDRARAFYRDAFGWAI--AEIPMDYSMVTTGPvgesGMPDEPGYINGGMMQ<b>rgevtTPVVTVDV</b>ESIESALERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETAr-----</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=11.81% (15/127) simi=21.26% (27/127)  misglshittlivkdlnkttaflninaeeiytfslskekffliaglwici-----ME<b>GDSLOERTY</b>NHIAFOIOSseEVDEYTERKALGVEMKPEPRVOGERSIYYFDNHLFEHAGTleerlk  -----lyfqgmtgrivhfeipddgdrarafyrdafgwaiaeipmdysmvtgpgvesgmpdepgYINGGMMQRGEVTPVVTVDVESIESALERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETAr-----</p> <p>kryh  ----</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=2.07 (Å)  -----MISGLSHITLIVKLNKTTAFNLONINAAEIIYTFSLSEKFFLI-----AGLWICIME<b>gdsIgc</b>-----RTYNHIAFOIOSseEVDEYTERKALGVEMKPEPRVOGERSIYYFDNHLFEHAGTleerlkryh  lyfqgMTGRIVHFEIPFDGDRARAFYRDAFGWAI--AEIPMDYSMVTTGPvgesgmpdepgYINGGMMQRGEV-----TTPVVTVDV--SIESALERIESLGKTVTGRTPVGNMGFAAYFTDSEGNNVGLWETAr-----</p>

108	<p>2p7oA (127)</p> <p>2qh0A (129)</p>	N	11.81	<p>TM-align: aliSize=61 (resi) RMSD=2.29 (Å)  MSGLSHTLIVKDLNKTAFLONI FNAEFLY--TFS---LSKEKFLIAGLWTCIMEG-----DS-LOErivnhiafaiqseevdevterikalgvemkpernrsvagegrsivvdfDNHLfelhagtleerlkryh-----  SL-KVHHTGYAVKNDISALKKFKRL-LGYVVESevVRDevrKVYIQVINGGYRVELVAPDgedspinktkk-----GSTP-----yhicyevediqksiemsqiytlfkkaeiapaidnrkvafllfstdigli</p> <p>-----  ellek</p> <p>SARST: aliSize=107 (resi) RMSD=13.76 (Å)  misg---LSTLIVKDLNKTAFLONI FNAEFLY--TFS---LSKEKFLIAGLWTCIMEGDSL-----OERTYNHIAFOIQSEFvdeyTERIKALGVEMKPERPRVQ---GGRSIFYYDFNHFEH--agtleerlkryh  ----sLkVHHTGYAVKNDISALKKFKRLGyveESVVRDEVKRVYIQVINGGYRVELVAPDgedspinktkkGSTPYHICYEVEDIQK----SIEEMSQIGYTLFKKAEIAPAIDNRKVAFLFSTIGIIELEK-----</p> <p>BLAST: aliSize=53 (resi) iden=22.05% (28/127) simi=41.73% (53/127)  misgls-----LSTLIVKDLNKTAFLONI FNAEFLY--TFS---LSKEKFLIAGLWTCIMEG-DSLOERTYN-----HIAFOIQSEFVDEYTERIKALGVEMKPERPR---P-RVqgEGRSIY-YDFNHFEH--hagtleerlkryh  -----sLkVHHTGYAVKNDISALKKFKRLGyveESVVRDEVKRVYIQVINGGYRVELVAPDgedSPINKtkkgsptpYHICYEV--DIQKSIEMSQIGYTLFKKAEIAPAIDNRKVAFLFSTIGIIELEK-----</p> <p>Proposed: aliSize=106 (resi) RMSD=2.06 (Å)  MSGLSHTLIVKDLNKTAFLONI FNAEFLY--TFS---LSKEKFLIAGLWTCIME-----GD--SLO-----ertvNHIAFOIQSEFVDEYTERIKALGVEMKPERPR---vqgEGRSIFYYDFNHFEHAGtleerlkryh  SL-KVHHTGYAVKNDISALKKFKRL-LGYVVESevVRDevrKVYIQVINGGYRVELVAPDgedspinktkkgsptp---YHICYEVB--DIQKSIEMSQIGYTLFKKAEIAPAID---NRKVAFLFSTIGIIELEK-----</p>
109	<p>2f5gA (130)</p> <p>2fyxA (130)</p>	C	34.62	<p>TM-align: aliSize=109 (resi) RMSD=1.55 (Å)  eLSTHTKLCNYHFVWIPNHRNTLVNEIAEYTKEVKSTAEELCEI IALEVMPDHIHLFVNCPRRYAPSYLANYFKKKSARLILKKFPQNK----GKLVTRSYFAATAGNvssevikkyieeqwrkege-----  -MKKGGYVVKLEYHLI WATYRHOVLVDEVADGLNDI LRDIA TQNGLELVALEVMPDYVHLLGATPOHVIPDFVKALKGASARRMFSAPHLKQphwGnLWNPSCYCLTVS-----ehtraqiqyienqhaa</p> <p>SARST: aliSize=120 (resi) RMSD=10.12 (Å)  eLSTHTKLCNYHFVWIPNHRNTLVNEIAEYTKEVKSTAEELCEI IALEVMPDHIHLFVNCPRRYAPSYLANYFKKKSARLILKKFPQNK----NKLVTRSYFAATagnVSSEVIKKYIEEQW-----rkege  --mKKGGYVVKLEYHLI WATYRHOVLVDEVADGLNDI LRDIA TQNGLELVALEVMPDYVHLLGATPOHVIPDFVKALKGASARRMFSAPHLKQphwGnLWNPSCYCLTVS-----VSEHTRAQIQYIENqhaa-----</p> <p>BLAST: aliSize=73 (resi) iden=37.69% (49/130) simi=56.15% (73/130)  eLSTHTKLCNYHFVWIPNHRNTLVNEIAEYTKEVKSTAEELCEI IALEVMPDHIHLFVNCPRRYA-PSYLaNYFKKKSARLILKKFPQNK----GKLVTRSYFAATAGNVSSEVIKKYIEEQW-----wrkege  -MKKGGYVVKLEYHLI WATYRHOVLVDEVADGLNDI LRDIA TQNGLELVALEVMPDYVHLLGATPOHVIPDFV-KALKGASARRMFSAPHLKQphwGnLWNPSCYCLTVSEHTRAQIQYIENqhaa-----</p> <p>Proposed: aliSize=125 (resi) RMSD=1.46 (Å)  eLSTHTKLCNYHFVWIPNHRNTLVNEIAEYTKEVKSTAEELCEI IALEVMPDHIHLFVNCPRRYAPSYLANYFKKKSARLILKKFPQNK----GKLVTRSYFAATagnVSSEVIKKYIEEQWRKEG-e  -MKKGGYVVKLEYHLI WATYRHOVLVDEVADGLNDI LRDIA TQNGLELVALEVMPDYVHLLGATPOHVIPDFVKALKGASARRMFSAPHLKQphwGnLWNPSCYCLTVS-----VSEHTRAQIQYIENqhaa-</p>
110	<p>2axwA (134)</p> <p>2fvnA (142)</p>	C	79.85	<p>TM-align: aliSize=121 (resi) RMSD=2.96 (Å)  -AELHLESRGGSGTQLRDGAKVATGRIICrEAHT-GFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGGDgWSPVKGEg-KGVS SRPQEEQVFFDVMADGNODIAPGEYRFSVGGACVVPQ-EKLaalehHHHH-----  sAELHLESRGGSGTQLRDGAKVATGRIIC-REAHTGFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGGD-GWSPVKGEg-KGVS SRPQEEQVFFDVMADGNODIAPGEYRFSVGGACVVPQeDNK-----qgf tpsgtgttkltvt</p> <p>SARST: aliSize=125 (resi) RMSD=15.50 (Å)  aelhl-----ESRGGsgtqLRDGAKVATGRIICrEAHTGFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGGDgWSPVKGEgKVS SRPQEEQVFFDVMAD-GNQDIAPGEYRF-----SVGGACVVPQEKLAALeHHHHH--h  -----saelhlesrGSGTQ---LRDGAKVATGRIICrEAHTGFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGGDgWSPVKGEgKVS SRPQEEQVFFDVMADgNQDIAPGEYRFSvgacVVPQEDNKQGFTPSGTGTTKLTVt-</p> <p>BLAST: aliSize=121 (resi) iden=90.30% (121/134) simi=90.30% (121/134)  -AELHLESRGGSGTQLRDGAKVATGRIICrEAHTGFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGGDgWSPVKGEgKVS SRPQEEQVFFDVMADGNODIAPGEYRFSVGGACVVPQe-----kLaalehHHHH  sAELHLESRGGSGTQLRDGAKVATGRIICrEAHTGFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGGDgWSPVKGEgKVS SRPQEEQVFFDVMADGNODIAPGEYRFSVGGACVVPQEdnkqgf tpsgtgttkltvt-----</p> <p>Proposed: aliSize=129 (resi) RMSD=2.54 (Å)  -AELHLESRGGSGTQLRDGAKVATGRIICrEAHT-GFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGd-GWSPV kgeG---KGVS SRPQEEQVFFDVMADGNODIAPGEYRFSVGGACV-----VPOEKLAALeHHHHH--  sAELHLESRGGSGTQLRDGAKVATGRIIC-REAHTGFHVWMNERQVDGRAERYVQSKDGRHEL RVRTGd-GWSPV---KeggKVS SRPQEEQVFFDVMADGNODIAPGEYRFSVGGACVvpqedNKQGFTPSGTGTTKLTVt</p>

111	<p>2pa7A (135)</p> <hr/> <p>lcauA (181)</p>	N	11.11	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.59 (Å)  enkvinfkkiidsrgslvaieenknipf-----SIKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDSPaVGLYVGPVWHEMDFSSDCVMMVLA-----YYDetDYIRO-----Yd-Nfkkyiakindle-----  -----aqnnpylfrsnkfltlfknqhgslrlqlrfnedteklendRyrvleyCSKPNLLLLPHSDSL-LVLVEGQAILVIVNPDGRDQYKLDQG-DAIKIQAGTPFYLINPNNQNLRIKfai tfrpgrtvedfflssstkr lpsylsafsknfleasydspsydeieqtllqeeqegvirkmpk-----</p> <p>afsknfleasydspsydeieqtllqeeqegvirkmpk</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=10.52 (Å)  en-----KVINFKKI--IDSRGSLVAIEE--NKNIPFS--IKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDSPaVGLYVGPVWHEMDFSSDCVMMVLA-----sdyd  -----aqnnpylFRSFKFLTl fKNOHGSLRLQRfEDTEKLenlRdyrvleyCSKPNLLLLPHSDSL-LVLVEGQAILVIVNPDGRDQYKLDQG-DAIKIQAGTPFYLINPNNQNLRIKfai tfrpgrtvedfflssstkr lpsylsafsknfleasydspsydeieqtllqeeqegvirkmpk-----</p> <p>etdyirqydnfkkyiakindle</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=7.41% (10/135) simi=11.85% (16/135)  enkvinfkkiidsrgslvaieenknipfsikrvyyifdtkgeepgrgfahhkkle-----FOVLVCLNIGSCRVIIDGNIIOEITLDS-----  -----aqnnpylfrsnkfltlfknqhgslrlqlrfnedteklendRyrvleyCSKPNLLLLPHSDSL-LVLVEGQAILVIVNPDGRDQYKLDQG-DAIKIQAGTPFYLINPNNQNLRIKfai tfrpgrtvedfflss</p> <p>-----avglyvgpavwhemhdfssdcvmmvlasdydetdyirqydnfkkyiakindle</p> <p>tkrlpsylsafsknfleasydspsydeieqtllqeeqegvirkmpk</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.26 (Å)  e-----NKVINFKKI--IDSRGSLVAIEE--NKNIPFS--IKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDSPaVGLYVGPVWHEMDFSSDCVMMVLA-----YDdetDYIRO-----YdN-----  -----aqnnpylFRSFKFLTl fKNOHGSLRLQRfEDTEKLenlRdyrvleyCSKPNLLLLPHSDSL-LVLVEGQAILVIVNPDGRDQYKLDQG-DAIKIQAGTPFYLINPNNQNLRIKfai tfrpgrtvedfflssstkr lpsylsafsknfleasydspsydeieqtllqeeqegvirkmpk-----</p> <p>--fkkyiakindle  pk-----</p>
112	<p>2pa7A (135)</p> <hr/> <p>lznPA (140)</p>	N	8.89	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.97 (Å)  enkvinfkkiidsrgslvaieenknipf-----SIKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDS-----AVGLYVGPVWHEMDFSSDCVMMVLA-----DYDETDYIROy-NFKkyiakindle-----  -----dsaqaiirelglephpeggyhqtfrdkaggerGHSTAIYLL-LEKGVRSWHVVRTDAVEWHYYAGAPIALHLSQDREVTFLLGPaillegeRPOVIVPANCQSAESLGDFTLVGCTVSPGFAFSSFAEP-gWSP-----g</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=8.68 (Å)  enkvinfkkiid-----SRGSLVAIEE--ENKNIPFSIKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDS-----DSPA VGLYVGPVWHEMDFSSDCVMMVLA-----YDDETDYIRO-----YDNFKkyiakindle  -----dsaqaiirelglephPEGFYHQTfrdkAGGE--RGHSTAIYLL-LEKGVRSWHVVRTDAVEWHYYAGAPIALHLSQDREVTFLLGPaillegeRPOVIVPANCQSAESLGDFTLVGCTVSPGFAFSSFAEP-gWSP-----</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=11.85% (16/135) simi=17.78% (24/135)  enkvinfkkiidsrgslvaieenknipfsikrvyyifdtkgeepgrgfahhkkleovlvcnlgscrviidg-nioeitldspav-----glyvgpavwhemhdf  -----dsaqaiirelglephpeggyhqtfrdkaggerghstaiyylle-kGVRS--WHVVRTDAVEWHYYAGAPIALHLSQDREVTFLLGPaillegeRPOVIVPANCQSAESLGDFTLVGCTVSPGFAFSSFAEP-gWSP-----</p> <p>ssdcvmmvlasdydetdyirqydnfkkyiakindle</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=2.17 (Å)  enk-----VINFKKIidsrgslvaiee-----nknipfsikrvyyifdtkgeepgrgfahhkkleovlvcnlgscrviidg-nioeitldspav-----pAVGLYVGPVWHEMDFSSDCVMMVLA-----YDDETDYIRO-----Y-----DNFKkyiakindle  -----dmsaqaiirelglePHPE--EGFYHQTfrdkaggergh-----STAIYLL-LEKGVRSWHVVRTDAVEWHYYAGAPIALHLSQDREVTFLLGPaillegeRPOVIVPANCQSAESLGDFTLVGCTVSPGFAFSSFAEP-gWSP-----</p>
113	<p>2pa7A (135)</p> <hr/> <p>l1r5A (160)</p>	N	11.85	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.62 (Å)  enkvinfkkiidsrgslvaieenknipf-----SIKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDSPaVGLYVGPVWHEMDFSSDCVMMVLA-----DYDdetDYIRO---YDNFKKYiakindle-----  -----scvrdnslvrdisqmpqssygieglshittvagalnhgmKEVEWlQT-ISPQRTPIHRSCEVFTV-KKKGTLMLGSSSLkypGqPQEIFPFQNTTFSIPVNDPQVWNSDEHEDLOVLVITSRPPA--KIFLYddwSMPh-TA-----avlkfpf</p> <p>vwdedcfeak</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=3.97 (Å)  enkvinfkkiidsrgslvaieenknipf-----SIKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDSPaVGLYVGPVWHEMDFSSDCVMMVLA-----SDYYD-----e  -----scvrdnslvrdisqmpqssygieglshittvagalnhgmKEVEWlQTISPQRTPIHRSCEVFTV-KKKGTLMLGSSSLkypGqPQEIFPFQNTTFSIPVNDPQVWNSDEHEDLOVLVITSRPPA--KIFLYddwSMPh-TA-----avlkfpfvwdedcfeak-----</p> <p>tdyirqydnfkkyiakindle</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=9.63% (13/135) simi=15.56% (21/135)  enkvinfkkiidsrgslvaieen-----scvrdnslvrdisqmpqssygieglshittvagalnhgmKEVEWlqtispqrtpihrhsceevftvlkkggtllmgssslkypgqpQEIFPFQNTTFSIPVNDPQVWNSDEHEDLOVLVITSRPPA--KIFLYddwSMPh-TA-----avlkfpfvwdedcfeak-----  -----scvrdnslvrdisqmpqssygieglshittvagalnhgmKEVEWlqtispqrtpihrhsceevftvlkkggtllmgssslkypgqpQEIFPFQNTTFSIPVNDPQVWNSDEHEDLOVLVITSRPPA--KIFLYddwSMPh-TA-----avlkfpfvwdedcfeak-----</p> <p>itldspavglyvgpavwhemhdfssdcvmmvlasdydetdyirqydnfkkyiakindle</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=2.39 (Å)  e-----ENKVIN--FKKI--IDSRGSLVAIEE--NKNIPFSIKRYYIFdTKGEEPRGFIAHKKLEQVLVCLNIGSCRVIIDGNIIOEITLDSPaVGLYVGPVWHEMDFSSDCVMMVLA-----DYDdetDYIRO---YDNFKK-----Yiakindle  -----scvrdnslvrdisqmpqssygieglshittvagalnhgmKEVEWlQT-ISPQRTPIHRSCEVFTV-KKKGTLMLGSSSLkypgqpQEIFPFQNTTFSIPVNDPQVWNSDEHEDLOVLVITSRPPA--KIFLYddwSMPh-TA-----avlkfpfvwdedcfeak-----</p>

114	<p>1s60A (152)</p> <p>2i79A (171)</p>	C	10.53	<p><b>TM-align:</b> aliSize=138 (resi) RMSD=2.72 (Å)  lvprGSHMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIFYRkrcc-----  -----MEYELLIREAEPKDAAEVAFNLRVSLetdftsLDgDgILLT-SEEMEIFLNKQasSdNQITLLAFLNFKIAGIVNITADQRkrvRhIGDLF-----FVIGKRYWNNLGLSLEEAIEWAQASGILRLQLTVQTRQAQAVHLYKHGFVIEGSOERG----ayieegkfidvylmgkli</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=4.05 (Å)  lvprgsh---MDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----fy  -----meyerLLIREAEPKDAAEVAFNLRVSLetdftsLDgDgILLT-SEEMEIFLNKQASSNQITLLAFLNFKIAGIVNITADQRkrvRhIGDLF-----FVIGKRYWNNLGLSLEEAIEWAQASGILRLQLTVQTRQAQAVHLYKHGFVIEGSOERG----ayieegkfidvylmgkli--  rkrcc  -----</p> <p><b>BLAST:</b> aliSize=41 (resi) iden=15.13% (23/152) simi=26.97% (41/152)  lvprgshmdiromnkthlehwgrlkrqlwpghpddahladgeeiloahlasfiamadgvaigf-----deEIIQADHLASFI-----AMADG--VAIGFADASIRHDYVNGCDS-SPVVFLEGIIVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGF-----  -----meyellireapkdAAELVAFNLRVSLetdftsLDgDgILLT-SEEMEIFLNKQASSNQITLLAFLNFKIAGIVNITADQRKRHRIGDLFIVIGKRYWNNLGLSLEEAIEWAQASGILRLQLTVQTRQAQAVHLYKHGFVIEGSOERG----ayieegkfidvylmgkli</p> <p>-----eeteVIFYRkrcc  qergayieegkfidvylmgkli-----</p> <p><b>Proposed:</b> aliSize=139 (resi) RMSD=2.15 (Å)  lvpr-GSHMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----VIFYRKRCC-----c  -----mEYELLIREAEPKDAAEVAFNLRVSLetdftsLDgDgILLT-SEEMEIFLNKQasSdNQITLLAFLNFKIAGIVNITADQRkrvRhIGDLF-----FVIGKRYWNNLGLSLEEAIEWAQASGILRLQLTVQTRQAQAVHLYKHGFVIEGSOERG----ayieegkfidvylmgkli</p>
115	<p>1s60A (152)</p> <p>1wwzA (157)</p>	C	8.55	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.69 (Å)  lvprGSHMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFLEGIIVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIFYRkrcc-----  -----MDEIKLEKLLKIDKKAENELIDVYMSGYEgYegleeyGGEGRVYARNYIKWCW-KK-ASdGFVAKVGDKIIVGIVCDKDFWFSKY--E-GRIVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGEKK-VGKSG----iwwrmikrq</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=4.60 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFLEGIIVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----IFYRKR---rc  -----mDEIKLEKLLKIDKKAENELIDVYMSGYEgYegleeyGGEGRVYARNYIKWCWKKASDGFVAKVGDKIIVGIVCDKDFWFSKY--E-GRIVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGEKKVGSgiwwrmikrq--</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=14.47% (22/152) simi=24.34% (37/152)  lvprgshmdiromnkthlehwgrlkrqlwpghpddahladgeeiloahlasfiamadgvaigf-----GADNSIRHYVNGCDS-SPVVFLEGIIVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----  -----mdeikiekllkldkkaenelidvymsgyegleeyggegrdyarnyikcwkkasdgfVAKVGDKIIVGIVCDKDFWFSKY--E-GRIVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGEKKVGSgiwwrmikrq--</p> <p>SPENTISOKVHOALGFEE-----terVIFYRkrcc  GEKNYGAMNLYEKFGEKKVGSgiwwrmikrq-----</p> <p><b>Proposed:</b> aliSize=139 (resi) RMSD=2.37 (Å)  lvprGSHMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFLEGIIVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----IFYRKRCC-----c  -----MDEIKLEKLLKIDKKAENELIDVYMSGYEgYegleeyGGEGRVYARNYIKWCWKK-ASdGFVAKVGDKIIVGIVCDKDFWFSKY--E-GRIVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGEKKVGSgiwwrmikrq--</p>
116	<p>1s60A (152)</p> <p>2cmmA (151)</p>	C	14.57	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=2.27 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIFYRkrcc-----  -----MNTSILSTIDLPAAWQIEORAHAFPWSE-KTFF-G--NQ-GE-RYLNKLTADDRMAAFATQVVL-----DEATFNIAADDFORRGLGRMLEHLIDELETRVVTWLEVRASNAATAIYESLGFNEATIRRNYYptagghedaaimalpismklh</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=2.93 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----fykrcc  -----MNTSILSTIDLPAAWQIEORAHAFPWSEKTFF-----GNqgerYLNKLTADDRMAAFATQVVL-----EATFNIAADDFORRGLGRMLEHLIDELETRVVTWLEVRASNAATAIYESLGFNEATIRRNYYptagghedaaimalpismklh-----</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=15.89% (24/151) simi=28.48% (43/151)  lvprgshmdiromnkthlehwgrlkrqlwpghpddahladgeeiloahlasfiamadgvaigf-----ADHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----  -----mntsilstidlpaawqieqrahafpwektffgnqGERYLNKLTADDRMAAFATQVVL-----EATFNIAADDFORRGLGRMLEHLIDELETRVVTWLEVRASNAATAIYESLGFNEATIRRNYYptagghedaaimalpismklh</p> <p>-----rkrcc  hedaiimalpismklh-----</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=1.97 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-L-HPDdAHLADGEEIIOAdHLASFIAMADGVAIGFADASIRHDYVngcdsSPVVFEGFVLPSPFRORVAKOIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFEEETERVIF-----IFYRKRCC-----c  -----MNTSILSTIDLPAAWQIEORAHAFPWSEKTFFGN--Q-GE-RYLNKLTADDRMAAFATQVVL-----DEATFNIAADDFORRGLGRMLEHLIDELETRVVTWLEVRASNAATAIYESLGFNEATIRRNYYptagghedaaimalpismklh</p>

117	<p>1s60A (152)</p> <p>1wk4A (174)</p>	C	<p>17.11</p> <p><b>TM-align:</b> aliSize=137 (resi) RMSD=2.04 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-LW-----P-HPDDAHLADGEEIIOA--DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFyrkrc-----  -----VRLRRAGLEDIPGVARVLDVtWRatyrgvvpeafLeLSYEGQAERWAQRKTptWPGRLEVAESESSEVVGFVAFGPD-RASG-FPGY-TAEWAIVYVLP-TWQRKLGRAIFHEGALLQAEYGR-LVWVLEKPKGRGFYEHGVLGGERIE---lggaklwevaygfdl gghkw</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=4.51 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-LW-----KOLWPGHPDDAHLADGEEIIOA--DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR-----krc  -----VRLRRAGLEDIPGVARVLDVtWRATYRGVVLEAFLEglsyegQAEERWAQRKtPTWpGRLEVAESESSEVVGFVAFGPD-RASGFPYTAE---EWAIVYVLP-TWQRKLGRAIFHEGALLQAEYGR-LVWVLEKPKGRGFYEHGVLGGERIElggaklwevaygfdl gghkw---</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=13.82% (21/152) simi=26.32% (40/152)  lvprgshMDIROMNKTHLEHWRGLRKO-LW-----P-HPDDAHLADGEEIIOA--DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR-----krc  -----VRLRRAGLEDIPGVARVLDVtWRATYRGVVLEAFLEglsyegQAEERWAQRKtPTWpGRLEVAESESSEVVGFVAFGPD-RASGFPYTAE---EWAIVYVLP-TWQRKLGRAIFHEGALLQAEYGR-LVWVLEKPKGRGFYEHGVLGGERIElggaklwevaygfdl gghkw---</p> <p>SOKVHOALGFEETERVIFyrkrc  GRGFYEHGVLGGERIElggaklwevaygfdl gghkw-----</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=1.87 (Å)  lvprgshMDIROMNKTHLEHWRGLRKO-LW-----P-HPDDAHLADGEEIIOA--DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR-----FIRKR---C--c  -----VRLRRAGLEDIPGVARVLDVtWRATYRGVVLEAFLEglsyegQAEERWAQRKtPTWpGRLEVAESESSEVVGFVAFGPD-RASGFPYTAE---EWAIVYVLP-TWQRKLGRAIFHEGALLQAEYGR-LVWVLEKPKGRGFYEHGVLGGERIElggaklwevaygfdl gghkw---</p>
118	<p>1s60A (152)</p> <p>1gheA (170)</p>	C	<p>15.13</p> <p><b>TM-align:</b> aliSize=131 (resi) RMSD=2.38 (Å)  lvprgshMDIROMN---K-TLLEHWRGLRKO-LW-----WP-GH-PDDAHLADGEEIIOADH--ASFIAMADG-VATIGFADASIRhDYVngcd--SSPVVLEGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYRkrc-----  -----AQLRRVTaesFahYRHGLAQLFETVhggasvgAdLdQqAYWCDGLKADIAAGSLLWVVAE-DdNVLASQSLCQK-----pnGLNRAEVQKL-VLPSARGRGLGROL-DEVEQVAVKHKRGLLHLDTEAGSVAAAFYS-LAYTRVGEIpgycatpdgrlhptaiyftl</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=6.28 (Å)  lvprgshMDIROMN---K-TLLEHWRGLRKO-LW-----WRGLRKOLWP--HP-----DHLADGEEIIOADH--ASFIAMADG-VATIGFADASIRhDYVngcdSSPVVleGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR---c  -----AQLRRVTaesFahYRHGLAQLFETVhggasvgAdLdQqAYWCDGLKADIAAGSLLWVVAE-DdNVLASQSLCQKPNGL-NRAE---QKLVPSARGRGL-GROLDEVEQVAVKHKRGLLHLDTEAGSVAAAFYS-LAYTRVGEIpgycatpdgrlhptaiyftl-</p> <p><b>BLAST:</b> aliSize=45 (resi) iden=17.76% (27/152) simi=29.61% (45/152)  lvprgshMDIROMN---K-TLLEHWRGLRKO-LW-----WP-GH-PDDAHLADGEEIIOADH--ASFIAMADG-VATIGFADASIRhDYVngcdSSPVVleGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR---c  -----AQLRRVTaesFahYRHGLAQLFETVhggasvgAdLdQqAYWCDGLKADIAAGSLLWVVAE-DdNVLASQSLCQKPNGL-NRAE---QKLVPSARGRGL-GROLDEVEQVAVKHKRGLLHLDTEAGSVAAAFYS-LAYTRVGEIpgycatpdgrlhptaiyftl-</p> <p>-----eeterVIFyrkrc  elpgycatpdgrlhptaiyftl-----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=1.96 (Å)  lvprgshMDIROMN---K-TLLEHWRGLRKO-LW-----PG--H---PDDAHLADGEEIIOADH--ASFIAMADG-VATIGFADASIRH--DyngcdsSPVVLEGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR---c  -----AQLRRVTaesFahYRHGLAQLFETVhggasvgFmadLmqQAYWCDGLKADIAAGSLLWVVAE-DdNVLASQSLCQKPNGL-NRAE---QKLVPSARGRGL-GROLDEVEQVAVKHKRGLLHLDTEAGSVAAAFYS-LAYTRVGEIpgycatpdgrlhptaiyftl-</p>
119	<p>1s60A (152)</p> <p>1u6mA (189)</p>	C	<p>13.16</p> <p><b>TM-align:</b> aliSize=135 (resi) RMSD=2.89 (Å)  lvprgshMDIROMN---THLEHWRGLRKO-LW---G--H-----PD--AHLADGEEIIOADH--LASFIAMADGVAIGFADASIRH-----YNgCdsSPVVLEGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYRkrc-----  -----SLRSATLEDGQAIARVLVILKdmeLpileevseeqMILLAEATAY--PTyrygYQRI LVYEHA--EVAIIVGYPAEdekiideplrevfkkhglaedvrlfieeETL-P--N-EWYLDTSVDERFRGMIGSKLLDALPEVAKASQKQALGLNVDFDNPARKLYASKGFKDVTMTIS</p> <p>rkr-----  ---ghlynhmqkeve</p> <p><b>SARST:</b> aliSize=138 (resi) RMSD=5.87 (Å)  lvprgshMDIROMN---THLEHWRGLRKO-LW---G--H-----HPDDAHLADGEEIIOADH--LASFIAMADGVAIGFADASIRH-----YNgCdsSPVVLEGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYR-----  -----SLRSATLEDGQAIARVLVILKdmeLpileevseeqMILLAEATAY--PTyrygYQRI LVYEHA--EVAIIVGYPAEdekiideplrevfkkhglaedvrlfieeETL-P--N-EWYLDTSVDERFRGMIGSKLLDALPEVAKASQKQALGLNVDFDNPARKLYASKGFKDVTMTISghly</p> <p>-----yrkrc  nhmqkev-----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=6.58% (10/152) simi=10.53% (16/152)  lvprgshMDIROMN---THLEHWRGLRKO-LW---G--H-----PD--AHLADGEEIIOADH--LASFIAMADGVAIGFADASIRH-----YNgCdsSPVVLEGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYRkrc-----  -----SLRSATLEDGQAIARVLVILKdmeLpileevseeqMILLAEATAY--PTyrygYQRI LVYEHA--EVAIIVGYPAEdekiideplrevfkkhglaedvrlfieeETL-P--N-EWYLDTSVDERFRGMIGSKLLDALPEVAKASQKQALGLNVDFDNPARKLYASKGFKDVTMTIS</p> <p>-----fadasi rhdyngcdsSPVVleGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYRkrc  klyaskgfkdvttmTISghlynhmqkev-----</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=2.27 (Å)  lvprgshMDIROMN---THLEHWRGLRKO-LW---G--H-----PD--AHLADGEEIIOADH--LASFIAMADGVAIGFADASIRH-----YNgCdsSPVVLEGI fVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPE NTI SOKVHOALGFEETERVIFYRkrc-----  -----SLRSATLEDGQAIARVLVILKdmeLpileevseeqMILLAEATAY--PTyrygYQRI LVYEHA--EVAIIVGYPAEdekiideplrevfkkhglaedvrlfieeETL-P--N-EWYLDTSVDERFRGMIGSKLLDALPEVAKASQKQALGLNVDFDNPARKLYASKGFKDVTMTISghly</p> <p>RV---FYRRC---c  MTISghlynhmqkeve</p>



120	<p>1s60A (152)</p> <p>2r7hA (157)</p>	C	15.13	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.57 (Å)  lvprgshMDIROMNK-THLEHWGLRK-Q-LWPGHPD AHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIFYRkr-----  -----AVAFRQVLPQDALLVRRVVEStgFFTPEEAQVLAQELVDEHhHACGYHFVFAEDDD-ACYCYGTPA-----TEGTYDYWIAAAPHROHSLGRALLAEVVDVRLTGGRLFAETSgIRKYAPTRRFYERAGFSAEAVLkaFYR--agddkiiyrleva</p> <p><b>SARST:</b> aliSize=131 (resi) RMSD=3.96 (Å)  lvprgs-HMDIROMNKTHLEHWGL--RKOLWpghPDAHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTS--SPENTISOKVHOALGFEETERVIF-----fyrkrc  -----aVAFRQVLPQDALLVRRVVEStGFF---TPEEADVAQELVDEHhHACGYHFVFAEDDDAACYCYG---PTPA---TEGTYDYWIAAAPHROHSLGRALLAEVVDVRLTGGRLFAETSgIRKYAPTRRFYERAGFSAEAVLkaFYragddkiiyrleva-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=21.71% (33/152) simi=35.53% (54/152)  lvprgshmdi rqnkthlehwgrl rklwpgh-----pddahladgeeilo adhl asfi amad gva igf adas irhd yvngcd sspv vfl geg if vl sfror vak o ia avor wgt nk gcre masd ts --pent isokv hoal gfe eter v if yr ----  -----avafrrqvlpqdal lvr rvest gfft ee ad va --oelvd -eh-----h acy hfv fa tedddag y --ac -y gtpate g tydlyw iaa aphro hslgr all ae vhdvrlt ggr llfaets g irky aptrrf yera g f saeavl ka f yr agdd k ii yr le va</p> <p>-----krc  kiiyrleva---</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=2.18 (Å)  lvprgshMDIROMNK-THLEHWGLRK-Q-LWPGH--PddAHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE-NTISOKVHOALGFEETERVIF-----FYRKRc-----c  -----AVAFRQVLPQDALLVRRVVEStgFFTPEeaD--VAQELVDEHhHACGYHFVFAEDDDMAACYCYGTPA-----TEGTYDYWIAAAPHROHSLGRALLAEVVDVRLTGGRLFAETSgIRKYAPTRRFYERAGFSAEAVLkaFYragdDKIIYRleva-</p>
121	<p>1s60A (152)</p> <p>lyr0A (163)</p>	C	17.11	<p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.47 (Å)  lvprgshMDIROMNKTHLEHWGLRKOLWP-----GHPDahLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIFYRkr-----  -----SVELRDATVDDLSGIEIYNDAVNTtaiwnEVVV--LENRKDWFAArSRGFPVIVAILDCKVAGYASYGDWRaf-----dgyRHTRH-SVYHKDARGHGIGRQL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGfSvgtkfgrwldlcelkl</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=4.36 (Å)  lvprgsh-MDIROMNKTHLEHWGLRKOLWP-----GHPDahLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIF-----fyrkrc  -----sVELRDATVDDLSGIEIYNDAVNTTAIwneVVVDLENRKDWFAArTS-RGFPVIVAILDCKVAGYASYG---DWRafDgyRHTRHsvyHKDARGHGIGRQL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGfSvgtkfgrwldlcelkl-----</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=15.79% (24/152) simi=25.66% (39/152)  lvprgshmdi rqnkthlehwgrl rklwpghpddahladgee ilqadhlasf-----I AMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIFYRkr-----  -----sveldatvddlsgieiyndavnttaiwnevvvdlenrkdwfaartsrgfpvivailldckvagyasyg---dw-rafDgyRHTRHsvyHKDARGHGIGRQL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGfSvgtkfgrwldlcelkl</p> <p>LGFEETERVIFYRkr-----  LGFRVVGfsvgtkfgrwldlcelkl-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.04 (Å)  lvprgshMDIROMNKTHLEHWGLRKOLWP-----GHPDahLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIF-----FYRKRc-----c  -----SVELRDATVDDLSGIEIYNDAVNTtaiwnEVVV--LENRKDWFAArSRGFPVIVAILDCKVAGYASYGDWRafDgy-----RHTRH-SVYHKDARGHGIGRQL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGfSvgtkfgrwldlcelkl</p>
122	<p>1s60A (152)</p> <p>2fiaA (157)</p>	C	13.16	<p><b>TM-align:</b> aliSize=129 (resi) RMSD=2.75 (Å)  lvprgshMDIROMNKTHLEHWGLRK-QL-----PQHPDahLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIFYRkr-----  -----MKIRVADEKELPMILOFLTeVKaymdvvgitgTKDYP-SQ-GDIQEDITK--KRLYLLVHEEMIFSMATFCMEQ-----eQDFVWKRFAATSNYIAKCYGSLFHELEKRAVWEGRRKIYAQNHTNHRMIRFPES-KGFTKIHESLQmnrldfgsflyvkele</p> <p><b>SARST:</b> aliSize=124 (resi) RMSD=6.15 (Å)  lvprgshmd--ROMNKTHLEHWGLRKqlwpghpDDAHLA-----DGEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIF-----yrkrc  -----mkIRVADEKELPMILOFLT-----EVKAYMDvvgitgwtkdypsQDIIQEDITKKRLYLLVHEEMIFSM---ATFCMEQEQDFVWKRFAATSNYIAKCYGSLFHELEKRAVWEGRRKIYAQNHTNHRMIRFPES-KGFTKIHESLQmnrldfgsflyvkele-----</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=11.18% (17/152) simi=22.37% (34/152)  lvprgshmdi rqnkthlehwgrl rklwpghpddahladgee ilqadhlasfi amad gva igf adas irhd yvngcd sspv -----v fleg if vl sfror vak o ia avor wgt nk gcre masd ts --pent isokv hoal gfe eter v if yr ----  -----mkirvadekelpmilqfltevkaymdvvgitgwtkdyps qgd i qedi t kkrly llv heemi fsm at fcmee qdf -----v fleg if vl sfror vak o ia avor wgt nk gcre masd ts --pent isokv hoal gfe eter v if yr ----</p> <p>CREMASDTSPE--NTISOKVHOALGFEETERVIF-----rkrc  RRKIYAQNHTNHRMIRFPES-KGFTKIHESLQmnrldfgsflyvkele-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.25 (Å)  lvprgshMDIROMNKTHLEHWGLRK-QL-----PQHPDahLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGEGIFVLSFRORVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIF-----FYRKRc-----c  -----MKIRVADEKELPMILOFLTeVKaymdvvgitgTKDyp--SQ-GDIQEDITK--KRLYLLVHEEMIFSMATFCMEQe-----QDFVWKRFAATSNYIAKCYGSLFHELEKRAVWEGRRKIYAQNHTNHRMIRFPES-KGFTKIHESLQmnrldfgsflyvkele-----</p>

123	<p>1s60A (152)</p> <hr/> <p>1cm0B (161)</p>	C	7.89	<p><b>TM-align:</b> aliSize=125 (resi) RMSD=2.76 (Å)  lvprgSHMDIROMN-----K-T-H-EHWRGLRKO-LW-PGHPDdAHlADGEEi lqAdhLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSpeNt iSOKVHOALGFEEF Eryi-----FYRkrc-----  -----KVIEFHVVGnslnqkpnkklmWVGLQNVFShqLPrMPKEY-IT-RLVFDp--K--HKTLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEQVKYGTLMNHLKEYHIKHDILNFLTAYAD--E-YAIGYFKKQGF SKEI---kipktyvgyikdyE---gatlmgcelnp</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=3.24 (Å)  lvprgshmdirqmnn-----KTH-EHWRGLRKO-LW-PGHPDdAHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsspVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEE-----e  -----kviefhvvgnslnqkpnkklmWVGLQNVFShqLPrMPKEYITRL---VFDPKHKTALIKDGRVIGICFRMFPS--OC-----FTEIVFCAVTSNEQVKYGTLMNHLKEYHIKHDILNFLTAYADEY--AIGYFKKQGF SKEIkipktyvgyikdyegatlmgcelnp-</p> <p>ervifyrkr  -----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=6.58% (10/152) simi=10.53% (16/152)  lvprgshmdirqmknthlehwrglrkqlwpghpdda-----ADGEEILOADH--LASFIAmADGVAIGF-----A-----  -----kviefhvvgnslnqkpnkklmWVGLQNVFshqLprmpkeyitrlvfdpkhktlalikdgrvigicfrmfpsqgfteivfcavtsneqvkygtLMNHLKEYHIKHDILNFLTAYADEYAIgyfkkqg SKEIkipktyvgyikdyegatlmgcelnp</p> <p>-----dasirhdyvngcdsspvvflegifvlpsfrqrgvakqliaavqrgwtngkcremasdtspeNt iSOKVHOALGFEEF Eryi-----FYRkrc-----  mgcelnp-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.12 (Å)  lvprgSHMDIROMN-----KT-H-EHWRGLRKO-LW-PGHPDdAHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSpeNt iSOKVHOALGFEEF Eryi-----FYRkrc-----c  -----KVIEFHVVGnslnqkpnkklmWVGLQNVFShqLPrMPKEY-ITRLVFDp--PK--HKTLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEQVKYGTLMNHLKEYHIKHDILNFLTAYAD--E-YAIGYFKKQGF SKEIkipktyvgyikdyegATLMGCELNPc-</p>
124	<p>1s60A (152)</p> <hr/> <p>1mk4A (157)</p>	C	19.74	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.67 (Å)  lvprgsHMDIROMNKTHLHWRGLRKL-QL---WPGHPddaHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----RVI-FYRkrc-----  -----HMDIRITSSDYEMVTSVLNwWggrQLKEK---L--PR-LFFEHFQDTSFITSEHNSMTGELIGFQSQS-----PETAYIHFSGVHPDFRKMQIGKQLYDVFIE TVKQRCCTRVKCVTSPVNVKVS IAYITKLGFDIEKgtktvngisvfanYDGP--gqdrvlfvkni</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=5.15 (Å)  lvprgshMDIROMNKTHLHWRGLRKL-QL---WPGHPddaHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----RVI-FYRkrc-----rc  -----hMDIRITSSDYEMVTSVLNwWggrQLKEK---L--PR-LFFEHFQDTSFITSEHNSMTGELIGFQSQS-----SDPETAYIHFSGVHPDFRKMQIGKQLYDVFIE TVKQRCCTRVKCVTSPVNVKVS IAYITKLGFDIEKgtktvngisvfanYDGPgqdrvlfvkni--</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=23.68% (36/152) simi=35.53% (54/152)  lvprgsHMDIROMNKTHLHWRGLRKL-QL---WPGHPddaHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----etervifyrkr  -----HMDIRITSSDYEMVTSVLNwWggrQLKEK---L--PR-LFFEHFQDTSFITSEHNSMTGELIGFQSQS-----DIEKgtktvngisvfanYDGPgqdrvlfvkni-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.07 (Å)  lvprgsHMDIROMNKTHLHWRGLRKL-QL---WPGHPddaHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----RVI-FYRkrc-----c  -----HMDIRITSSDYEMVTSVLNwWggrQLKEK---L--PR-LFFEHFQDTSFITSEHNSMTGELIGFQSQS-----DIEKgtktvngisvfanYDGPgqdrvlfvkni-----</p>
125	<p>1s60A (152)</p> <hr/> <p>1z4rA (163)</p>	C	7.24	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=2.83 (Å)  lvprgSHMDIROMN---K-----T-H-EHWRGLRKO-LW-PGHPDdAHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----FYRkrc-----  -----SGIIEFHVIGnsltpkanrrvlwVGLQNVFShqLPrMPKEY-YIARLVFDp--PK--HKTLALIKDGRVIGICFRMFPT-----OGFTEIVFCAVTSNEQVKYGTLMNHLKEYHIKHNILYFLTYADEY-Y--AIGYFKKQGF SKEI---kvpksrylgyikdyE---gatlmecelnp</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=3.31 (Å)  lvprgshmdirqmknth-----sgiefhvignsltpkanrrvlwVGLQNVFShqLPrMPKEY-YIARLVFDp--PK--HKTLALIKDGRVIGICFRMFPT-----OGFTEIVFCAVTSNEQVKYGTLMNHLKEYHIKHNILYFLTYADEYAIgyfkkqgfskdkvpksrylgyikdyegatlmecelnp</p> <p>---qalgfeeervifyrkr  npr-----</p> <p><b>BLAST:</b> aliSize=22 (resi) iden=6.58% (10/152) simi=14.47% (22/152)  lvprgshmdirqmknthlehwrglrkqlwpghpddaHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsspvvflegifvlps-----RORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----FYRkrc-----  -----sgiefhvignsltpkanrrvlwVGLQNVFshqLprmpkeyiarlvfdpkhktlalikdgrvigicfrmfpsqgfteivfcavtsneqvkygtLMNHLKEYHIKHNILYFLTYADEYAIgyfkkqgfskdkvpksrylgyikdyegatlmecelnp</p> <p>MASDTSPEnt iSOKVHOALGFEEF Eryi-----FYRkrc-----c  HLMNHLKEYHIKHNILYFLTYADEYAIgyfkkqgfskdkvpksrylgyikdyegatlmecelnp-</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.26 (Å)  lvprgSHMDIROMN---K-----T-H-EHWRGLRKO-LW-PGHPDdAHlADGEEi lQADHLASFIAmADGVAIGFADASTRHdyvngcdsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNKGCREMASDTSPEnt iSOKVHOALGFEEF Eryi-----FYRkrc-----c  -----SGIIEFHVIGnsltpkanrrvlwVGLQNVFShqLPrMPKEY-YIARLVFDp--PK--HKTLALIKDGRVIGICFRMFPT-----OGFTEIVFCAVTSNEQVKYGTLMNHLKEYHIKHNILYFLTYADEY-Y--AIGYFKKQGF SKEI---kvpksrylgyikdyegATLMCELNPr-</p>

126	<p>1s60A (152)</p> <hr/> <p>2reeA (199)</p>	C	13.16	<p><b>TM-align:</b> aliSize=135 (resi) RMSD=2.70 (Å)  lvprgSHMDIROMNKTHLEHWRGRKQLPGHP--Dd-AHlADGEEILQADHLASFIAMADGVAIFADASIRHdYVNgcds-----SPVVFLEGI FVLP SFRORVAKOLI AAVQ-RWGTNKCREMASDTSPE-----TISOKVHOALGFEETERVIF  -----NYNLRHPKIEDRDLIAETLCSenlQvDN-EEIYRRIFKIPQGOLELEDKIVGAIYSQRID-NPQ-----l1dnktctqvp1lhtesGVVQQLAVNILELONQGLGDRLEFLMLOYCAQISVEKVVAVILCRNypdyspmpmaeyihqknesgllvdPLLRFQIHGAKIEKLLPG</p> <p>Yrkrc-----  Y----rpkdwenqtcgvlvsydiqhr</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=4.90 (Å)  lvprgsHMDIROMNKTHLEHWRGRKQLPG--GHPDDAHLADGEEILQADHLASFIAMADGVAIFADASIR----HYVN-----GCDSSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KCREMASDTSPE-----SPENT-----ISOKVHOALGFEETERVIF  -----NYNLRHPKIEDRDLIAETLCSenlQVDNEEYRRIFKIPQGOLELEDKIVGAIYSQRIDnpqllDNKtctqvp1lHTESGVVQQLAVNILELONQGLGDRLEFLMLOYCAQISVEKVVAVILCRNypdyspmpMAEYihqknesgllvdPLLRFQIHGAKIEKLLPgyrp</p> <p>-----fyrkrc  kdwenqtcgvlvsydiqhr-----</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=11.18% (17/152) simi=21.05% (32/152)  lvprgshmdiromnkthlehwgrlqkwpghpddahladgeeilqadhlasfiamadgvaigfadasirhdvngc-----nyynlrhpkiedlrdliaetlcwsenlqvndneeiyrrifkipqgqfileledkivgaisqridnpqlldnktctqvp1lhtDSSPVVFLEGI FVLP SFRORVAKOLI AAV  -----ORW-----TNNG-----CREMASDTSPEENTISOKVHOALGFEETERVIF-----algyfeetervifyrkrc  LOYcaqisGVEVvavtLCRNY-PYYSF-MPMAEYIFHknesgllvdpllrhfqihgakiekllygyrpkdwenqtcgvlvsydiqhr-----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.23 (Å)  lvprgSHMDIROMNKTHLEHWRGRKQLPG--HpdDAHLADGEEILQADHLASFIAMADGVAIFADASIRHdYVNgcds-----SPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KGCREMASDTSPE-----TISOKVHOALGFEETER  -----NYNLRHPKIEDRDLIAETLCSenlQvDN-EEIYRRIFKIPQGOLELEDKIVGAIYSQRID-NPQl1dnktctqvp1lhtes-----GVVQQLAVNILELONQGLGDRLEFLMLOYCAQISVEKVVAVILCRNypdyspmpmaeyihqknesgllvdPLLRFQIHGAKIEKLL  YI-----FYR---KRC-----c  LPgyrpkdWENqtcGVLvsydiqhr-----</p>
127	<p>1s60A (152)</p> <hr/> <p>1s7fA (181)</p>	N	11.18	<p><b>TM-align:</b> aliSize=137 (resi) RMSD=2.90 (Å)  lvprg-----SHMDIROMNKTHLEHWRGRK--Q--WP--GHPD-DAHLADGEEILQAD--D-HLASFIAMADGVAIFADASIRHDYVngcdsSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KGCREMASDTSPEENTISOKVHOALGFEETERVIF-FYRkrce-----  -----glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEY---lngdyhdvn</p> <p>-----myarii</p> <p><b>SARST:</b> aliSize=131 (resi) RMSD=3.93 (Å)  lvprgs-----HMDIROMNKTHLEHWRGRK--Q--WP--GHPD-DAHLADGEEILQAD--D-HLASFIAMADGVAIFADASIRHDYV--GCDSSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KCREMASDTSPEENTISOKVHOALGFEETERVIF  -----glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEYlngdyhdvn</p> <p>-----fyrkrc  myarii-----</p> <p><b>BLAST:</b> aliSize=15 (resi) iden=7.89% (12/152) simi=9.87% (15/152)  glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEYlngdyhdvnmyarii-----  lvwghpddahladgeeilqadhlasfiamadgvaigfadasirhdvngcdsSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KGCREMASDTSPEENTISOKVHOALGFEETERVIF-FYRkrce-----</p> <p><b>Proposed:</b> aliSize=135 (resi) RMSD=2.24 (Å)  glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEYlngdyhdvnmya  ---yrkrce  rii-----</p>
128	<p>1s60A (152)</p> <hr/> <p>1s7fA (181)</p>	C	10.53	<p><b>TM-align:</b> aliSize=137 (resi) RMSD=2.90 (Å)  lvprg-----SHMDIROMNKTHLEHWRGRK--Q--WP--GHPD-DAHLADGEEILQAD--D-HLASFIAMADGVAIFADASIRHDYVngcdsSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KGCREMASDTSPEENTISOKVHOALGFEETERVIF-FYRkrce-----  -----glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEY---lngdyhdvn</p> <p>-----myarii</p> <p><b>SARST:</b> aliSize=131 (resi) RMSD=3.93 (Å)  lvprgs-----HMDIROMNKTHLEHWRGRK--Q--WP--GHPD-DAHLADGEEILQAD--D-HLASFIAMADGVAIFADASIRHDYV--GCDSSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KCREMASDTSPEENTISOKVHOALGFEETERVIF  -----glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEYlngdyhdvn</p> <p>-----fyrkrc  myarii-----</p> <p><b>BLAST:</b> aliSize=15 (resi) iden=7.89% (12/152) simi=9.87% (15/152)  glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEYlngdyhdvnmyarii-----  lvwghpddahladgeeilqadhlasfiamadgvaigfadasirhdvngcdsSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KGCREMASDTSPEENTISOKVHOALGFEETERVIF-FYRkrce-----</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=2.21 (Å)  lvprgs-----HMDIROMNKTHLEHWRGRK--Q--WP--GHPD-DAHLADGEEILQAD--D-HLASFIAMADGVAIFADASIRHDYVngcdsSPVVFLEGI FVLP SFRORVAKOLI AAVORWGTN-KGCREMASDTSPEENTISOKVHOALGFEETERVIF  -----glvprgshmvveipvsTLELRAADESVPALHQLVlnkKawlQOSldWPTSqEETRKHVQGNILLHqRgYAKMYLIFCNEMAVLSFNATEP-----INKAAYIG-YWLDESFGQGIMSLSQALMTHYARRGDIRRFV IKCRVDQASNAARRNHITLEGCMKqAEYlngdyh  KRC-----c  DVNmyarii-----</p>

129	<p>1s60A (152)</p> <p>1ml1dA (163)</p>	C	8.55	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.58 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----LLDFDILTndgthrMKLIDLKNIFSRQPkMPKEY-IV-KLVFDR--H--HESMVILKKNKQKVICGICFRQYKP-----ORFAEVAFLAVTANEQVRGYGTRLMNKFCDHMOKQNI EYLLTYAD-NF--AIGYFKKQGTKEH---rmpqekwkyiKD----ydggtlmecyihpyvdygr</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.67 (Å)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasiRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----LDFDILTndgthrMKLIDLKNIFSRQPkMPKEY-IV-KLVFDR--H--HESMVILKKNKQKVICGICFRQYKP-----ORFAEVAFLAVTANEQVRGYGTRLMNKFCDHMOKQNI EYLLTYAD-NF--AIGYFKKQGTKEH---rmpqekwkyiKD----ydggtlmecyihpyvdygr</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=3.95% (6/152) simi=7.24% (11/152)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasiRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----LDFDILTndgthrMKLIDLKNIFSRQPkMPKEY-IV-KLVFDR--H--HESMVILKKNKQKVICGICFRQYKP-----ORFAEVAFLAVTANEQVRGYGTRLMNKFCDHMOKQNI EYLLTYAD-NF--AIGYFKKQGTKEH---rmpqekwkyiKD----ydggtlmecyihpyvdygr</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.27 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----LLDFDILTndgthrMKLIDLKNIFSRQPkMPKEY-IV-KLVFDR--H--HESMVILKKNKQKVICGICFRQYKP-----ORFAEVAFLAVTANEQVRGYGTRLMNKFCDHMOKQNI EYLLTYAD-NF--AIGYFKKQGTKEH---rmpqekwkyiKD----ydggtlmecyihpyvdygr</p>
130	<p>1s60A (152)</p> <p>lyvoA (169)</p>	C	15.13	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.41 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SIRDAGVADLPGILAIYNDVAVGntaiwneTPVLIANRQWFDTRARQGYPILVASDAAGVLYSYGDWRPF-----egFRGTVEH-SVYVRDDORGGKLGVLLOALITERARAOQLHVVAIESGNAASIGLHRRLGFEISGQPVGQKfgrwldltfqlndptrsap</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=4.11 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SIRDAGVADLPGILAIYNDVAVGntaiwneTPVLIANRQWFDTRARQGYPILVASDAAGVLYSYGDWRPF-----egFRGTVEH-SVYVRDDORGGKLGVLLOALITERARAOQLHVVAIESGNAASIGLHRRLGFEISGQPVGQKfgrwldltfqlndptrsap</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=10.53% (16/152) simi=17.76% (27/152)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasiRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SIRDAGVADLPGILAIYNDVAVGntaiwneTPVLIANRQWFDTRARQGYPILVASDAAGVLYSYGDWRPF-----egFRGTVEH-SVYVRDDORGGKLGVLLOALITERARAOQLHVVAIESGNAASIGLHRRLGFEISGQPVGQKfgrwldltfqlndptrsap</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.02 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SIRDAGVADLPGILAIYNDVAVGntaiwneTPVLIANRQWFDTRARQGYPILVASDAAGVLYSYGDWRPF-----egFRGTVEH-SVYVRDDORGGKLGVLLOALITERARAOQLHVVAIESGNAASIGLHRRLGFEISGQPVGQKfgrwldltfqlndptrsap</p>
131	<p>1s60A (152)</p> <p>2ob0A (154)</p>	C	10.53	<p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.77 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SKGSRIELGDVTPHNIKQLKRNQVIFVSY--N-DKFKYKDVLEVGLAKLAFYNDIYVAVCCRVDIS--NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESAIIDFYRKFGEIITKKNY---ykriepadahlqknl</p> <p><b>SARST:</b> aliSize=130 (resi) RMSD=3.36 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SKGSRIELGDVTPHNIKQLKRNQVIFVSY--N-DKFKYKDVLEVGLAKLAFYNDIYVAVCCRVDIS--NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESAIIDFYRKFGEIITKKNY---ykriepadahlqknl</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=19.08% (29/152) simi=42.76% (65/152)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasiRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SKGSRIELGDVTPHNIKQLKRNQVIFVSY--N-DKFKYKDVLEVGLAKLAFYNDIYVAVCCRVDIS--NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESAIIDFYRKFGEIITKKNY---ykriepadahlqknl</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=2.13 (Å)  lvprgshmdIROMKTHLEHWRLRKQW-PGHPDDAHLADGEEILQAdhLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGI FVLPSPFRQGVAKQIIAAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETErvi-----Fvrkrc-----  -----SKGSRIELGDVTPHNIKQLKRNQVIFVSY--N-DKFKYKDVLEVGLAKLAFYNDIYVAVCCRVDIS--NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESAIIDFYRKFGEIITKKNY---ykriepadahlqknl</p>

132	<p>1s60A (152)</p> <p>2vi7A (163)</p>	C	14.47	<p><b>TM-align:</b> aliSize=135 (resi) RMSD=2.91 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERVIFyrkrc-----  -----TIRLERYSERIVEGLTALYNDpavarqvlQMPYQSVQRRKRLHDS-DDRRLILVALHOCQDVIGSASLEOHPRIR---RSHSGSIgmvava--WQKGVGSRLLGELLDIADnWMNLRVELTVYTDNAPALALYRKFGFEETEGEMRDY---avrdrgrfvdvysmarlrr</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=3.73 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsSPVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERVI-----fyrkrc  -----TIRLERYSERIVEGLTALYNDpavarqvlQMPYQSVQRRKRLHDS-DDRRLILVALHOCQDVIGSASLEOHPRIRRS-HSG--SIGMVAV--AWQKGVGSRLLGELLDIADnWMNLRVELTVYTDNAPALALYRKFGFEETEGEMRDYavrdrgrfvdvysmarlrr-----</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=18.42% (28/152) simi=31.58% (48/152)  lvprgshmdi r q m n k t h l e h w r g l r k o --- l --- w p g h p d - d a h l a d g e e i i o a d h l a s f i a m a d v a i g f a d a s i r h d y v n g c d s s p v v f l e g i f v l p s f r o r g v a k o l i a a v o r w g t n k g c r e m a s d t s p e n t i s o k v h o a l g f e e t e r v i f y r k r c -----  -----t i r l e r y s e r h v e g l t a l y n d p a v a r q v l q m p y q s v e q r r k r l --- d s l --- d --- d r l l i l v a l h o c d v i g s a s l e o h p r i r r s h s g s i --- g m g v a w q k g v g s r l l g e l l d i a d n w m n l r r v e l t v y t d n a p a l a l y r k f g f e e t e g e m r d y a  -----  -----v i f y r k r c  avrdrgrfvdvysmarlrr-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.35 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHD--YvngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERV-----VIFYRKRC--c  -----TIRLERYSERIVEGLTALYNDpavarqvlQMPYQSVQRRKRLHDS-DDRRLILVALHOCQDVIGSASLEOHPRIR---RSHSGSIgmvava--WQKGVGSRLLGELLDIADnWMNLRVELTVYTDNAPALALYRKFGFEETEGEMRDYavrdrgrfvdvysmarlrr-----</p>
133	<p>1s60A (152)</p> <p>1q2yA (140)</p>	C	12.86	<p><b>TM-align:</b> aliSize=121 (resi) RMSD=2.41 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERVIFyrkrc-----  -----KAVIAKNEEQKDAFYVREEVFVkeqnvPAEE-EI-DEL-EN-E--SEHIVVYDGEKPVGAGRWRMKD-----GYGKLERICVTKSHSAGVGGIMKALEKAAADGASGFIILNAQ--TQ-AVPFYKHHYRVLSEKEF-----ldagiphlqmmkd</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=5.54 (Å)  lvprgshmdi r q m n k t h l e h w r g l r k q l w p g h p d d a h l a d g e e i l q a d h l a s f i a m a d v a i g f a d a s i r h d y v n g c d s s p v v f l e g i f v l p s f r o r g v a k o l i a a v o r w g t n k g c r e m a s d t s p e n t i s o k v h o a l g f e e t e r v i f y r k r c -----  -----m k a v i a k n e e q l k d a f y v r e e v f v k e q n v p a e e i d e l e n e s e h i v v y d g e k p v g a g r w r m k d --- m k d g --- y g k l e r i c v - t k s h s a g v g g i i m k a l e k a a a d g a s g f i l n a q t o a v p f y k h h y r v l s e k e f l d a g i p h l q m m k d  -RVIFYRK--rc  I P H L Q M M k d --</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=14.29% (20/140) simi=24.29% (34/140)  lvprgshmdi r q m n k t h l e h w r g l r k q l w p g h p d d a h l a d g e e i l q a d h l a s f i a m a d v a i g f a d a s i r h d y v n g c d s s p v v f l e g i f v l p s f r o r g v a k o l i a a v o r w g t n k g c r e m a s d t s p e n t i s o k v h o a l g f e e t e r v i f y r k r c -----  -----m k a v i a k n e e q l k d a f y v r e e v f v k e q n v p a e e i d e l e n e s e h i v v y d g e k p v g a g r w r m k d --- m k d g --- y g k l e r i c v - t k s h s a g v g g i i m k a l e k a a a d g a s g f i l n a q t o a v p f y k h h y r v l s e k e f l d a g i p h l q m m k d  cremasdtspentisqkvhqlgfeeterVifyrkrc  -----</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=2.02 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERV-----VIFYRKRC--c  -----KAVIAKNEEQKDAFYVREEVFVkeqnvPAEE-EI-DEL-EN-E--SEHIVVYDGEKPVGAGRWRMKD-----GYGKLERICVTKSHSAGVGGIMKALEKAAADGASGFIILNAQ--TQ-AVPFYKHHYRVLSEKEFldagI P H L Q M M k d --</p>
134	<p>1s60A (152)</p> <p>1yk3A (198)</p>	C	12.50	<p><b>TM-align:</b> aliSize=140 (resi) RMSD=2.90 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERVIFyrkrc-----  -----addalvrlarerfdlpdqvrllarppvpslePPYGLRVAQLTDAEMLAEMWNRphaaawEYDWAASRWQRHLNAQEGTYSLPLGSHWCTDGYLELYWAAKd1iSHYYDADPYDLG-HAAdLKVnRGfGpLLPRIVASVFANEP-RCRRIMFPDHRNTATRRLCEWACKFLGE</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=5.55 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERVIFyrkrc-----  -----addalvrlarerfdlpdqvrllarppvpslePPYGLRVAQLTDAEMLAEMWNRphaaawEYDWAASRWQRHLNAQEGTYSLPLGSHWCTDGYLELYWAAKd1iSHYYDADPYDLG-HAAdLKVnRGfGpLLPRIVASVFANEP-RCRRIMFPDHRNTATRRLCEWACKFLGE</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=17.76% (27/152) simi=31.58% (48/152)  lvprgshmdi r q m n k t h l e h w r g l r k o --- l --- w p g h p d - d a h l a d g e e i i o a d h l a s f i a m a d v a i g f a d a s i r h d y v n g c d s s p v v f l e g i f v l p s f r o r g v a k o l i a a v o r w g t n k g c r e m a s d t s p e n t i s o k v h o a l g f e e t e r v i f y r k r c -----  -----addalvrlarerfdlpdqvrllarppvpsleppyglrvaqltdaemlaeawmnrphaaawEYDWAASRWQRHLNAQEGTYSLPLGSHWCTDGYLELYWAAKd1iSHYYDADPYDLG-HAAdLKVnRGfGpLLPRIVASVFANEP-RCRRIMFPDHRNTATRRLCEWACKFLGE  OAL-----feetervVifyrkrc  EWACKflgehdttnrmalyaleapt-----</p> <p><b>Proposed:</b> aliSize=143 (resi) RMSD=2.74 (Å)  lvprgshMDIROMNKTLEHWRGLRKO---L---WPGHPD-DAHLADGEEIIOADHLASFIAMADVAIGFADASIRHDYVngcdsPVVFLFEGIFVLPsFRORGVAKOLIAAVORWGT-NKGCREMASDTSPENTISOKVHOALGFEETERVIFyrkrc-----  -----addalvrlarerfdlpdqvrllarppvpsleppyglrvaqltdaemlaeawmnrphaaawEYDWAASRWQRHLNAQEGTYSLPLGSHWCTDGYLELYWAAKd1iSHYYDADPYDLG-HAAdLKVnRGfGpLLPRIVASVFANEP-RCRRIMFPDHRNTATRRLCEWACKFLGE</p> <p>VIFYRKRC--c  HDTtnrmalyaleapt-----</p>

135	<p>1s60A (152)</p> <p>lyghA (164)</p>	C	7.24	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=3.04 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----KIEFVNVndnTkENMMVLTGLKNIQKqkqkmpKEY-IARLVY-DR-S--HLSMAVIRKPIITVVGGITYRPFdk-----REFAEIVFCAISSTEQVRCYGAHLMNHLKDYVRnTSNIKYFLTYAD--NY-AIGYFKKQGTKEI--tldksiwmgyiKDY----eggTlmqcsmlpriyld</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=4.66 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----kiefrvvnndntkenmmvltgkniFOKQLPKM-----KEYIARLVYDRSHLSMAVIRKPIITVVGGITYRPFdk-----EF-----AEIVFCAISSTEQVRCYGAHLMNHLKDYVRnTSNIKYFLTYADNYAIGYFK-----QFtkEITLdksiwmgyiKDYeggTlm</p> <p>-----fykrC  qcsmlpriyld-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=5.92% (9/152) simi=9.21% (14/152)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----kiefrvvnndntkenmmvltgkniFOKQLPKM-----KEYIARLVYDRSHLSMAVIRKPIITVVGGITYRPFdkrefaeivfcaisssteqvrvgahlmn-----YVVRNTSNIKYFLTYADNYAIGYFKkqgftkEITLdksiwmgyiKDYeggTlm</p> <p>-----adasirhdyvngcdsspvvflegifvlpsfrqgvakqliaavqrwgtngkcremasdtspentisqkvhqlgfeerervifykrC  qcsmlpriyld-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.40 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----KIEFVNVndnTkENMMVLTGLKNIQKqkqkmpKEY-IARLVY-DR-S--HLSMAVIRKPIITVVGGITYRPFdk-----REFAEIVFCAISSTEQVRCYGAHLMNHLKDYVRnTSNIKYFLTYAD--NY-AIGYFKKQGTKEI--tldksiwmgyiKDYeggTLMQCSMLPriyld-</p>
136	<p>1s60A (152)</p> <p>2bswA (145)</p>	C	15.17	<p><b>TM-align:</b> aliSize=128 (resi) RMSD=2.60 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----IEVKPINA--ED-TYELRHRILRNOPIEAC--FE-SD-LLRGAFHLGGYGGKLSIASFHQAHS-E-LOGQKQYQLR-ATIEGYREQAGSSLTKHAEEILRKRADLLWCNART-S--ASGYKKGHSEQGEVFDTPVgphilykrit</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=4.06 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----iEVKPIAEDTYELRHRILRNOPIEACFEFES---DLLRGAFHLGGYGGKLSIASFHQAHSSELOGQKQYQL---RGATIEGYREQAGSSLTKHAEEILRKRADLLWCNARTSAGYK---KLGHSE--QGEVFDTPVgphilykrit-</p> <p><b>BLAST:</b> aliSize=44 (resi) iden=19.01% (27/145) simi=30.99% (44/145)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----ievkpinaedtyelrhrilrnopieacfeESDRLRGAFHLGGYGGKLSIASFHQAHSSELOGQKQYQLR-ATIEGYREQAGSSLTKHAEEILRKRADLLWCNARTSAGYK---KLGHSE--QGEVFDTPVgphilykrit-</p> <p><b>Proposed:</b> aliSize=133 (resi) RMSD=2.21 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----IEVKPINA--ED-TYELRHRILRNOPIEAC-MF--sD-LLRGAFHLGGYGGKLSIASFHQAHS-E-LOGQKQYQLR-ATIEGYREQAGSSLTKHAEEILRKRADLLWCNART-S--ASGYKKGHSEQGEVfdtpVGPHILMykritc-</p>
137	<p>1s60A (152)</p> <p>2pclA (173)</p>	C	15.79	<p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.82 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----nlyfQGQIRLAFPNEIDQI-LTIEEARAeiaktgsdqwQkedGY--PNRNITIDDLN--GYAVWVIEDG-LATYAVIDGIEEvYdaIyegkWIHNHRYLTFHRIAISNOFRGRGLAQTFLOGLIEGHK---GPDFRCDTHEKNVT-CHILNKLGYOYCGKvpldgvrIAYOKIKek</p> <p><b>SARST:</b> aliSize=138 (resi) RMSD=7.74 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----nlyfQGQIRLAFPNEIDQIillieearAeIAKTGSDQWQKEdgypnRNDITIDDLNGY-----WVGIEDGLATYAVIDGHevydAIEGKWLHDNhRYLTFHRIAISNOFRGRGLAQTFLOGLIEGHK---GPDFRCDTHEKNVT-CHILNKLGYOYCGKvpldgvrIAYOKIKek-</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=22.37% (34/152) simi=43.42% (66/152)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----nlyfqqgqirlafpneidqillieearAeIAKTGSDQWQKEdgypnRNDITIDDLNGY-----WVGIEDGLATYAVIDGHevydAIEGKWLHDNhRYLTFHRIAISNOFRGRGLAQTFLOGLIEGHK---GPDFRCDTHEKNVT-CHILNKLGYOYCGKvpldgvrIAYOKIKek-</p> <p>----ifykrC  ikek-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.30 (Å)  lvprgshMDIRQMNKthLEHWRLRKQLWPGHPDDAHLADGEEIQAadHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQGVAKQLAAVQRWGTNKGCREMASDTSPEntiSOKVHOALGFEEERv-----IFYRkrC-----  -----nlyfqqgqirlafpneidqillieearAeIAKTGSDQWQKEdgypnRNDITIDDLN--GYAVWVIEDG-LATYAVIDGIEEvYdalyegkWIHNHRYLTFHRIAISNOFRGRGLAQTFLOGLIEGHK---GPDFRCDTHEKNVT-CHILNKLGYOYCGKvpldgvrIAYOKIKek-</p>

138	<p>1s60A (152)</p> <hr/> <p>2q7bA (164)</p>	C	14.47	<p><b>TM-align:</b> aliSize=131 (resi) RMSD=2.60 (Å)  lvprGSHMDIRMNKT--HLEHWRGRLKQLWP-----GHPddAhIAdGEEILQ---ADHLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLSFRQ--RGVAKOIAAVqRWGTNKGCREMASDTSPENTISOKVHOALGFEETERVIFR-----FYRkrc-----  -----FGG-EIKEYENPyHLAQLVDIINYQNieakldIKA--EQ-DIIFQIENyyqNRKGQFWALENEKVVGSIALLRID-----DKTAVLKKFFTYPKYGNpVRLGRKIFERFLFARASKFTRIVLDTPEKEKRSHFFYENQFKQ-ITRdeIdvdyiFPD---rdsriyvkll</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=6.76 (Å)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahlad-----GEEILADHLASFIAMADGVAIGFAdasirhDYVNGCISSPVVFLEGIIFVLSFRQ--RGVAKOIAAVO-RWGTNKGCREMASDTSPENTISOKVHOALG-----fkqi fde  -----fgeikeyenpyhlaqlvdlinycnieakldikaeqddifqIENYYNRRKGQFWALENEKVVGSI-----ALLRIDDKTAVLKK--FFTYPKYGNPRLGRKLFERFLFARASKFTRIVLDTPEKEKRSHFFYENQFKQITRdeIdvdyiFPDRDSRIYVKLLF-</p> <p>FEETERVIFYRKR-----c  LDVDYIFPDRDSRIYVKLL-</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=14.47% (22/152) simi=26.32% (40/152)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlas-----FIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSPENTISOKV  -----fgeikeyenpyhlaqlvdlinycnieakldikaeqddifqienyyqnrkgqfWALENEKVVGSIALLRID-----DKTAVLKKFFTYPKYGNPRLGRKIFERFLFARASKFTRIVLDTPEKEKRSHFF</p> <p>HOALGFEETER-----vifyrkr  YENQFKQITRdeIdvdyiFPDRDSRIYVKLL-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.08 (Å)  lvprGSHMDIRMNKT--HLEHWRGRLKQLWP-----GHPddAhIAdGEEILQ---ADHLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSPENTISOKVHOALGFE-----TERVIFYRKR-c  -----FGG-EIKEYENPyHLAQLVDIINYQNieakldIKM--EQ-DIIFQIENyyqNRKGQFWALENEKVVGSIALLRID-----DKTAVLKKFFTYPKYGNpVRLGRKIFERFLFARASKFTRIVLDTPEKEKRSHFFYENQFKQITRdeIdvdyiFPDRDSRIYVKLLF-</p>
139	<p>1s60A (152)</p> <hr/> <p>2fiwA (160)</p>	C	14.47	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=2.40 (Å)  lvprgSHMDIRMNKTHLEHWRGLRKQ-L-----GHPddAhIAdGEEILQ---ADHLASFIAMADGVAIGFADASIRHdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSpeNtISOKVHOALGFEETERVIFYRkr-----  -----ghvSTPALRYPYLPEDAAVTAAIFVAsIeqltaddyseeqeaVASAA--DEAKFAARLS-G--QLTLIATLQGVVPGFASLKG-----PDHIDLHYHEDYVGDVGTTLIDALEKLAGARALILTVAS--D-NAAEFFAKRYVAKQRNTVS---ingewl anttksl</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=6.02 (Å)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahlad-----GEEILOADHLASFIAMADGVAIGFADASIRHdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSpeNtISOKVHOALGFEETERVIFYR-----krc  -----ghvstPALRYPYLPEDAAVTAAIFVAsIEQLTADDYSEEQEEVAsaadeAKFAARLSGQLTLIATLQGVVPGFASLKGPDHIDL-----YHEDYVGDVGTTLIDALEKLAGARALILTVAS--NAAEFFAKRYVAKQRNTVSingewl anttksl---</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=14.47% (22/152) simi=28.29% (43/152)  lvprgshmdirqmknkthlehwrgl-----RKOLPQHPDahIAdGEEILOADHLASFIAMADGVAIGFADASIRHdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTS-----  -----ghvstPALRYPYLPEDAAVTAAIFVAsieqltaddyseeQOEAVASAA--EAKFAARLSGQLTLIATLQGVVPGFASLKGPDHIDL-----LYHEDYVGDVGTTLIDALEKLAGARALILTVASdnaaeffakryvakqrntvsingewl</p> <p>-----pentisqkvhqualgfeetervifyrkr  anttksl-----</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=1.88 (Å)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahlad-----GHPddAhIAdGEEILQ---ADHLASFIAMADGVAIGFADASIRHdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSpeNtISOKVHOALGFE-----TERVIFYRKR-c  -----ghvmstPALRYPYLPEDAAVTAAIFVAsIeqltaddyseeqeaVASAA--DEAKFAARLS-G--QLTLIATLQGVVPGFASLKG-----PDHIDLHYHEDYVGDVGTTLIDALEKLAGARALILTVAS--D-NAAEFFAKRYVAKQRNTVSingewl anttksla-</p>
140	<p>1s60A (152)</p> <hr/> <p>2k5tA (128)</p>	C	15.63	<p><b>TM-align:</b> aliSize=121 (resi) RMSD=2.62 (Å)  lvprgSHMDIRMNKTHLEHWRGRLKQLWPgHPDdAhIAdGEEILQ---ADHLASFIAMADGVAIGFADASIRHdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSPE--NTISOKVHOALGFEETERVIFYRkr-----  -----MkLTIIRLEKfSDQDRIDLQKIWP-EYSP-S--S-L-QV--DDNHRIYARFNERLLAAVRVTL-SG-----TEGALDSLRLREVTRRRGVGQYILEELRNPN--VSCWWMAdaGVEDRGVMTAFMOALGHTTQGG-----wckcg</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=6.34 (Å)  lvprgshmdirqmknkthlehwrglrkqlwpghpdda-----HLADGEEILOADHL-----ASFIIAMADGVAIGFADASIRHdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASD--TSPENTISOKVHOALGFE-----tevifyrkr  -----mkltiirlekfsDQDRIDLQKIWP-EYspsslqddnhRIYARFNERLLAAVRVTL-S-----GTEGALDSLRLREVTRRRGVGQYILEE--EVLRNPNVSCWWMAdaGVEDRGVMTAFMOALGHTTqggwckcg-----</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=13.28% (17/128) simi=18.75% (24/128)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasirhdyvngcdsspVVF-----LEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSPE  -----mkltiirlekfsdqdridlqkiwpeyspsslqddnhriyaarfnerllaaavrvtlsgtegaLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTSPE</p> <p>ISOKVHOALGFE-----eetervifyrkr  VMTAFMOALGHTTqggwckcg-----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.06 (Å)  lvprgshmdirqmknkthlehwrglrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasirhdyvngcdsspVVFLEGIIFVLSFRQ--RGVAKOIAAVORWGTNKGCREMASDTS--PE--NTISOKVHOALGFEETERVIFYRKR-c  -----MkLTIIRLEKfSDQDRIDLQKIWP-EYSP-S--S-L-QV--DDNHRIYARFNERLLAAVRVTL-SG-----TEGALDSLRLREVTRRRGVGQYILEELRNPNVSCWWMAdaGVEDRGVMTAFMOALGHTTQGGWCKCGc--</p>

141	<p>1s60A (152)</p> <hr/> <p>3d3sA (159)</p>	C	13.82	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.68 (Å)  lvprgsHMDIROMNKTHLEHWGRK-Q--WPgHppddAhADGEEILOADHLASFTIADVAIGFADASTRHdyvngcdsSPVFLGTFVLPSPFRORGVAKQIIAAVORW-GTNkGCREMASDTSPEPTISOKVHOALGF---EETERVIF--YRKRc-----  -----RYHLPPRRNDGAATHQVSECPpDLN---S-YAYLLLCEHHAHTCVVAVESpGRIDGfVSYLLPTR-----PDVLFVWQVAHSRAHGRLGRA-LGHILERqECR-HVHLETTVGDQAARRTFAGLAGergaHVSSEQPffdrqafggadhdelirigpf</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=5.30 (Å)  lvprgsh-MDIROMNKTHLEHWGRKOLW--PGHPDDAHADGEEILOADHLASFIAMADVAIGFADASTRHdyvngcdsSPVFLGTFVLPSPFRORGVAKQIIAAVORWGTNKGCREMASDTSPEPTISOKVHOALGF---LfeeterVIFYRKR-----c  -----rYHLPPRRNDGAATHQVSECPpDLNLSLYAYLLCEHHA---TCVVAESpGRIDGfVSYLLP-----TRPDVLFVWQVAHSRAHGRLGRA-GHILEKQECRH-VHLETTVGDQAARRTFAGlageR-----AHVSEQPffdrqafggadhdelirigpf-</p> <p><b>BLAST:</b> aliSize=12 (resi) iden=4.61% (7/152) simi=7.89% (12/152)  lvprgshmdi rqnkthlehwgrl r kqlwpghpddahl adgee ilqadhlasfi amadgvaigfadas irhdyvngcds spvflg t fvlps frqrgvakqlia avqrgwt nkgc-----  -----ryh l rpprrndgaa i hqlvsecppdl nslayl l lcehha tcvvaesp g r idgfvsayll p t rpdv lfvwq</p> <p>-----EMASDTSPEPTISOKVHOALGFfeeter-----ifyrkr  vavhsrarghrlgralghilerqecrhVHLETTVGDQAARRTFAGLA---GERgahvseqpffdrqafggadhdelirigpf-----</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.08 (Å)  lvprgsHMDIROMNKTHLEHWGRK-Q--WPgHppddAhADGEEILOADHLASFTIADVAIGFADASTRHdyvngcdsSPVFLGTFVLPSPFRORGVAKQIIAAVORW-GTNkGCREMASDTSPEPTISOKVHOALGF---EETERVIF--YRKRc-----IFYRKR-Cc  -----RYHLPPRRNDGAATHQVSECPpDLN---S-YAYLLLCEHHAHTCVVAVESpGRIDGfVSYLLPTR-----PDVLFVWQVAHSRAHGRLGRAMLGHILERqECR-HVHLETTVGDQAARRTFAGLAGergaHVSSEQPffdrqafggadhdelirigpf-</p>
142	<p>1s60A (152)</p> <hr/> <p>2pr8A (173)</p>	C	14.47	<p><b>TM-align:</b> aliSize=139 (resi) RMSD=3.35 (Å)  lvprgsHMDIROMNKTHLEHWGRKOLWP-----G-HPDD--AHLADGEEILO--AD-HLASFIAMADVAIGFADASTRHD---YVNGCDSSPVFLGTFVLPSPFRORGVAKQIIAAVORWGTNKGCREMASDTSPEPTISOKVHOALGFfeeterVIFYRKRc-----  -----D-SVTLRLNTEHDLAMLYEWLNRSHIvewwggEeARPTlaDVQEQYL--PSvLAQeSVTPYIAMLNCEPIGYAQSYVALGSGDGWEEETDPGRGIDLsIANasQLGKGLGtKLVRAVEL-LF--NDPEVTKIOTDPSNSLRAIRCYEKAGFERQGTVTTpdgpavymvqtrqafe</p> <p><b>SARST:</b> aliSize=137 (resi) RMSD=5.21 (Å)  lvprgs-HMDIROMNKTHLEHWGRKOLWP-----GHPDDAHLADGEEILOADH-LASFIAMADVAIGFADASTRHDYVNGCDSSPV--VFLGTFVLPSPFRORG----VAQOLIIAVORWGTNKGCREMASDTSPEPTISOKVHOALGFfeeterVIF-----yrkr  -----dSVTLRLNTEHDLAMLYEWLNRSHIvewwggEeARPTLADVQEQYLPVLAQESVTPYIAMLNCEPIGYAQSYVALGSGDGWEEETDPGRGIDLsIANASQlkgIGTLVRAVELLFDNDPEVTKIOTDPSNSLRAIRCYEKAGFERQGTVTTpdgpavymvqtrqafe-----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=23.03% (35/152) simi=43.42% (66/152)  lvprgshmdirq-----MKNKTHLEHWGRl r kqlwpghpddahl adgee ilqadhlasfi amadgvaigfadas irhdyvngc dsspv flg t fvlps frqrgvakqlia avqrgwt nkgc rmas dtspe pti sokvhoal g f e e t e r v i f y r k r c -----  -----dsvtlrlntehdlamlyewlnrshivewwggEeARPTlaDVQEQYLPVLAQESVTPYIAMLNCEPIGYAQSYVALGSGDGWEEETDPGRGIDLsIANASQlkgIGTLVRAVELLFDNDPEVTKIOTDPSNSLRAIRCYEKAGFERQGTVTTpdgpavymvqtrqafe-----  ---eterVIFYRKRc  qafe-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.74 (Å)  lvprgs-HMDIROMNKTHLEHWGRKOLWP-----G-HPDD--AHLADGEEILO--AD-HLASFIAMADVAIGFADASTRHD---YVNGCDSSPVFLGTFVLPSPFRORGVAKQIIAAVORWGTNKGCREMASDTSPEPTISOKVHOALGFfeeterVIF-----IFYRKRc-----c  -----dSVTLRLNTEHDLAMLYEWLNRSHIvewwggEeARPTlaDVQEQYL--PSvLAQeSVTPYIAMLNCEPIGYAQSYVALGSGDGWEEETDPGRGIDLsIANASQlkgIGTLVRAVELLFDNDPEVTKIOTDPSNSLRAIRCYEKAGFERQGTVTTpdgpavymvqtrqafe-----</p>
143	<p>1s60A (152)</p> <hr/> <p>2fl4A (147)</p>	N	12.24	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=3.29 (Å)  lvprgshmdi rqnkthlehwgrl r kqlwpghpddahl adgee ilqadhlasfi amadgvaigfadas irhdyvngcds spvflg t fvlps frqrgvakqlia avqrgwt nkgc rmas dtspe pti sokvhoal g f e e t e r v i f y r k r c -----  -----gmeihfekvtsdnrkavenlqvf-aEQqAFIE-SMAENLKSdqFPewESAGIYDGNQLGYMYGRWOD-----GRVWDRFLIDQRFGQGYGAACrLLMLKLIeKYQTNKLYLSVYDTNSSAIRLYQLGfVFNGLDtnGermewthq</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=11.98 (Å)  lvprgs--HMDIROMNKTHLEHWGRKOLWPghpddahl adgee ilqadhlasfi amadgvaigfadas irhdyvngcds spvflg t fvlps frqrgvakqlia avqrgwt nkgc rmas dtspe pti sokvhoal g f e e t e r v i f y r k r c -----  -----gmEIHFEKVTSdnrKAVENLQVFAEQqAFIEsMAENLKSdqFPewESAGIYDGNQLGYMYGR---WODR---VWDRFLIDQRFGQGYGAACrLLMLKLIeKYQTNKLYLSVYDTNSSAIRLYQLGfVFNGLDtnGermewthq-----</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=10.20% (15/147) simi=21.77% (32/147)  lvprgshmdi rqnkthlehwgrl r kqlwpghpddahl adgee ilqadhlasfi amadgvaigfadas irhdyvngcds spvflg t fvlps frqrgvakqlia avqrgwt nkgc rmas dtspe pti sokvhoal g f e e t e r v i f y r k r c -----  -----gmeihfekvtsdnrkavenlqvf-aEQqAFIEsMAENLKSdqFPewESAGIYDGNQLGYMYGRWOD-----GRVWDRFLIDQRFGQGYGAACrLLMLKLIeKYQTNKLYLSVYDTNSSAIRLYQLGfVFNGLDtnGermewthq</p> <p>CREMASDTSPEPTISOKVHOALGF-----eetervifyrkr  YLSVY-DT---NSSAIRLYQLGfVFNGLDtnGermewthq-----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.48 (Å)  lvprgsHMDIROMNKTHLEHWGRKOLW--PGHPDDAHADGEEILOADHLASFIAMADVAIGFADASTRHdyvngcdsSPVFLGTFVLPSPFRORGVAKQIIAAVORWGTNKGCREMASDTSPEPTISOKVHOALGFfeeterVIF-----IFYRKRc-----  -----MEIHFEKVTSdnrKAVENLQVFAEQqAFIEsMAENLKSdqFPewESAGIYDGNQLGYMYGRWOD-----GRVWDRFLIDQRFGQGYGAACrLLMLKLIeKYQTNKLYLSVYDTNSSAIRLYQLGfVFNGLDtnGermewthq-----</p>



144	<p>1s60A (152)</p> <p>2f14A (147)</p>	C	11.56	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=3.29 (Å)  lvprgshmdi r qmknk thlehwrglr-----KQ1-WP-GHPDDAHLADGEEILQADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc-----  -----gmeihfekvtsdnrkavenlqvfaEQqAFIE-SMAENLKE-SDQFPWESAGIYDGNQLIGYAMYGRWOD-----GRVWDRFLIDQRFOGQYGAACrLLMLKLI EK YQTNKLYLSVYDTNSSA IRLYQQLG VFN GELDTNG---e rvmewthq</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=11.98 (Å)  lvprgs--HMDIROMNKThleHWRLRKQLWPGHPDDAHLADGEEILO--ADHLASFIAMADGVAIGFADASIRhdYVNGCdsspvVFELEGIFVLPSFRORVAKOLIAAVORWGTN-KGCREMASDTSPE NTI SOKVHVALGFEETERV-----ifyrkrcc  -----gmEIHFEKVTSDN---RKAVENLQVFAEQqAFIESMAENLKEsdqFPWESAGIYDGNQLIGYAMYGR---WODGR-----VWDRFLIDQRFOGQYGAACRLLMLKLI EK YQTNKLYLSVYDTNSSA IRLYQQLG VFN GELd tnger vmewthq-----</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=10.20% (15/147) simi=21.77% (32/147)  lvprgshmdi r qmknk thlehwrglrkqlwpgphddahladgeeilqadhlasfiamadgvaigfadasirhdYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERV-----L TAAVORWGTNKG  -----gmeihfekvtsdnrkavenlqvfaeqqafiesmaenlkesdqfpewesagi ydgnqligyamygrwqdrVFELEGIFVLPSFRORVAKO-----L TAAVORWGTNKG  CREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc  YLSVY-DT---NSSA IRLYQQLG VFN GELd tnger vmewthq-----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=2.36 (Å)  lvprgshmdi r qmknk thlehwrglrkqlw-----P-----ghP-DDAHLADGEEILQADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLIAAVORWGT-NKGCREMASDTSPE NTI SOKVHVALGFEETERV-----RVIFYRkrcc  -----gmeihfekvtsdnrkavenlqvfaeqq--AfIESMAENLKE-SDQFPWESAGIYDGNQLIGYAMYGRWOD-----GRVWDRFLIDQRFOGQYGAACRLLMLKLI EK YQTNKLYLSVYDTNSSA IRLYQQLG VFN GELd tnger VMEWTHQ----</p>
145	<p>1s60A (152)</p> <p>1b6bA (168)</p>	C	12.50	<p><b>TM-align:</b> aliSize=128 (resi) RMSD=3.13 (Å)  lvprgshMDIROMNKThLEHWR-G--LRK-----QLWPgHPDDAHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc-----  -----ANEFNCLTPEDAAGVFeIerEAFisvsgnCPNL-L---De--VQ-HF--TLCPeLSLGFVEVRLVA--IIGSLWDEERL---tqeslalhrprGHSAHHALAHRSFRCQCKGSLWRYLhHVGAQPAVRAVLMCED--A-LVPFYQRFQHPAGPCAIV---vgs1tftemhcslrghaal</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=7.32 (Å)  lvprgshmdi r qmknk thlehwrglrkqlwpgphddahladgeeilqadhla-----SFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTN-KGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc-----  -----anefncltpedaagvfeiereafisvsgncplnldvqhfltlcpeLSLGFVEVRLVA--IIGSLWDEERL---tqeslalhrprGHSAHHALAHRSFRCQCKGSLWRYLhHVGAQPAVRAVLMCEDA---LVPFYQRFQHPAGPCAIV---vgs1tftemhcslrghaal</p> <p>ALGFEET-----TERVIFYRKR-----c  RFGHPagpcAivvgSLTFTEMHCSlrghaal-</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=5.26% (8/152) simi=7.24% (11/152)  lvprgshmdi r qmknk thlehwrglrkqlwpgphddahladgeeilqadhlasfiamadgvaigfadasirhdYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc-----  -----anefncltpedaagvfeiereafisvsgncplnldvqhfltlcpeLSLGFVEVRLVA--IIGSLWDEERL---tqeslalhrprGHSAHHALAHRSFRCQCKGSLWRYLhHVGAQPAVRAVLMCEDA---LVPFYQRFQHPAGPCAIV---vgs1tftemhcslrghaal</p> <p>I  LwrylhvgaqavrravlmcedalvpfyqrfghpagpcAivvgSLTFTEMHCSlrghaal-----aavqrgwtngkcremasdtspe NTI SOKVHVALGFEETERVIFYRkrcc</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=2.57 (Å)  lvprgshMDIROMNKThLEHWR-G--LrkQ-----LW-pgHPDDAHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc-----  -----ANEFNCLTPEDAAGVFeIerE--Afisvsgncpln-L---De--VQ-HF--TL-CPeLSLGFVEVRLVA--IIGSLWDEERL---tqeslalhrpr---GHSAHHALAHR-SFRCQCKGSLWRYLhHVGAQPAVRAVLMCED--A-LVPFYQRFQHPAGPCAIVvgSLtftEMHCSlrghaal</p> <p>----c  haal-</p>
146	<p>1s60A (152)</p> <p>2pr1A (152)</p>	C	8.55	<p><b>TM-align:</b> aliSize=128 (resi) RMSD=3.10 (Å)  lvprgshMDIROMNKThLEHWRGLRKQLWPGHPDDAHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc-----  -----MTKVERLLIN-YKTL EEFKFKKEYIQELSMLEELqdnii--ndST---SPFYGIYFGDKLVARMSLYQVNGKSNPYFhRQDYLELWKLEVLPGYQNRGYGRAVVEFAKS-FK---M-PIRTNPR--MKS-AEFWNKMNFKTKYdmarDKGE-----dpliwHPdmdr</p> <p><b>SARST:</b> aliSize=130 (resi) RMSD=9.13 (Å)  lvprg--SHMDIROMNKThleHWRLRKQLWPGHPDDAHLADGEEILOADHLASFIAMADGVAIGFADASIR---HDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKV-----HOALGFEETERVIFYRKR-----c  -----mTKVERLLIN-----YKTL EEFKFKKEYIQELSMLEELqdnii--ndST---SPFYGIYFGDKLVARMSLYQVNGKSNPYFhRQDYLELWKLEVLPGYQNRGYGRAVVEFAKS-FK---M-PIRTNPR--MKS-AEFWNKMNFKTKYdmarDKGE-----EDPLIWHPDmdr-</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=5.26% (8/152) simi=9.21% (14/152)  lvprgs-----mtkverllinyktleefkfkkeyiqelsmleelqdniiendstspfygiyfgdklvarmslyqvgkspYFDNRQ---DYLELWKLEVLPGYQNRGYGRAVVEFAKS-FK---M-PIRTNPR--MKS-AEFWNKMNFKTKYdmarDKGE-----dpliwHPdmdr-----  gvaigfadasirhdYVNGCDSSPVVFELEGIFVLPSFRORVAKOLIAAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRkrcc</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=2.38 (Å)  lvprgshMDIROMNKThLEHWRGLRKQLWPGHPDDAHLADGEEILOADHLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFELEGIFVLPSFRORVAKOLI-AAVORWGTNKGCREMASDTSPE NTI SOKVHVALGFEETERVIFYRKR-----  -----MTKVERLLIN--NyKT-LEEFKFKKEYIQ-ELSMLEELqdniiend--S-TS---SPFYGIYFGDKLVARMSLYQVNGKSNPYFhRQDYLELWKLEVLPGYQNRGYGRAVVEFAKS-FK---M-PIRTNPR--MKS-AEFWNKMNFKTKYdmarDKGEdPLIWHPDmdr-</p>

147	<p>1s60A (152)</p> <p>1xebA (149)</p>	C	10.74	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.63 (Å)  lvprgshMDIROMKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASIRH-DYvngcdsSPVVFLEGI FVLPSFRORVAKOLIAAVORWGTNKGCR-EMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----  -----SLDWTCKhhdLTlKEIYALLOLrTeVfVveqkCPYQ--EV-DG--LDL--VGDTHHL--WRXQLLAYLRLLDpvrHE-----GQVVI GRVSSSAAGGCLGHOL-ERALQAAERLWLDtPVYLSAQ--H-LAYYGR-YGFVAVTEVY----leddiphigra</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=8.19 (Å)  lvprgshMDIROMKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASTRHdyvngcdsSPVVFLEGI FVLPSFRORVAKOLIAAVORWGTNKGCR-EMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  -----SLDWTCKhhdLTlKEIYALLOLrTeVfVveqkCPYQ--EV-DG--LDL--VGDTHHL--WRXQLLAYLRLLDpvrHE-----GQVVI GRVSSSAAGGCLGHOL-ERALQAAERLWLDtPVYLSAQ--H-LAYYGR-YGFVAVTEVY----leddiphigra</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=5.48% (8/149) simi=10.96% (16/149)  lvprgshmdi rqnkthlehwgrl rklwpghpddahladgeeilqadhl asfi amadgvaigfada--SIRHD-----yveeilloadtl asfi amadgvaigfada--SIRHD-----yv  -----SLDWTCKhhdLTlKelyal lqlrtevfveqkcpqyevDCLDLVGDTHHL--WRXQLLAYLRLLDpvrHE-----GQVVI GRVSSSAAGGCLGHOL-ERALQAAERLWLDtPVYLSAQ--H-LAYYGR-YGFVAVTEVY----leddiphigra</p> <p>ngcdsspvvflegifvlpsfrqrgvakqliaavqrgwtngkcremasdtspentisqkvhqaigfeeterVifyrkrc</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=2.44 (Å)  lvprgshMDIROMKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASIRH-DYvngcdsSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----IFYKrc  -----SLDWTCKhhdLTlKEIYALLOLrTeVfVveqkCPYQ--EV-DG--LDL--VGDTHHL--WRXQLLAYLRLLDpvrHE-----GQVVI GRVSSSAAGGCLGHOL-ERALQAAERLWLDtPVYLSAQ--H-LAYYGR-YGFVAVTEVY----leddiphigra</p>
148	<p>1s60A (152)</p> <p>2fckA (174)</p>	N	8.55	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=3.06 (Å)  lvprgs-----HMDIROMNKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASIRHdyvngcdSSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  -----tpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=4.00 (Å)  lvprgs-----HMDIROMNKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASTRHdyvngcdsSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  -----tpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=7.89% (12/152) simi=15.79% (24/152)  lvprgshmdi rqnkthlehwgrl rklwpghpddahladgeeilqadhl asfi amadgvaigfadasirhdyvngcdsspvvfle-----tpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p>AKOLIAAV-----ORWGTNKGCR-EMASDTS-PENTISOKVVHQAIGFEETERVIFyrkrc-----rkrc  GKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p><b>Proposed:</b> aliSize=139 (resi) RMSD=2.60 (Å)  LV-PRGSH--MDIROMNKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASTRHdyvngcdSSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  MTPDFQIVtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p>
149	<p>1s60A (152)</p> <p>2fckA (174)</p>	C	9.21	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=3.06 (Å)  lvprgs-----HMDIROMNKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASIRHdyvngcdSSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  -----tpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=4.00 (Å)  lvprgs-----HMDIROMNKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASTRHdyvngcdsSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  -----tpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=7.89% (12/152) simi=15.79% (24/152)  lvprgshmdi rqnkthlehwgrl rklwpghpddahladgeeilqadhl asfi amadgvaigfadasirhdyvngcdsspvvfle-----tpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p>AKOLIAAV-----ORWGTNKGCR-EMASDTS-PENTISOKVVHQAIGFEETERVIFyrkrc-----rkrc  GKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.58 (Å)  lvprgsh-----MDIROMNKTHLEHWRGLRkqlwpghpDDAHLADGEEILQADHLASFIAMADGVAIGFADASTRHdyvngcdSSPVVFLEGI FVLPSFRORVAKOLIAAVORWGT-NKGCRESMASDTSPenTisKVVHQAIGFEETERVIFyrkrc-----rkrc  -----mtpdfqivtqRLQLRLITADEAeELVQCIRqSqtLHQwvDWFSqQEAEQFIQATRLNwvkaeAYGFGVFERQTQTLVGVAINEFYH-----TFNA-SGYWIG-DRYQROCYGKEALTALILFCFeRLELRLTRLEIVCDPENVPsQALALRCANREQLAPNrflyagep--kagivfslip</p>

150	<p><b>ItiyA (157)</b></p> <hr/> <p><b>2g84A (189)</b></p>	C	26.11	<p><b>TM-align:</b> aliSize=116 (resi) RMSD=1.45 (Å)  mndalhiglpplvqanneprvlaAPARMGYVLEVRANIAADGGPFAAVFERdSLLLAATNRVPGRCSAAHAEILALSLQAKDTHDLSadglpACEVTSAEPCVMCFGAVISGVRSLVCAARSDVEAIFGDE--GPR-PE-----nwm</p> <p>-----  <b>ggleargi</b>tvttgllrdaacallreynacngviynarc</p> <p><b>SARST:</b> aliSize=143 (resi) RMSD=18.07 (Å)  n-----HETFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDDsFIYKEIDKpaertipfvavtltelhsfqaawrnfankevl---</p> <p>-----keyl  viynarc----</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=23.23% (36/157) simi=30.97% (48/157)  nhetflkravtlacegvn-----MNHHTFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDD-----KACKVlgayqlddciiYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDD-----FDDSFIYKEIDKpaertipfvavtltelhsfqaawrnfankevl---</p> <p>-----  mndalhiglpplvqanneprvlaapearmgyvlelvraniADGGPFAAVFERdSLLLAATNRVPGRCSAAHAEILALSLQAKDTHDLSadglpACEVTSAEPCVMCFGAVISGVRSLVCAARSDVEAIFGDEgprPENWMGGLEARG-----ITVTTGLRDAACALLREYNACNG</p> <p>-----  sfiykeidkpaertipfyqvvtltelhsfqaawrnfankeyl</p> <p>-----  <b>Proposed:</b> aliSize=146 (resi) RMSD=1.49 (Å)  mndalhiglpplvqanneprvlaAPARMGYVLEVRANIAADGGPFAAVFERdSLLLAATNRVPGRCSAAHAEILALSLQAKDTHDLSadglpACEVTSAEPCVMCFGAVISGVRSLVCAARSDVEAIFGDEgpr-----PENWMGGLeaRgITVTTGLRDAACALLREYNACNG</p> <p>-----keyl  iynarc----</p>
151	<p><b>ItiyA (157)</b></p> <hr/> <p><b>IwwrA (154)</b></p>	C	29.22	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=1.71 (Å)  gshmgKYYELVLRREKRAFEK-EVVGAIIVKEEELSKAHNSVEELKDPTAHAEMLAKEACRRNTKYEGEELYVTLEPCIMSYALVLSIEKIFSLDK-----KHG--gvsvf-nl-----ldeptlnhrvkwyypleasells</p> <p>-----  effkklrnnii</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=0.97 (Å)  n-----HETFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDDsFIYKEIDKpaertipfvavtltelhsfqaawrnfankevl---</p> <p>-----  -<b>l</b>tehlspfqawrnfankeyl</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=33.12% (51/154) simi=49.35% (76/154)  nh-----HETFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDDsFIYKEIDKPAEERTI--PFYQV-TLTELHSPFOAWRN---fankkeyl</p> <p>-----  -<b>l</b>tehlspfqawrnfankeyl</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=1.72 (Å)  gshmgKYYELVLRREKRAFEK-EVVGAIIVKEEELSKAHNSVEELKDPTAHAEMLAKEACRRNTKYEGEELYVTLEPCIMSYALVLSIEKIFSLDKkhggvsv-----F--NiLDEPtLnHRVkwEYYPLeEASELSEfKklRnnii--</p>
152	<p><b>ItiyA (157)</b></p> <hr/> <p><b>2b3jA (151)</b></p>	C	29.14	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=1.81 (Å)  mndihymtlAIEEKAAQ-LGEVIGAITKDEVLARAHNLRETLQOPTAHAEHIAERAAKVLGSRWLEGTLYVTLEPCVMCAITVMSRIPRVVYGDdpkggcsGslmnlqqsnfnhrAIVDKGVLKEACSTLLT</p> <p>-----  ffknlran</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=3.42 (Å)  n-----HETFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDDsFIYKEIDKpaertipfvavtltelhsfqaawrnfankevl---</p> <p>-----  nfankeyl</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=28.48% (43/151) simi=36.42% (55/151)  nhetflkra-----MNHHTFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDD-----KACKVlgayqlddciiYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDD-----FDDSFIYKEIDKpaertipfvavtltelhsfqaawrnfankevl---</p> <p>-----  mndihymtlAIEEKAAQ-LGEVIGAITKDEVLARAHNLRETLQOPTAHAEHIAERAAKVLGSRWLEGTLYVTLEPCVMCAITVMSRIPRVVYGDdpkggcsGslmnlqqsnfnhrAIVDKGVLKEACSTLLTffknlran</p> <p>-----  qvtltelhsfqaawrnfankeyl</p> <p><b>Proposed:</b> aliSize=133 (resi) RMSD=1.59 (Å)  m-----HETFLKRAVTLACEGVNAIGGPFAGAVIVKDAIAGONNVTTSDPTAHAEVTAIRKACKVLAGAYODDIIYTSCEPCPCLGAIYWARPKAVFYAAEHTAAEAAGFDDsFIYKEIDKPAEERTI--PFYQV-TLTELHSPFOAWRN---AnKKE---yl</p> <p>-----  -<b>l</b>tehlspfqawrnfankeyl</p>

153	<p><b>ItiyA (157)</b></p> <hr/> <p><b>2nx8A (168)</b></p>	C	24.20	<p><b>TM-align:</b> aliSize=109 (resi) RMSD=2.05 (Å)  -----NHETFLKRAVTLACEGVNAGIGGFAGAVIKDGAIAECONNVTTSDPTAHAEVTAIRKACKVLGAYOIDDCLYTSCEPCPLGAIYWARPKAFYAAEHTdaaeafDDSFfi---YKe-Idknaeertipfvavltlthlsnfqawrnfankeyl-----  sflmpysleeQTYFMQEALKESEKSLQ-KAEIIFICCVIKDGEIIGRCHAREESNOAIMHAEMMAINEANAHECNWRLDITTFVTIEPCVMCSGAIGLARIPHIYGASNQK-----KFGG-vdsLY-qI-----ltderlnhrvqvergllaadcanimqiffrqgrerkkiakhlke</p> <p><b>SARST:</b> aliSize=140 (resi) RMSD=16.54 (Å)  n-----HETFLKRAVTLACEGVNAGIGGFAGAVIKDGAIAECONNVTTSDPTAHAEVTAIRKACKVLGAYOIDDCLYTSCEPCPLGAIYWARPKAFYAAEHTdaaeafDDSFfiY-KEIDKPAEERTIPFYOVTLTEHLSPFQAWRN-----fankkeyl  -sflmpysleeQTYFMQEALKESEKSLQKAEIIFICCVIKDGEIIGRCHAREESNOAIMHAEMMAINEANAHECNWRLDITTFVTIEPCVMCSGAIGLARIPHIYGASNQK-----FGVDLSLYQILTDERLNHRVQVERGLLAADCANIMQTFfrqgrerkkiakhlke-----</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=23.23% (36/157) simi=27.74% (43/157)  nhetflkravtlacegvnagiggfagavikdgaiaeconnvttspdhahaevtairkackvlgayoiddcliytscepcplgaiywarpkafyaaeh-----tdaeagfddsfiykeidkpaertipfyqvltlthlsnfqawrnfankeyl  -----sflmpysleeqtyfmqalkeseksqkiaeifigcviykdgeiigrchareesnoaimhaemmineanahecnwrlitfvtiepcvmcsaiqlariphiiygasnqkfggvdsllyqiltderlnhrvqvergllaadcanimqiffrqgrerkkiakhlke</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=1.92 (Å)  -----MNHETFLKRAVTLACEGVNAGIGGFAGAVIKDGAIAECONNVTTSDPTAHAEVTAIRKACKVLGAYOIDDCLYTSCEPCPLGAIYWARPKAFYAAEHT-----T-DAAEaafD-dSFivkEidknaeERTIPFY--O---V---tlteH-LSPFOAWRNFA--nkkeyl  sflmpysleeQTYFMQEALKESEKSLQKAEIIFICCVIKDGEIIGRCHAREESNOAIMHAEMMAINEANAHECNWRLDITTFVTIEPCVMCSGAIGLARIPHIYGASNQKfggvdsllyqiltDerLNHR---Vq-VE---R-----GLLAADcaNimqTffr---QgRERKIAKHLIke-----</p>
154	<p><b>ItiyA (157)</b></p> <hr/> <p><b>1z3aA (156)</b></p>	C	25.64	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=1.79 (Å)  -----NHETFLKRAVTLACEGVNAGIGGFAGAVIKDGAIAECONNVTTSDPTAHAEVTAIRKACKVLGAYOIDDCLYTSCEPCPLGAIYWARPKAFYAAEHTdaaeafDDSFfi---YKe-Idknaeertipfvavltlthlsnfqawrnfankeyl-----  sevefSHEYWMRHALTLAKRAWDER-EVAVLHNNRVIGEGWRPIGRHDPTAHAEIMALROGGLMQNRIIDATLYVTLEPCVMCAIGAMIHSRIGRVFGARDAKTGAAGSImdvllhpgmnhrvitegiladecaallsdffrmrreqik</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=1.10 (Å)  n-----HETFLKRAVTLACEGVNAGIGGFAGAVIKDGAIAECONNVTTSDPTAHAEVTAIRKACKVLGAYOIDDCLYTSCEPCPLGAIYWARPKAFYAAEHTdaaeafDDSFfiY-KEIDKPAEERTIPFYOVTLTEHLSPFQAWRN-----htdaaeagfddsfiykeidkpaertipfyqv  -sevefSHEYWMRHALTLAKRAWDER-EVAVLHNNRVIGEGWRPIGRHDPTAHAEIMALROGGLMQNRIIDATLYVTLEPCVMCAIGAMIHSRIGRVFGARDAKTGAAGSImdvllhpgmnhrvitegiladecaallsdffrmrreqik-----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=26.45% (41/156) simi=38.71% (60/156)  sevefSHEYWMRHALTLAKRAWDER-EVAVLHNNRVIGEGWRPIGRHDPTAHAEIMALROGGLMQNRIIDATLYVTLEPCVMCAIGAMIHSRIGRVFGARDAKTGAAGSImdvllhpgmnhrvitegiladecaallsdffrmrreqik  qawrnfankeyl</p> <p><b>Proposed:</b> aliSize=135 (resi) RMSD=1.62 (Å)  -----MNHETFLKRAVTLACEGVNAGIGGFAGAVIKDGAIAECONNVTTSDPTAHAEVTAIRKACKVLGAYOIDDCLYTSCEPCPLGAIYWARPKAFYAAEHT-----daaeafddsfiykeidkP-AE-E-RTIPFYOVTLTEHLSPFQAWRN--ANKK-----eyl  sevefSHEYWMRHALTLAKRAWDER-EVAVLHNNRVIGEGWRPIGRHDPTAHAEIMALROGGLMQNRIIDATLYVTLEPCVMCAIGAMIHSRIGRVFGARDAKTGAAGSImdvllhpgmnhrvitegiladecaallsdffrmrreqik-----</p>
155	<p><b>2p1jA (164)</b></p> <hr/> <p><b>1j53A (174)</b></p>	C	29.27	<p><b>TM-align:</b> aliSize=143 (resi) RMSD=1.75 (Å)  TFVVLDFETIGLD-----POVDEIIEIGAVKIQQGOIV-DEYITLIKPSREISRKSSSETITGTOEMENKRSTEEVLPFLGFLEDSIIIVANNANFYRFLRLWIKKV-MGLDWER---RYPYITLALAKSLLKLRYSYSLDSVVEKLGgPFRHHRaldarvtaqvflrfvemmm-----  ROIIVLITETGMNqigahyEGHKLEIGAVEVNRRLTgNNFVYLLKPDRLVDPEAFGVHGIADEFLLDKPTFAEVADEFMDYIRGAELIINAAFIIGMDYEFSLKRDIPKtntfckvTSLAVARKMFPGRNSLDALCARYEIDNSKR-----tHgalldaquilaevy</p> <p><b>SARST:</b> aliSize=155 (resi) RMSD=7.89 (Å)  t--FVVLDFETIGLD-----LDPO-VDEIIEIGAVKIQQGOIV-DEYITLIKPSREISRKSSSETITGTOEMENKRSTEEVLPFLGFLEDSIIIVANNANFYRFLRLWIKKV-MGLDWER---RYPYITLALAKSLLKLRYSYSLDSVVEKLGgPFRHHRaldarvtaqvflrfvemmm  -rQIIVLITETGMNqigahyEGHKLEIGAVEVNRRLTgNNFVYLLKPDRLVDPEAFGVHGIADEFLLDKPTFAEVADEFMDYIRGAELIINAAFIIGMDYEFSLKRDIPKtntfckvTSLAVARKMFPGRNSLDALCARYEIDNSKRtHgalldaquilaevy</p> <p><b>BLAST:</b> aliSize=91 (resi) iden=30.49% (50/164) simi=55.49% (91/164)  tf--VVLDFETIGLD-----OVDEIIEIGAVKIQQGOIV-DEYITLIKPSREISRKSSSETITGTOEMENKRSTEEVLPFLGFLEDSIIIVANNANFYRFLRLWIKKV-MGLDWER---RYPYITLALAKSLLKLRYSYSLDSVVEKLGgPFRHHRaldarvtaqvflrfvemmm  --rqIIVLITETGMNqigahyEGHKLEIGAVEVNRRLTgNNFVYLLKPDRLVDPEAFGVHGIADEFLLDKPTFAEVADEFMDYIRGAELIINAAFIIGMDYEFSLKRDIPKtntfckvTSLAVARKMFPGRNSLDALCARYEIDNSKRtHgalldaquilaevy</p> <p><b>Proposed:</b> aliSize=156 (resi) RMSD=1.49 (Å)  TFVVLDFETIGLD-----DPOVDEIIEIGAVKIQQGOIV-DEYITLIKPSREISRKSSSETITGTOEMENKRSTEEVLPFLGFLEDSIIIVANNANFYRFLRLWIKKV-MGLDWER---RYPYITLALAKSLLKLRYSYSLDSVVEKLGgPFRHHRaldarvtaqvflrfvemmm  ROIIVLITETGMNqigahyEGHKLEIGAVEVNRRLTgNNFVYLLKPDRLVDPEAFGVHGIADEFLLDKPTFAEVADEFMDYIRGAELIINAAFIIGMDYEFSLKRDIPKtntfckvTSLAVARKMFPGRNSLDALCARYEIDNSKRtHgalldaquilaevy</p>

156	<p>2p1jA (164)</p> <p>2iocB (220)</p>	C	<p>25.00</p> <p>TM-align: aliSize=144 (resi) RMSD=2.48 (Å)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLE---D-SIIVAHNANFYRFRRLWTKKVMGLDWE-RPYITDLALAKSLLK--LRSYSIDSVVEKGLGPERHHRalddarvtaq  hghqTLIFDLEATGLPSSRPVITLCLLAVHrralentsisqghppvprpPrVVDKLSLCAFGKACSPGASEITGLSKAELevqGRQRFDDNLAILLRAFLQRpQpCCLVAHNGDrYDFPLQTELARLSTPSpLDgTFCVDSIALKALEQasRKSYSLGSIYTRLYWQAPTDS-----  vflrfvemmm-----  -----htaegdvltllsicqwkpqallqwdeharpfstvkpyg-----</p> <p>SARST: aliSize=156 (resi) RMSD=8.75 (Å)  t-----FVVLDFETTGLDPOVDLIIIEIGAVKIOGG-----QGOIV-----DEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLEDSIIVAH--NANFDYRFRRLWTKKVMGLDW---ERPYITDLALAKSLL--LRSYSIDSVVEKGLGPF--RHHRALDDAR  -hghqTLIFDLEATGLPSSRPVITLCLLAVHrralentsisqGHPPVprprvVVDKLSLCAFGKACSPGASEITGLSKAELevqGRQRFDDNLAILLRAFLQRpQpCCLVAHNGDrYDFPLQTELARLSTPSpLDgTFCVDSIALKALEQasRKSYSLGSIYTRLYWQAPTDSHTAEGDVLTL  VTAOVF-----lrfvemmm  LSICQWkpqallqwdeharpfstvkpyg-----</p> <p>BLAST: aliSize=82 (resi) iden=30.49% (50/164) simi=50.00% (82/164)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLEDSIIVAH--NANFDYRFRRLWTKKVMGLDW---ERPYITDLALAKSLL--LRSYSIDSVVEKGLGPERHHRALD-----  hghqTLIFDLEATGLPSSRPVITLCLLAVHrralentsisqGHPPVprprpVVDKLSLCAFGKACSPGASEITGLSKAELevqGRQRFDDNLAILLRAFLQRpQpCCLVAHNGDrYDFPLQTELARLSTPSpLDgTFCVDSIALKALEQasRKSYSLGSIYTRLYWQAPTDSHTAEGDVLTL  -----arvtaqvflrfvemmm  lsicqwkpqallqwdeharpfstvkpyg-----</p> <p>Proposed: aliSize=155 (resi) RMSD=2.06 (Å)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLE---D-SIIVAHNANFYRFRRLWTKKVMGLDWE-RPYITDLALAKSLLK--LRSYSIDSVVEKGLGPF--RHHRALDDAR  hghqTLIFDLEATGLPSSRPVITLCLLAVHrralentsisqghppvprpPrVVDKLSLCAFGKACSPGASEITGLSKAELevqGRQRFDDNLAILLRAFLQRpQpCCLVAHNGDrYDFPLQTELARLSTPSpLDgTFCVDSIALKALEQasRKSYSLGSIYTRLYWQAPTDSHTAEGDVLTL  LDDARVTAOVFLRFVEM-----m  EGDVLTLLSICQWKPAAlqwdeharpfstvkpyg-----</p>
157	<p>2p1jA (164)</p> <p>2d5rA (252)</p>	C	<p>18.90</p> <p>TM-align: aliSize=140 (resi) RMSD=2.69 (Å)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLE---D-SIIVAHNANFYRFRRLWTKKVMGLDWE-RPYITDLALAKSLLK--LRSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  ricevwacnldemkkrqvirkyNYAMTTFPvvarpigefrsnadyqyqlrcnVDLLKIQQLTFMNeQYEPpgtSTWQFNFNltEDMYaQDSIELLTtsgIQFKKHeEGIEIQYFAELLMtSGVvlcegVKWLSFHSGYDFGYIKILTNSnLpeeldffeILrlfFpVIYVVKY  AKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  MKSCKNLKGGLOEVAQOLELERIGPqhagsdslltgmaffkmremffedhiddakycghlygl</p> <p>SARST: aliSize=136 (resi) RMSD=7.86 (Å)  tfvvdftettgld-----ricevwacnldemkkrqvirkyNYAMTTFPvvarpigefrsnadyqyqlrcnVDLLKIQQLTFMNeQYEPpgtSTWQFNFNltEDMYaQDSIELLTtsgIQFKKHeEGIEIQYFAELLMtSGVvlcegVKWLSFHSGYDFGYIKILTNSnLpeeldffe  -----RPIYDTLALAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  lrlfFpVIYVVKYMKSCNLSKGGLOEVAQOLELERIGPqhagsdslltgmaffkmremffedhiddakycghlygl-----</p> <p>BLAST: aliSize=27 (resi) iden=12.80% (21/164) simi=16.46% (27/164)  tfvvdftettgldpqvdeieiegavkiqggqivdeyhtlikpsreisrksseitgitqemlenksieevlpeflgfledsiivahnandfyrlrlwikvmlgdwer-----ricevwacnldemkkrqvirkyNYAMTTFPvvarpigefrsnadyqyqlrcnVDLLKIQQLTFMNeQYEPpgtSTWQFNFNltEDMYaQDSIELLTtsgIQFKKHeEGIEIQYFAELLMtSGVvlcegVKWLSFHSGYDFGYIKILTNSnLpeeldffe  -----RPIYDTLALAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  tstwqfnfknltdmyaqsdielttsgiqfkkheegietqyfaelmtsgvvlcegvkwlshfsgydfgylikiltnsnlpeeldffeilrlfFpVIYVVKYMKSCNLSKGGLOEVAQOLELERIGPqhagsdslltgmaffkmremffedhiddakycghlygl-----m</p> <p>Proposed: aliSize=153 (resi) RMSD=2.14 (Å)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLE---D-SIIVAHNANFYRFRRLWTKKVMGLDWE-RPYITDLALAKSLLK--LRSYSIDSVVEKGLGPF--RHHRALDDAR  ricevwacnldemkkrqvirkyNYAMTTFPvvarpigefrsnadyqyqlrcnVDLLKIQQLTFMNeQYEPpgtSTWQFNFNltEDMYaQDSIELLTtsgIQFKKHeEGIEIQYFAELLMtSGVvlcegVKWLSFHSGYDFGYIKILTNSnLpeeldffe---lrlfFpVIYVVKY  LAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  KYMKSCNLSKGGLOEVAQOLELERIGPqhagsdslltgmaffkmremffedhiddakycghlygl-----</p>
158	<p>2p1jA (164)</p> <p>2p51A (255)</p>	C	<p>17.68</p> <p>TM-align: aliSize=138 (resi) RMSD=2.65 (Å)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLE---D-SIIVAHNANFYRFRRLWTKKVMGLDWE-RPYITDLALAKSLLK--LRSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  sqispirdvwstnlqqemnlmslieryPVSMITFPvvarplgvfksddyhyqtlranVDSLKIQQLGALSDEEGNAPveActWQFNFTFNlqDDMYapesIELLTksgIDFKKHqVGIEPADFAELLIGSGvlqEVTWITFHSGYDFAYLLKAMTQI---plpaeyefykILcIyFpKNY  TLALAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  IKYIMsvLNN-SKGLQDIADDQIHRIGPqhagsdslltariffairsryfdgsidsrmlnlygl</p> <p>SARST: aliSize=154 (resi) RMSD=11.61 (Å)  tf-----sqispirdvwstnlqqemnlmslieryPVSMITFPvvarplgvfksddyhyqtlranVDSLKIQQLGALSDEEGNAPveActWQFNFTFNlqDDMYapesIELLTksgIDFKKHqVGIEPADFAELLIGSGvlqEVTWITFHSGYDFAYLLKAMTQI---plpaeyefykILcIyFpKNY  YITLALAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  NYIKYIMsvLNN-SKGLQDIADDQIHRIGPqhagsdslltariffairsryfdgsidsrmlnlygl-----</p> <p>BLAST: aliSize=32 (resi) iden=10.98% (18/164) simi=19.51% (32/164)  tfvvdftettgldpqvdeieiegavkiqggqivdeyhtlikpsreisrksseitgitqemlenksieevlpeflgfledsiivahnandfyrlrlwikvmlgdwer-----sqispirdvwstnlqqemnlmslieryPVSMITFPvvarplgvfksddyhyqtlranVDSLKIQQLGALSDEEGNAPveActWQFNFTFNlqDDMYapesIELLTksgIDFKKHqVGIEPADFAELLIGSGvlqEVTWITFHSGYDFAYLLKAMTQI---plpaeyefykILcIyFpKNY  -----RPIYDTLALAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  fnftfnlqddmyapesielksgidfkqhqvgeiepadfaelligsgvlqeevtwitfhsgydfayllkamtqiplpaeyefyILCIYFPKNYIKYIMsvLNN-SKGLQDIADDQIHRIGPqhagsdslltariffairsryfdgsidsrmlnlygl-----</p> <p>Proposed: aliSize=152 (resi) RMSD=2.23 (Å)  -----TFVLDLDFETTGLDPOVDLIIIEIGAVKIOGG-----Q-IVDEYHTLTKPSREISRKSSSEITGITOEMLE--NKRSIEEVLPEFLGFLE---D-SIIVAHNANFYRFRRLWTKKVMGLDWE-RPYITDLALAKSLLK--LRSYSIDSVVEKGLGPF--RHHRALDDAR  sqispirdvwstnlqqemnlmslieryPVSMITFPvvarplgvfksddyhyqtlranVDSLKIQQLGALSDEEGNAPveActWQFNFTFNlqDDMYapesIELLTksgIDFKKHqVGIEPADFAELLIGSGvlqEVTWITFHSGYDFAYLLKAMTQI---plpaeyefykILcIyFpKNY  YITLALAKSLLKLSYSIDSVVEKGLGPERHHRalddarvtaqvflrfvemmm-----  NYIKYIMsvLNN-SKGLQDIADDQIHRIGPqhagsdslltariffairsryfdgsidsrmlnlygl-----</p>

159	<p>2pljA (164)</p> <p>1wljA (168)</p>	C	19.51	<p>TM-align: aliSize=131 (resi) RMSD=2.97 (Å)  TFVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  EVVAMCMVGLG-phRESGLARCSLVNVHGAVALYDKFIRPEGETDYRTRVSVTPQHMVGATPFAVARLEIQLKGLKLVGDLKHDFQAK--KED-----MSGTYIDTSTDRILWREAKL--VSRVLSERLLHKSIQNS-----llghsvedaratmelyqisqr</p> <p>-----  irarrglprla</p> <p>SARST: aliSize=149 (resi) RMSD=10.94 (Å)  t---FVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  -eVAMCMVGLG-phRESGLARCSLVNVHGAVALYDKFIRPEGETDYRTRVSVTPQHMVGATPFAVARLEIQLKGLKLVGDLKHDFQAK-----LKEmsgYTYIDTSTDRILWREAKL--LVSRVLSERLLHKSIQNSllghsSVEDARATMELYQISQRIrarrglprla--</p> <p>BLAST: aliSize=71 (resi) iden=21.34% (35/164) simi=43.29% (71/164)  tf---FVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  --evAMCMVGLG-phRESGLARCSLVNVHGAVALYDKFIRPEGETDYRTRVSVTPQHMVGATPFAVARLEIQLKGLKLVGDLKHDFQAK-----EDMSYTYIDTSTDRILWREAKLVS--VLS--ERLLHKSIQNSLLGHSSVEDARATMELYQISQRIrarrglprla-----</p> <p>Proposed: aliSize=146 (resi) RMSD=2.14 (Å)  TFVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  EVVAMCMVGLG-phRESGLARCSLVNVHGAVALYDKFIRPEGETDYRTRVSVTPQHMVGATPFAVARLEIQLKGLKLVGDLKHDFQAK--KE-----DmsGYTYIDTSTDRILWREAKL--VSRVLSERLLHKSIQNSllghsSVEDARATMELYQISQRIrarrglprla</p>
160	<p>2pljA (164)</p> <p>2gbzA (179)</p>	C	15.85	<p>TM-align: aliSize=132 (resi) RMSD=3.01 (Å)  --TFVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  ndRLIWDLEMTGLDTRDSITEATIVTDAQINVLAEgPELAIAHSIETLEaMdeWRNQRrsGLW-QRVLDSQVTHAQAEQTVAFIgewiRAGASPMCGNSICQDRFLHROMS--R-ERyFHyRNLVSTIKEL-ARRW-----aPA-VASGFA-KSSA-----htals</p> <p>-----  dvrdsidelrhyrqfmggtlgg</p> <p>SARST: aliSize=150 (resi) RMSD=10.12 (Å)  t---FVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  -ndrLIIWDLMTGLDTRDSITEATIVTDAQINVLAEgPELAIAHSIETLEaMdeWRNQRrsGLW-QRVLDSQVTHAQAEQTVAFIgewiRAGASPMCGNSICQDRFLHROMS--R-ERyFHyRNLVSTIKEL-ARRW-----RWAPAVASGFAKSSAHTALSVDSDIDELRHYRQfmggtlgg--</p> <p>BLAST: aliSize=38 (resi) iden=16.46% (27/164) simi=23.17% (38/164)  tfv-----LDFEITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  ---ndrliwLIDLEMTGLDTRDSITEATIVTDAQINVLAEgPELAIAHSIETLEaMdeWRNQRrsGLW-QRVLDSQVTHAQAEQTVAFIgewiRAGASPMCGNSICQDRFLHROMS--R-ERyFHyRNLVSTIKEL-ARRW-----RWAPAVASGFAKSSAHTALSVDSDIDELRHYRQfmggtlgg--</p> <p>---kvmgldwerpyidtlalaksllklrsysldsvveklglgprhhralddarvtaqvflrfvemmm  lgg-----</p> <p>Proposed: aliSize=136 (resi) RMSD=2.09 (Å)  --TFVLDFFITGLDPOVDEITEIGAVKIOGGQIVDEYHTLTKPSREISRKSSSEITGITQEMLENKRSTEEVLPPELGFEDSIIVAHNAFYRFRLWIKKVMGLDWERPYIDTLALAKSLKRSYSDSVVEKLGPGFRHHRalddarvtaqvflrfvemmm-----mm  ndRLIWDLEMTGLDTRDSITEATIVTDAQINVLAEgPELAIAHSIETLEaMdeWRNQRrsGLW-QRVLDSQVTHAQAEQTVAFIgewiRAGASPMCGNSICQDRFLHROMS--R-ERyFHyRNLVSTIKEL-ARRW-----RWAPAVASGFAKSSAHTALSVDSDIDELRHYRQfmggtlgg--</p> <p>TAOVFLRFVEMM-----  SIDELRHYRQfmggtlgg</p>
161	<p>2jevA (169)</p> <p>lyreA (183)</p>	C	10.65	<p>TM-align: aliSize=141 (resi) RMSD=3.57 (Å)  a-----KFVIRPATAADCSDIRLTKELAK--YEYEE-QVILTEKDLLEDGfGHPFYHCLVAEVPKehwtpghSIVCFAMYFYTYDPwiGKLLYLEDFFVMSDYRDFIGSEILKNLSOVAM-RCRCSSMHFLVNEWEPISINFYKRRGASDLSSeeWRLFKidkevllkmate-----  -lpitlqrgALRLEPLVEADIPESVLAANREALQYMDGpTRPDWYRQSAEQ-R-EGRALPVAVRLGV-----QLVGTTRFAEFLPA--LPACEIGWTWLDQAQHSGLNRMKYLMLKHAfDNLmVRVQLSTASLRAQGAIDKLGAREGV---LRNHR-----rIaggrlddt</p> <p>-----  fvysidhewpqqkaaleasf</p> <p>SARST: aliSize=146 (resi) RMSD=11.17 (Å)  ak-----FVIRPATAADCSDIRLTKELAKYEMEEQVILTEKDLLEDGfGHPFYHCLVAEVPKehwtpghSIVCFAMYFYTYDPwiGKLLYLEDFFVMSDYRDFIGSEILKNLSOVAM-RCRCSSMHFLVNEWEPISINFYKRRGASDLSSeeWRLFKidkevllkmate-----  --lpitlqrgALRLEPLVEADIPESVLAANREALQYMDGpTRPDWYRQSAEQ-R-EGRALPVAVRLGV-----QLVGTTRFAEFLPA--LPACEIGWTWLDQAQHSGLNRMKYLMLKHAfDNLmVRVQLSTASLRAQGAIDKLGAREGV---LRNHR-----rIaggrlddt</p> <p>YLLKM-----ate  EWPOVkaaleasf---</p> <p>BLAST: aliSize=23 (resi) iden=8.28% (14/169) simi=13.61% (23/169)  akfvirpataadcsdi-----RiKEAKYEMEEQVILTEKDLLEDGfGHPFYHCLVAEVPKehwtpghSIVCFAMYFYTYDPwiGKLLYLEDFFVMSDYRDFIGSEILKNLSOVAM-RCRCSSMHFLVNEWEPISINFYKRRGASDLSSeeWRLFKidkevllkmate-----  -----lpitlqrgALRLEPLVEADIPESVLAANREALQYMDGpTRPDWYRQSAEQ-R-EGRALPVAVRLGV-----QLVGTTRFAEFLPA--LPACEIGWTWLDQAQHSGLNRMKYLMLKHAfDNLmVRVQLSTASLRAQGAIDKLGAREGV---LRNHR-----rIaggrlddt</p> <p>-----vpkehwtpeghsivgfamyfitydpwigkllyledffvmsdyrgfigseilknlsqvamrcrcssmhflvaewnepsinfykrrgasdlssseeWRLFKidkevllkmate  pqvkaaleasf-----</p> <p>Proposed: aliSize=151 (resi) RMSD=2.82 (Å)  ak-----FVIRPATAADCSDIRLTKELAKYEMEEQVILTEKDLLEDGfGHPFYHCLVAEVPKehwtpghSIVCFAMYFYTYDPwiGKLLYLEDFFVMSDYRDFIGSEILKNLSOVAM-RCRCSSMHFLVNEWEPISINFYKRRGASDLSSeeWRLFKidkevllkmate-----  --lpitlqrgALRLEPLVEADIPESVLAANREALQYMDGpTRPDWYRQSAEQ-R-EGRALPVAVRLGV-----QLVGTTRFAEFLPA--LPACEIGWTWLDQAQHSGLNRMKYLMLKHAfDNLmVRVQLSTASLRAQGAIDKLGAREGV---LRNHR-----rIaggrlddt</p> <p>LKIMATE-----  POVKAaleasfc</p>

162	1vguA (214)	M	14.49	<p><b>TM-align:</b> aliSize=198 (resi) RMSD=2.80 (Å)  LDVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDT-MKRAEpgknaia-----HTVD--R--NGLWHALTPOFFPRELHDC  SKAVIITaRygssrLgPPLDVGKPMIOVYERAVQAGAEVWVATD--DPVEVA-QAafGGKAITMTRNDHESGTRLRLEVMHKVE-ADIYINLQGDPMIRPRVETLQGMRRDpaLPVATLCHAI-SAAeaaEP-----stkvvvntrqdalysfRSPiPYPrnaekARYLKHVGIYAYRQV</p> <p>PRELHDCLTRALnEGA--T---ITDeASA-EYCFHPOLVGRADNIKTRPEDLALAEFYI--TR-  RQVYON-YSQL--PESmpEqaeSLE-QLRMNAGINIRTFVAATGPGDTEACEKVRALMaQE1</p> <p><b>SARST:</b> aliSize=203 (resi) RMSD=7.27 (Å)  1-DVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDGDERADSVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---GILA-PVR-----DTMKRAEPGKN--AIAHTVD-----RNGLWHALTPOFFPRELHDC  -sKAVIITaRygssrLgPPLDVGKPMIOVYERAVQAGAEVWVATD--DPVEVA-QAafGGKAITMTRNDHESGTRLRLEVMHKVE-ADIYINLQGDPMIRPRVETLQGMRRDpaLPVATLCHAI-SAAeaaEP-----stkvvvntRQDALyFSRSPiPYPrnaekARYLKHVGIYAYRQV</p> <p>L-----TRALN-GatitDASA-EYCFHPOLVGRADNIKTRPEDLALAEFYI-----ltr  SqlpesMPEQAIS-----LQLRMNAGINIRTFVAATGPGDTEACEKVRALMaqe1---</p> <p><b>BLAST:</b> aliSize=23 (resi) iden=7.94% (17/214) simi=10.75% (23/214)  ldvcavvpacpkqylsignqtilehsvhallahprvkr-----VVAISPGDSRFAQLpLANHPQITVVDGDERADSVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---GILA-PVR-----DTMKRAEPGKN--AIAHTVD-----RNGLWHALTPOFFPRELHDC  -----skavIITaRyPARY-SRRLPGKPLDVGKPMIOHVYERAVQAGAEVWVATD--DPVEVA-QAafGGKAITMTRNDHESGTRLRLEVMHKVE-ADIYINLQGDPMIRPRVETLQGMRRDpaLPVATLCHAI-SAAeaaEP-----stkvvvntRQDALyFSRSPiPYPrnaekARYLKHVGIYAYRQV</p> <p>-----aarpclhqddlarllalsetsrTGGIlaapV-RDTMKraepgknaiahtvdrnglwhaltppqffprellhdcltralnegatideasaleycgfh  -----rkdalyfsRSPiPYPrnaekARYLKHVGIYAYRQVldvqnsqqlpesmpEqaesleqlrlmnaginitrfevaatgpgvdtpaclekvralmaqe1-----  pqlvegradnikvtrpedlalaefyltr</p> <p><b>Proposed:</b> aliSize=201 (resi) RMSD=2.12 (Å)  LDVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDT-MKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  SKAVIITaRygssrLgPPLDVGKPMIOVYERAVQAGAEVWVATD--DPVEVA-QAafGG--KAIMTRNDHESGTRLRLEVMHKVE-ADIYINLQGDPMIRPRVETLQGMRRDpaLPVATLCHAI-SAAeaaEP-----stkvvvntRQDALyFSRSPiPYPrnaekARYLKHVGIYAYRQV</p> <p>PRELHDCLTRALnEGA--T---ITDeASA-EYCFHPOLVGRADNIKTRPEDLALAEFYI--TR-  QVYON-YSQL--PESmpEqaesLE-QLRMNAGINIRTFVAATGPGDTEACEKVRALMaQE1</p>
163	1vguA (214)	M	13.55	<p><b>TM-align:</b> aliSize=198 (resi) RMSD=3.12 (Å)  IDVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDT-MKRAEpgknaia-----HTVD--R--NGLWHALTPOFFPRELHDC  -VKTVVVAaLgGtrflpatktvPELPPVVDTPGTLIAAEAAELG-ATLALITAPNKAGVLAH-FERsselectlmergktdqveirraAdlIKAVPTQDKPLGLGHAAGLAESVLDdEDVAVMLPDDLVPPTGVMERMAQVRAEFGGSVLCAVEVSEADV-----Rygifieadtkd</p> <p>-----AHTVDRnGLWHALTPOFFPRELHDCLTRALnEGAT---ITDEASALEYC-G--FHPOLVEGRADNIKVTRPEDLALAEFYI--TR-----  sdvkkvkgmvekpAIEDAP-SRLAATGRYLLD-RKIFALRRIT---TPGaggeLQ-LTDAIDLLiDegHPVHI-THQGRHDLGNFGGYIP-CVDFglshpvygaqlkdaikqilaheea</p> <p><b>SARST:</b> aliSize=191 (resi) RMSD=9.64 (Å)  ldvcavvpac-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGD-----SRFAQLPLANHPQ-----ITVVDG--GDERADSVLAGLKAAGDQOWVLVHDAARPC-LHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  -----vktvvpaaagLgtrflpatktvPELPPVVDTPGTLIAAEAAELG-ATLALITAPNKAGVLAH-FERsselectlmergktdqveirraAdlIKAVPTQDKPLGLGHAAGLAESVLDdEDVAVMLPDDLVPPTGVMERMAQVRAEFGGSVLCAVEVSEADV-----Rygifieadtkd</p> <p>NIAHTVDRnGLWHALTPOFFPRELHDCLTRALnEGAT---ITDEASALEYC-G--FHPOLVEGRADNIKVTRPEDLALAEFYI--TR-----ltr  KDSVKKVkgmvekpAIEDAP-SRLAATGRYLLD-RKIFALRRIT---TPGaggeLQ-LTDAIDLLiDegHPVHI-THQGRHDLGNFGGYIP-CVDFglshpvygaqlkdaikqilaheea---</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=15.42% (33/214) simi=23.83% (51/214)  ldvcavvpacpkqylsignqtilehsvhallahprvkr-----VVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  -----vktvvpaaagLgtrflpatktvPELPPVVDTPGTLIAAEAAELG-ATLALITAPNKAGVLAH-FERsselectlmergktdqveirraAdlIKAVPTQDKPLGLGHAAGLAESVLDdEDVAVMLPDDLVPPTGVMERMAQVRAEFGGSVLCAVEVSEADV-----Rygifieadtkd</p> <p>-----tpqffprellhdcltralnegatideasaleycgfhpaqlve  -----gradnikvtrpedlalaefyltr</p> <p><b>Proposed:</b> aliSize=205 (resi) RMSD=2.29 (Å)  IDVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  -VKTVVVAaLgGtrflpatktvPELPPVVDTPGTLIAAEAAELG-ATLALITAPNKAGVLAH-FERsselectlmergktdqveirraAdlIKAVPTQDKPLGLGHAAGLAESVLDdEDVAVMLPDDLVPPTGVMERMAQVRAEFGGSVLCAVEVSEADV-----Rygifieadtkd</p> <p>TVDRNGLWHALTPOFFPRELHDCLTRALnEGAT---ITDEASALEYC-G--FHPOLVEGRADNIKVTRPEDLALAEFYI--TR-----ltr  MVEKPAIEDAP-SRLAATGRYLLD-RKIFALRRIT---TPGaggeLQ-LTDAIDLLiDegHPVHI-THQGRHDLGNFGGYIP-CVDFglshpvygaqlkdaikqilaheea---</p>
164	1vguA (214)	M	19.16	<p><b>TM-align:</b> aliSize=199 (resi) RMSD=3.45 (Å)  LDVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgknaia-----HTVD--R--NGLWHALTPOFFPRELHDC  MKTYALMaGgRgerlwpIsredrpPPLFEGKTLLEATLERLAPLVPPEKTLAVRRDQEAAR-P-YA-DG-RLLLEpLGRdtAGAVLLVAEIkEGERLVLPA-DH-YVgdeeaYREALATMLAAEegFVVALGLRPTRPET-----eygyirlgprgawyrgegfvekPSYAEALEYIR</p> <p>NGLWHALTPOFFPRELHDCLTRALnEGAT---ITDEASALEYC-G--FHPOLVEGRADNIKVTRPEDLALAEFYI--TR-----  KGYVWNGGVFAAPATMAELFRHPSHhealerllagasleevyaglpkISIDYGMKAER-VRVLRFPWDDGNWRALERV-ES---qdphenvlgegrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrvvkrlea</p> <p><b>SARST:</b> aliSize=185 (resi) RMSD=9.24 (Å)  ldvcavvpacpkqyls-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDGDERADSVLAGLKAAGDQOWVLVHDAARPC-LHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  -----mktyalvmaggrgerlwpIsredrpPPLFEGKTLLEATLERLAPLVPPEKTLAVRRDQEAAR-P-YA-DG-RLLLEpLGRdtAGAVLLVAEIkEGERLVLPA-DH-YVgdeeaYREALATMLAAEegFVVALGLRPTRPET-----eygyirlgprgawyrgegfvekPSYAEALEYIR</p> <p>-----RNGLWHALTPOFFPRELHDCLTRALnEGAT---ITDEASALEYC-G--FHPOLVEGRADNIKVTRPEDLALAEFYI--TR-----  kpsyaaleYIRKGYVWNGGVFAAPATMAELFRHPSHhealerllagasleevyaglpkISIDYGMKAER-VRVLRFPWDDGNWRALERV-ES---qdphenvlgegrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrvvkrlea</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=16.36% (35/214) simi=29.91% (64/214)  ldvcavvpac-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDGDERADSVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  -----mktyalvmaggrgerlwpIsredrpPPLFEGKTLLEATLERLAPLVPPEKTLAVRRDQEAAR-P-YA-DG-RLLLEpLGRdtAGAVLLVAEIkEGERLVLPA-DH-YVgdeeaYREALATMLAAEegFVVALGLRPTRPET-----eygyirlgprgawyrgegfvekPSYAEALEYIR</p> <p>-----altqffprellhdcltralnegatideasaleycgfhpaqlvegradnikvtrpedlalaefyltr</p> <p><b>Proposed:</b> aliSize=197 (resi) RMSD=2.45 (Å)  LDVCAVVP-A-----C-NOY-SIGNOTILEHSVHALAHPRVKRVVVAISPGDSRFAQLpLANHPQITVVDG-GDE-R-ASVLAGLKAAGDQOWVLVHDAARPC-CLHODDLARLALSETSRG---RTGGI-AAPV-RDTMKRAEpgKNAIAHTVDRng-----LWHALTPOFFPRELHDC  MKTYALMaGgRgerlwpIsredrpPPLFEGKTLLEATLERLAPLVPPEKTLAVRRDQEAAR-P-YA-DG-RLLLEpLGRdtAGAVLLVAEIkEGERLVLPA-DH-YVgdeeaYREALATMLAAEegFVVALGLRPTRPET-----eygyirlgprgawyrgegfvekPSYAEALEYIR</p> <p>HALTPOFFPRELHDCLTRALnEGAT---ITDEASALEYC-G--FHPOLVEGRADNIKVTRPEDLALAEFYI--TR-----ltr  WNGGVFAAPATMAELFRHPSHhealerllagasleevyaglpkISIDYGMKAER-VRVLRFPWDDGNWRALERV-ES---qdphenvlgegrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrvvkrlea---</p>

165	<p><b>1vguA (214)</b></p> <p><b>1h5rA (290)</b></p>	M	<p>11.21</p> <p><b>TM-align: aliSize=194 (resi) RMSD=3.11 (Å)</b>  LDVCAVVP-A--C-----P-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGD-E-RADSVLAKKAAaDaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPVrdTMkraepknaiah-----TVDRnLWHAL  KMRKGIILaGsgTrlypvtmavSGLLPYDKPMIYYPLSTMLA-GIRDILISTQOTPRFQQLGDGSqwglnLQYKQVQSPdGLAQAFIIEEFITG-DDCALVLGDNIFYGHDLPKLMEAVNKESGATVFAHYVNDPE-----rygvvefdkngtaisleekpLEPKS--NYAVT</p> <p>TPOFPRELLHDCLTRAlnEGAT--ITDEASALEYcGFH-POLVEGR--ADNKVTRPEDlALAEFYLT-R-----  GLYFDN-DVQMAKNL--KPSArgELEITDINRIYEQGrLSVAMMGrYAWLDTGTHQSIEASNFIAIteerqglkvsceei af rkgfidveqvrklavpliknnygylykmtkd</p> <p><b>SARST: aliSize=188 (resi) RMSD=7.27 (Å)</b>  ldvcavvpac-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlPLANH---POITV-----VDGDERADSVLAGLKaadaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPV-----RDTMKRA----EPGKNAIAHTVDRNGLW  -----kmrkgiilagsgstrlypvtmavSGLLPYDKPMIYYPLSTML-AGIRDILISTQOTPRF--QQLLGdgsQWGLNlqykvqspDLAQAFIIEEFITG--GD-DCALVLGDNIFYGHDLPKLMEAVNKESGATVFAHYVNDPE-----KESGATVFAHYVNDPEYGVVEFDkngTAISLEEKPLEPKSNYA</p> <p>HALTpQFPREllhdCLTRAL-----NEATITDEASALEYcGFHPOLVEGRADNIKV--TRPEDlALAEFY-----l tr  VTGL-YFDND--VVQMAKNlKpsARGELEITDINRIYEQGrLSVAMMGrYAWLdtGTHQSIEASNFIAIteerqglkvsceei af rkgfidveqvrklavpliknnygylykmtkd---</p> <p><b>BLAST: aliSize=99 (resi) iden=25.70% (55/214) simi=46.26% (99/214)</b>  ldvca-----VVPCKPKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGDERADSVLAKKAAaDaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPVrdTMKRA--EPGKNAIAHTVDRNGLW----HALTP-QFPRE  -----kmrkgiilagsgstrlypVTMVSGLLPYDKPMIYYPLSTML-AGIRDILISTQOTPRFQQLGDGSqwglnLYKQVQSPGLAQAFIIEEFITGDDCALV--LGDNIIFYGHDLPKLMEAVNKESGATVFAHYVNDPEYGVVFDKNGTISLEEKPLEPKSnyAVIGLYFDND</p> <p>LLHdcLTRAlnEGAT--ITD-----ASALE-----Yc-----EFPOLVEG-----RADNKVTRPEDlALAEFYLT-----tr  VVQ--MAKNKPSArgELEITDINRIYEQGrLSVAMMGrYAWLdtGTHQSIEASNFIAIteerqglkvsceei af rkgfidveqvrklavpliknnygylykmtkd---</p> <p><b>Proposed: aliSize=201 (resi) RMSD=2.37 (Å)</b>  1-DVCAVVP-A-CP-----KOYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGD-E-RADSVLAKKAAaDaQWVLVHDAARPClH-qDLARLLALSETsRTGGILAAPV-----RDTMKRAEpGKNAIAHTVDRNG-----LWHALTPQFPRELLH  -kMRKGIILaGsgTrlypvtmavSGLLPYDKPMIYYPLSTMLA-GIRDILISTQOTPRFQQLGDGSqwglnLQYKQVQSPdGLAQAFIIEEFITG-DDCALVLGDNIFYGH-DLPKLMEAVNKESGATVFAHYVNDPEYGVVEFDKNGTATISLEEKPLEPKSnyAVTGLYFDN-DV</p> <p>DCLTRAlnEGAT--TITdEASALEYcGFH---POLVEG---RaDNKvTRPEDlALAEFYLT-R-----  QMAKNL--KPSArgELE-ITDINR--IYLeqgrLSVAMMGrY-AWLDtGTHQSIEASNFIAIteerqglkvsceei af rkgfidveqvrklavpliknnygylykmtkd</p>
166	<p><b>1vguA (214)</b></p> <p><b>liimA (289)</b></p>	M	<p>11.21</p> <p><b>TM-align: aliSize=194 (resi) RMSD=3.05 (Å)</b>  -LDVCAVVP-A--C-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGD-E-RADSVLAKKAAaDaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPVrdTMkraepknaiah-----HTVDRnLWHAL  mKTRKGIILaGsgTrlypvtmavSGLLPYDKPMIYYPLSTMLAG-IRDILISTQOTPRFQQLGDGSqwglnLQYKQVQSPdGLAQAFIIEEFITG-DDCALVLGDNIFYGHDLPKLMEAVNKESGATVFAHYVNDPE-----rygvvefdkgtavseleekpLQPKS--NYAVT</p> <p>TPOFPRELLHDCLTRAlnEGAT--TITdEASALEYcGFH-POLVEGRA--DNKvTRPEDlALAEFYLT-R-----  GLYFD-NSVVEMAKNL--KPSArgELE-ITDINRIYmeQGrLSVAMMGrYAWLDTGTHQSIEASNFIAIteerqglkvsceei af rknfinaqqvielagplskndygylykmtkd</p> <p><b>SARST: aliSize=164 (resi) RMSD=16.48 (Å)</b>  ldvcavvpac-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlPLANHPQ---ITVVDGG---DERADSVLAKKAAaDaQWVLVHDAARPClH-----ODDLARLLALSETsRTGGILAAPV-----RDTMKRAE-----PGKNAIAHT  -----mktkrgiilagsgstrlypvtmavSGLLPYDKPMIYYPLSTML-AGIRDILISTQOTPRF--QQLLGdgsQwglnLQYKQVQSPdGLAQAFIIEEFITGDDCALV--LGDNIIFYGHDLPKLMEAVNKESGATVFAHYVNDPE-----KESGATVFAHYVNDPEYGVVEFDkgtavseleekpLQPKS</p> <p>VDRNGLWHAL-----TPOFP-----RLLHDCLTRAlnEGATITDEASALEYcG-----fhpqlvegradnikvtrpedlalaefyltr  YAVIGLYFYDnsvveMAKNlKpsArgELEITDINRIYmeqgrLSVAMMGrYAWLdtGTHQSIEASNFIAIteerqglkvsceei af rknfinaqqvielagplskndygylykmtkd</p> <p><b>BLAST: aliSize=15 (resi) iden=3.27% (7/214) simi=7.01% (15/214)</b>  ldvcavvpacpkqylsignqtilehsvhallahprvkrvvaisspgrsfaqlplanhpqitvvdgderadsvlaglkaagdaqwlvhdaarpcqhddlarllalsetsrtggilaapvrdtmkraepknaiahvdrnglwhaltppqffprellhdcltralnecatideasaleycgfhppql-  -----m</p> <p>ktkrgiilagsgstrlypvtmavsqllpiydkpmiyyplstmlagirdiliiispqdtprfqqlgdgsqwglnlqykvqspdglaqafiiieefighddcalvlgdnifyghdlpklmeavnkessgatvfaHYVNDPEYGVVEFDkgtavseleekpLQPKSnyavtglyfydsvveMAKNlK</p> <p>-----VGRADNKVTRPEDlALAEFYLT-----tr  psargeleitdinriymeqrslsvammgrYAWLdtGTHQSIEASNFIAIteerqglkvsceei af rknfinaqqvielagplskndygylykmtkd---</p> <p><b>Proposed: aliSize=202 (resi) RMSD=2.40 (Å)</b>  -LDVCAVVP-A--C-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGD-E-RADSVLAKKAAaDaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPV-----RDTMKRAEpGKNAIAHTVDRNG-----LWHALTPQFPRELLH  mKTRKGIILaGsgTrlypvtmavSGLLPYDKPMIYYPLSTMLAG-IRDILISTQOTPRFQQLGDGSqwglnLQYKQVQSPdGLAQAFIIEEFITG-DDCALVLGDNIFYGHDLPKLMEAVNKESGATVFAHYVNDPEYGVVEFDKNGTAVSLEEKPLQPKSnyAVTGLYFD-NSV</p> <p>DCLTRAlnEGAT--TITdEASALEYcGFH---POLVEG---RaDNKvTRPEDlALAEFYLT-R-----  EMAKNL--KPSArgELE-ITDINR--IYMeqgrLSVAMMGrY-AWLDtGTHQSIEASNFIAIteerqglkvsceei af rknfinaqqvielagplskndygylykmtkd</p>
167	<p><b>1vguA (214)</b></p> <p><b>llvwA (295)</b></p>	M	<p>14.49</p> <p><b>TM-align: aliSize=197 (resi) RMSD=2.99 (Å)</b>  -LDVCAVVP-A--C-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGD-E-RADSVLAKKAAaDaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPVrdTMkraepknaiah-----TVDRNGLWHALTP  gAHMKGIILaGsgstrlypiTravSGLLPYDKPMIYYPLSTMLA-GIRDILISTQOTPRFQQLGDGSqfgvRFSYRQVEePRgIDAFIVKDFIGD-SKVALVLGDNVfyghrFSEIRRAASLEDGAVIFGYVrdPRP-----rgvvefdsegrvisieekPSRPSKNYVVPGL</p> <p>QFPRELLHDCLTRAlnEGAT--ITDEASALEYcGFH-POLVEGR--ADNKVTRPEDlALAEFYLT-R-----  YFDN-OVVEIAR--I--PSDRgeLEITSVNIEYIRMGkLRVELMGrMAWLDtGTHGILESSFIetiqrqgyfiacleeiayngwitredvlemaeklektdygylykmtkdlaegnfhg</p> <p><b>SARST: aliSize=176 (resi) RMSD=10.15 (Å)</b>  1----DVCAVVPACPKOYL-----SIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlPLANHPqitvvdgderADSVLAGLKAADAO-----WVLVHD-----ARPClHODDL-----ARLLALSETsRTGGILAAPV-----RDTMKRA----EPGKNAI  -gahmKGIILAGSGSTRlypiTravskqllpiydkpmiyyplstml-AGIRDILISTQOTPRF-----PRDLPLYRDLGSGqfgvRFSYRqveeprgIDAFIVKDFIGDskvalvlgdnvfyghrfSEIRRAASLEDGAVIFGYVrdPRP-----KESGATVFAHYVNDPEYGVVEFDsegrVISIEE</p> <p>AHTVDRNGLWHALTPQFPRELLHDCltralnEGATIT-----EASALEYcGFHPOLVEGRAD-NIKVTRPEDlALAEFY-----l tr  KPSRPSKNYVVPGL-YFDNQVVEIAR-----RRIEPSrgelitsvneeYLRMKLRVELMGrMAWLDtGTHGILESSFIetiqrqgyfiacleeiayngwitredvlemaeklektdygylykmtkdlaegnfhg---</p> <p><b>BLAST: aliSize=40 (resi) iden=9.35% (20/214) simi=18.69% (40/214)</b>  ldvca-----gahmKGIILAGSGSTRlypiTravSGLLPYDKPMIYYPLSTML-AGIRDILISTQOTPRFQQLGDGSqfgvRFSYRqveeprgIDAFIVKDFIGDskvalvlgdnvfyghrfseilraasledgavifgyvrdprpfgvvefdsegrvisieekpsrpsknnyvvpglyfydnqvv  -----gahmKGIILAGSGSTRlypiTravSGLLPYDKPMIYYPLSTML-AGIRDILISTQOTPRFQQLGDGSqfgvRFSYRqveeprgIDAFIVKDFIGDskvalvlgdnvfyghrfseilraasledgavifgyvrdprpfgvvefdsegrvisieekpsrpsknnyvvpglyfydnqvv</p> <p>eiarrpepsdrgeleitvneeYLRMKLRVELMGrMAWLDtGTHGILESSFIetiqrqgyfiacleeiayngwitredvlemaeklektdygylykmtkdlaegnfhg-----hdaarpcqhddlarllalsetsrtggilaapvrdtmkraepknaiahvdrnglwhaltppqffprellhdcltraln</p> <p>ecatideasaleycgfhppqlvegradnikvtrpedlalaefyltr</p> <p><b>Proposed: aliSize=201 (resi) RMSD=2.38 (Å)</b>  -LDVCAVVP-A--C-----PKYISIGNOTILEHSVHALAHPrVkrRVVAISFG-SRFAQlpANHP---OITVVDGGD-E-RADSVLAKKAAaDaQWVLVHDAARPClHODDLARLLALSETsRTGGILAAPV-----RDTMKRAEpGKNAIAHTVDRNG-----RNGLWHALTPQFPRELLH  gAHMKGIILaGsgstrlypiTravSGLLPYDKPMIYYPLSTMLAG-IRDILISTQOTPRFQQLGDGSqfgvRFSYRQVEePRgIDAFIVKDFIGD-SKVALVLGDNVfyghrFSEIRRAASLEDGAVIFGYVrdPRP-----SEGRVISIEEekpsrpsknnyvvpGLYFDN-Q</p> <p>LHDCLTRAlnEGAT--TITdEASALEYcGFH---POLVEGR--ADNKVTRPEDlALAEFYLT--TR  VVEIAR--I--PSDRgeLE-ITSVNIEYLRMGkLRVELMGrMAWLDtGTHGILESSFIetiqrqgyfiacleeiayngwitredvlemaeklektdygylykmtkdlaegnfhg</p>



168	<p>1vguA (214)</p> <p>1fxoA (292)</p>	M	11.21	<p><b>TM-align:</b> aliSize=194 (resi) RMSD=3.13 (Å)</p> <p>1DVCVVP-A--C-----PKQYISIGNOTILEHSHVLAHPRVVRVVAISFGI-SRFAQIPLANHP----OITVVDGGD-E-RADSVIADLKAADaOWVLVHDAARPCLDLRLALSETSRGTGILAPV---RDTMKRAEpknaia-----HTVDRnsLWHALT  - KRKGIILaGsgsGtrlhpatlAISKQLPVYDKPMIYYPLSTMLA-GIREILISTQIOTPRFQQL-LGDGSnwgldLQYAVQPSpDGLAQAFIIGESFIIN-DLSALVLDNLYYGHDFHELIGSASQRTGASVFIYHVLDPDPE-----ygvvfdqggkailsleekpLEPKS--NYAVTG</p> <p>POFPPELHCLTRAlnEGAT--ITDEASALEYC-GFH-POLVEGR--ADNIKVTRPEDLALAEFYLT-R-----  LYDYD-QQVVIARDL--KPSPrgeLEITDVRNRAYLERGQLSVEIMGRGYAWLDTGTHDSLLEAGQFIATLenrqglkvacpeeiayrqkwidaaqleklaaplakngygqylkrlltetvy</p> <p><b>SARST:</b> aliSize=165 (resi) RMSD=16.64 (Å)</p> <p>1dvcavvpac-----PKQYISIGNOTILEHSHVLAHPRVVRVVAISFGI-SRFAQIPLANHPQ-----ITVVD---GIDERADSVLAGLKaadaOWVLVHDAARPCLDLRLALsetSRGTGILAPV---RDTMKRAE-----PGKNAIAHTVDR  -----krkgiilagsgsGtrlhpatlAISKQLPVYDKPMIYYPLSTML-AGIREILISTQIOTPRFQQL-LGDGSnwgldLQYAVqpspDGLAQAFIIGESFI--NDLSA--VLGDNLYYGHDFHELIGSASQ---RQTGASVFIYHVLdPERYGVVVEFDqggkailsleEKPLEPKSNYAV</p> <p><b>BLAST:</b> aliSize=98 (resi) iden=26.64% (57/214) simi=45.79% (98/214)</p> <p>1dvcavv-----CPKQYISIGNOTILEHSHVLAHPRVVRVVAISFGISRFAQIPLANHP----OITVVDGGDERADSVIADLKAADaOWVLVhdaARPCLDLRLALSETSRGTGILAPV---RDTMKRAEpknaiahtVDRNGLW---HNLTPPFELI  -----krkgiilagsgsGtrlhpatlAISKQLPVYDKPMIYYPLSTML-AGIREILISTQIOTPRFQQL-LGDGSnwgldLYAVQPSpDGLAQAFIIGESFI--NDLSA--VLGDNLYYGHDFHELIGSASQRTGASVFIYHVLdPERYGVVVEFDQGGKAISS--LEEKPLEPKSNYAVTGLY</p> <p><b>Proposed:</b> aliSize=200 (resi) RMSD=2.32 (Å)</p> <p>1DVCVVP-A--C-----PKQYISIGNOTILEHSHVLAHPRVVRVVAISFGI-SRFAQIPLANHP----OITVVDGGD-E-RADSVIADLKAADaOWVLVHDAARPCLDLRLALSETSRGTGILAPV---RDTMKRAEpknaiahtVDRNGLW---HNLTPPFELI  - KRKGIILaGsgsGtrlhpatlAISKQLPVYDKPMIYYPLSTMLAG-IREILISTQIOTPRFQQL-LGDGSnwgldLQYAVQPSpDGLAQAFIIGESFIIN-DLSALVLDNLYYghDFHELIGSASQRQ---TGASVFIYHVLdpeRYGVVVEFD-QGGKATISLEEKPLEPKSNYAVTGLYDY-QQV</p>
169	<p>2c49A (299)</p> <p>1bx4A (342)</p>	M	20.07	<p><b>TM-align:</b> aliSize=287 (resi) RMSD=2.82 (Å)</p> <p>g-KMEKTCVCHTAQYIFNVEK-PEPNT-----SIOIP-SARKYYGAAAVAVGKIKLGV---NSELLSVGYFKNSGYEYLKNDINISKLISEE-PAKAWIFTDKNNOITFFLWGAAKHKEKEL--NP---PN-F-NTEIVHIA-TGDP--E-FNCKKKYK-  -vRENILFGMNPLDISAVVdkdfldkYSkpnqdilaedkheifdelvkkfkVEYHAGSTONSIKVAQWMIQqphkAATFFGIGIKFGEILKKAABAHVDAH-YEQNEQPGTCAACITG-DNRSLIANLAAANCKKekhlDlEknWmIveKARVCYIagFFLTvsPeSVLKVHSEN</p> <p><b>SARST:</b> aliSize=263 (resi) RMSD=5.12 (Å)</p> <p>gkmeKTCVCHTAQYIFNVEK-PEPNT-----SARKYYGAAAVAVGKIKLGV---SELLSVGY---YDFknsGYEYLKNDINISKLISEE-PAKAWIFTDKNNOITFFLWGAAKHykelnppNF-----NTEIVHIA-TGD-----  -----vrenilfgmnpldisAVVdkdfldkYSkpnqdilaedkheifdelvkkfkVEYHAGSTONSIKVAQWMIQqphkAATFFGIGIKFGE---ILKKAABAHVDAH-YEQNEQPGTCAACITG-DNRSLIANLAAANCKKekhlDlEknWmIveKARVCYIagFFLTvsP</p> <p><b>BLAST:</b> aliSize=117 (resi) iden=22.74% (68/299) simi=39.13% (117/299)</p> <p>gkmeKTCVCHTAQYIFNVEK-PEPNT-----SARKYYGAAAVAVGKIKLGV---SELLSVGYFKNSGYEYLKNDINISKLISEE-PAKAWIFTDKNNOITFFLWGAAKHKEKEL--NP---PN-F-NTEIVHIA-TGDP--E-FNCKKKYK-  -----vrenilfgmnpldisAVVdkdfldkYSkpnqdilaedkheifdelvkkfkVEYHAGSTONSIKVAQWMIQqphkAATFFGIGIKFGEILKKAABAHVDAH-YEQNEQPGTCAACITG-DNRSLIANLAAANCKKekhlDlEknWmIveKARVCYIagFFLTvsPeSVLKVHSEN</p> <p><b>Proposed:</b> aliSize=278 (resi) RMSD=2.11 (Å)</p> <p>gkmeKTCVCHTAQYIFNVEK-PEPNT-----SARKYYGAAAVAVGKIKLGV---NSELLSVGYFKNSGYEYLKNDINISKLISEE-PAKAWIFTDKNNOITFFLWGAAKHKEKEL--P-----P-NFNTTEIVHIA-TGDP--E-FNCKKKYK-  -----vrenilfgmnpldisAVVdkdfldkYSkpnqdilaedkheifdelvkkfkVEYHAGSTONSIKVAQWMIQqphkAATFFGIGIKFGE--EILKKAABAHVDAH-YEQNEQPGTCAACITG-DNRSLIANLAAANCKKekhlDlEknWmIveKARVCYIagFFLTvsPeSVLKVHSEN</p>
170	<p>1h1cA (329)</p> <p>2qlrA (425)</p>	N	12.16	<p><b>TM-align:</b> aliSize=288 (resi) RMSD=3.23 (Å)</p> <p>1iakraypyetekrdktylalnennpfpf-----mnyarfitaasaarnspirtmtdiLsrpgksmslaggerlppnmfpfktAVITVENGKIQFGEEEMKRALQYSPAGIFELSWLKLQIKLHNPpIhyppsgqgMDLQTSQQGLCKVfEmIInpgDnVLDLDEAASGTLQSLH--PLGNTINVA  K-LR-PE-VN-V--G-----EGDVVFINP-SPHVF--FRFERILK-TGAVALFAEFH---GESY-VDFLKKYENAVIRITKAFSLAAGVYVVASPKFDAYNRVRLP--FNVYVSLFAKVA--D--HR-EIFFRTKIVFRFRKSLR--G--YRIT  SesGIVpdSLrdLsRwKpedaknpqkTPKFLYTPNgSPHNSLTSerKKEIYELARKYDFLIEDEPFLQfnkrFVPTfLSD-VDRVTRADS--I--SSGLIFELTGPKPLERVILHIOVstLHFIFNIMISQLheWgeegfmAHVDRVIDYSNOKDAILAAdkwtIglAEWH</p> <p><b>SARST:</b> aliSize=269 (resi) RMSD=8.87 (Å)</p> <p>1iakraypyetekrdktylalnennpfpf-----mnyarfitaasaarnspirtmtdiLsrpgksmslaggerlppnmfpfktAVITVENGKIQFGEEEMKRALQYSPAGIFELSWLKLQIKLHNPpIhyppsgqgMDLQTSQQGLCKVfEmIInpgDnVLDLDEAASGTLQSLH--PLGNTINVA  -----KDLRIPEVNVG-----EGDVVFINP-SPHVF--FRFERILK-TGAVALFAEFH---GESY-VDFLKKYENAVIRITKAFSLAAGVYVVASPKFDAYNRVRLP--FNVYVSLFAKVA--D--HR-EIFFRTKIVFRFRKSLR--G--YRIT  sIhPLGcNIINVASdesgivpdsIrdiLsRwKpedaknpqkTPKFLYTPNgSPHNSLTSerKKEIYELARKYDFLIEDEPFLQfnkrFVPTfLSD-VDRVTRADS--I--SSGLIFELTGPKPLERVILHIOVstLHFIFNIMISQLheWgeegfmAHVDRVIDYSNOKDAILAAdkwtIglAEWH</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=10.59% (34/329) simi=18.69% (60/329)</p> <p>1iakraypyetekrdktylalnennpfpf-----mnyarfitaasaarnspirtmtdiLsrpgksmslaggerlppnmfpfktAVITVENGKIQFGEEEMKRALQYSPAGIFELSWLKLQIKLHNPpIhyppsgqgMDLQTSQQGLCKVfEmIInpgDnVLDLDEAASGTLQSLH--PLGNTINVA  -----KDLRIPEVNVG-----EGDVVFINP-SPHVF--FRFERILK-TGAVALFAEFH---GESY-VDFLKKYENAVIRITKAFSLAAGVYVVASPKFDAYNRVRLP--FNVYVSLFAKVA--D--HR-EIFFRTKIVFRFRKSLR--G--YRIT  sIhPLGcNIINVASdesgivpdsIrdiLsRwKpedaknpqkTPKFLYTPNgSPHNSLTSerKKEIYELARKYDFLIEDEPFLQfnkrFVPTfLSD-VDRVTRADS--I--SSGLIFELTGPKPLERVILHIOVstLHFIFNIMISQLheWgeegfmAHVDRVIDYSNOKDAILAAdkwtIglAEWH</p> <p><b>Proposed:</b> aliSize=306 (resi) RMSD=2.67 (Å)</p> <p>1IA-KRIVYPE-TRKR--D-----KTYLALNENPP-----edVDEVFIFNSD-----alRIYVDS-PDEIFKTLISYL-DT-DF-LS-----skNNVSGNADHIIYVMIID--R-SVFPPTI-CYRIFAKAVGAKFVPLTK--LRI--PE-VN---  mnyarfiitaasaarnspirtmtdiLsrpgksmslaggerlppnmfpfktAVITVENGKIQFGEEEMKRALQYSPAGIFELSWLKLQIKLHNPpIhyppsgqgMDLQTSQQGLCKVfEmIInpgDnVLDLDEAASGTLQSLH--PLGNTINVASdesgivpdsIrdiLsRwKpedaknpqkTPKFLYTPNgSPHNSLTSerKKEIYELARKYDFLIEDEPFLQfnkrFVPTfLSD-VDRVTRADS--I--SSGLIFELTGPKPLERVILHIOVstLHFIFNIMISQLheWgeegfmAHVDRVIDYSNOKDAILAAdkwtIglAEWHVPAaLWIKVkgT</p>

171	<p>1a5pA (124)</p> <hr/> <p>1a2wA (124)</p>	N	98.39	<p>TM-align: aliSize=105 (resi) RMSD=0.95 (Å)  ketaaakferqhmdsstsa-----ASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAKYTTQANKHIIVACEGNPYVPVHFDASV  -----ketaaakferqhmdsstsaASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKYTTQANKHIIVACEGNPYVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=14.30 (Å)  k-ETAAAKFERQHMDSSSTSAASS-SNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAKYTTQANKHIIVACEGNPYVPVHFDAS-v-  -kETAAAKFERQHMDSSST-SAASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKYTTQANKHIIVACEGNPYVPVHFDAS-v-</p> <p>BLAST: aliSize=122 (resi) iden=98.39% (122/124) simi=98.39% (122/124)  KETAAAKFERQHMDSSSTSAASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAKYTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTSAASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKYTTQANKHIIVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.68 (Å)  KETAAAKFERQHMDSSSTSAASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAKYTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTSAASSSNYCNQMMKSRNLTKDRKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKYTTQANKHIIVACEGNPYVPVHFDASV</p>
172	<p>InloC (56)</p> <hr/> <p>laojA (60)</p>	C	25.00	<p>TM-align: aliSize=34 (resi) RMSD=2.23 (Å)  --TFVALYDYESRTEIDLSPFKGERIQIVN--NTEGDwwlahslttgqtg-----Yipsnyvaps-----  kkYAKSKYDFVARNSSSELSVMDDVLELDDR--RQWVKVRN-ASGDSGFVFNILDIMrtp</p> <p>SARST: aliSize=52 (resi) RMSD=11.63 (Å)  t---FVALYDYESRTEIDLSPFKGERIQIVNnteGDWLAHSLTTGQTGYIYPSNYVAP-----s  -kkyAKSKYDFVARNSSSELSVMDDVLELDDR--RQWVKVRN-ASGDSGFVFNILDIMrtp-</p> <p>BLAST: aliSize=29 (resi) iden=25.00% (14/56) simi=51.79% (29/56)  t fval-----YDYESRTEIDLSPFKGERIQIVNTEGDWLAHSLTTGQTGYIYPSNYVAP-----yvaps  -----kkyakskYDFVARNSSSELSVMDDVLELDDR--RQWVKVRN-ASGDSGFVFNILDIMrtp-----</p> <p>Proposed: aliSize=52 (resi) RMSD=1.23 (Å)  --TFVALYDYESRTEIDLSPFKGERIQIVN--nteGDWLAHSLTTGQTGYIYPSNYVAPs----  kkYAKSKYDFVARNSSSELSVMDDVLELDDR--RQWVKVRN-ASGDSGFVFNILDIMrtp</p>
173	<p>leydA (136)</p> <hr/> <p>lsndA (129)</p>	C	100.00	<p>TM-align: aliSize=111 (resi) RMSD=1.36 (Å)  kLHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVykpnntHEQHLRKSEAQAKKEKLN IWS-----  -LHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYTH-----EQ-----HLRKSEAQAKKEKLN IWS-</p> <p>SARST: aliSize=127 (resi) RMSD=9.61 (Å)  k1-LHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVykpnntHEQHLRKSEAQAKKEKLN IWS-s  --LHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYT-----HEQHLRKSEAQAKKEKLN IWS-</p> <p>BLAST: aliSize=129 (resi) iden=100.00% (129/129) simi=100.00% (129/129)  kLHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVykpnntHEQHLRKSEAQAKKEKLN IWS  -LHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAY-----THEQHLRKSEAQAKKEKLN IWS</p> <p>Proposed: aliSize=129 (resi) RMSD=0.51 (Å)  kLHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAYVykpnntHEQHLRKSEAQAKKEKLN IWS  -LHKEPATL IKAIDGDTVKLMYKGQPMFRLLLVDTPETKHPKKGVEKYGPEASAFTRKMVENAKKIEVEFDKGORTDKYGRGLAYIYADGKMVNEALVROGLAKVAY-----THEQHLRKSEAQAKKEKLN IWS</p>

174	<p><b>1qd0A</b> (128)</p> <hr/> <p><b>1sjvA</b> (102)</p>	C	70.59	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.65 (Å)  qvqlqeSgGGLVQAGGSLRLSCAASgraasghGHYGMGWFROVPGKEREFVAAIRWSKkETWVKDSVKGRFTISRDNAKITVYLQMNLSKGEDTAVYYCAARPVRvadislpvgfdywgqgtqvtvss-----  -----G-GGLVQAGESLKLSCAA-----SGGFMGWYRQAPGKQRELVAIINSR-IINVAIDFVKGRFTISRDNAKITVYLEMNSLEPEDTAVYYCYTHYFR-----sywgqgtqvtvss</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=14.81 (Å)  qvqlqesgg--GLVQAGGSLRLSCAASGRAasghghyMGWFROVPGKEREFVAAIRWSKkETWVKDSVKGRFTISRDNAKITVYLQMNLSKGEDTAVYYCAARPVRvadislpvgfdyWGQGTQVTV--ss  -----ggGLVQAGESLKLSCAASGFGF-----MGWYRQAPGKQRELVAIINSR-IINVAIDFVKGRFTISRDNAKITVYLEMNSLEPEDTAVYYCYTHYFR-----YWGQGTQVTVss--</p> <p><b>BLAST:</b> aliSize=82 (resi) iden=75.49% (77/102) simi=80.39% (82/102)  qvqlqesGGGLVQAGGSLRLSCAASgraasghGHygMGWFROVPGKEREFVAAIRWSKkETWVKDSVKGRFTISRDNAKITVYLQMNLSKGEDTAVYYCAARPVRvadislpvgfdyWGQGTQVTVSS  -----GGGLVQAGESLKLSCAASGFGF-----MGWYRQAPGKQRELVAIINSR-IINVAIDFVKGRFTISRDNAKITVYLEMNSLEPEDTAVYYCYTHYFR-----SYWGQGTQVTVSS</p> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=1.49 (Å)  qvqlqeSgGGLVQAGGSLRLSCAASgraasghGHYGMGWFROVPGKEREFVAAIRWSKkETWVKDSVKGRFTISRDNAKITVYLQMNLSKGEDTAVYYCAARPVRvadislpvgfdyWGQGTQVTVSS  -----G-GGLVQAGESLKLSCAA-----SGGFMGWYRQAPGKQRELVAIINSR-IINVAIDFVKGRFTISRDNAKITVYLEMNSLEPEDTAVYYCYTHYF-----RS-YWGQGTQVTVSS</p>
175	<p><b>1pv3A</b> (146)</p> <hr/> <p><b>1k04A</b> (142)</p>	N	83.80	<p><b>TM-align:</b> aliSize=109 (resi) RMSD=2.62 (Å)  gspgisgggggirsndkvyenvtglvkaviem-----SSKIQPAPP EYVPMVKEVGLALRLLATVDES L PVL PASTHREIEMAQKLLNSDLAEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMISs rph-  -----eispptanldrndkvyenvtglvkaviemssKIQP-APP EYVPMVKEVGLALRLLATVDETIPLLPASTHREIEMAQKLLNSDLGEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMIGQ-----t</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=8.28 (Å)  gspgisgggggirsndkv-----YENVTLGVKAVIEMSSKIQPAPP-- EYVPMVKEVGLALRLLATVDES L PVL PASTHREIEMAQKLLNSDLAEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMIS--qs rp  -----eispptanldrndkVYENVTLGVKAVIEMSSKIQPAPP EYVPMVKEVGLALRLLATVDETIPLLPASTHREIEMAQKLLNSDLGEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMIGqt----</p> <p><b>BLAST:</b> aliSize=129 (resi) iden=87.32% (124/142) simi=90.85% (129/142)  gspgisgggggi-----RSNDKVENVTGLVKAVIEMSSKIQPAPP EYVPMVKEVGLALRLLATVDES L PVL PASTHREIEMAQKLLNSDLAEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMISsrp  -----eispptanldrndkVYENVTLGVKAVIEMSSKIQPAPP EYVPMVKEVGLALRLLATVDETIPLLPASTHREIEMAQKLLNSDLGEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMIGQT--</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.02 (Å)  gspgis-----GggggIRSN--DKVYENVTLGVKAVIEMSSKIQP-aPPEYVPMVKEVGLALRLLATVDES L PVL PASTHREIEMAQKLLNSDLAEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMIS--qs rph  -----eispptA---NLDrsnDKVYENVTLGVKAVIEMSSKIQP-a-PP EYVPMVKEVGLALRLLATVDETIPLLPASTHREIEMAQKLLNSDLGEL INKMKLAQQYVMTSLQOEYKQMLTAAHALAVDAKLLDVIDQARLKMIGqt-----</p>
176	<p><b>1b6bA</b> (168)</p> <hr/> <p><b>1y9wA</b> (140)</p>	N	15.71	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=2.62 (Å)  anefrcItpedaagvfieieafisvsgncplnldvqhfltl-----LCPeLSLWGFVGR-LVAFIIGSLwdeerltqesalhrPrGSAHLHAIAHRSFRQOKESVLRWRYLHHVGAQPAVRRAVMCEDA-LVPFYORFFHPAPCAIVVGS  -----mymkhiengtriegeyiknkvinymsiltdevkqpMEE-VSLVVKNEGKIFGGVTGTM-----Y-FYHLIDFWDESVRHDCYGSQLEHEIEGIAKEKG-CRLLILDSFSFQAPEFYKHKYREYV-VEDHPK</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=5.57 (Å)  anefrcItpedaagvfieieafisvsgncplnldvqhfltlc-----PELS-----LWGFVGR-LVAFIIGSLWdeerltqesalhrprgHSAHLHAIAHRSFRQOKESVLRWRYLHHVGAQPAVRRAVMCEDA-LVPFYORFFHPAPCAIVVGS  -----mymkhiengtriegeyiknkvinyMSILtdevkqpmeVSLVVKNEGKIFGGVTGTM-----YHLIDFWDESVRHDCYGSQLEHEIEGIAKE-KGCRLLILDSFSFQAPEFYKHKYREYVVEDHPK</p> <p><b>BLAST:</b> aliSize=45 (resi) iden=19.29% (27/140) simi=32.14% (45/140)  anefrcItpedaagvfieieafisvsgncplnldvqhfltlcpeLSLWGFVGR-LVAFIIGSLwdeerltqesalhrprgHSAHLHAIAHRSFRQOKESVLRWRYLHHVGAQPAVRRAVMCEDA-LVPFYORFFHPAPCAIVVGS  -----mymkhiengtriegeyiknkvinyMSILtdevkqpmeVSLVVKNEGKIFGGVTGTM-----YFYHLIDFWDESVRHDCYGSQLEHEIEGIAKEKG-CRLLILDSFSFQAPEFYKHKYREYVvedhpkghsqhffekrl</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=2.03 (Å)  --ANEFRCL---T-PEDAAGFEIE-----ieafisvsgncplnldvqhfltlcpeLSLWGFVGR-LVAFIIGSLwdeerltqesalhrprgHSAHLHAIAH-rSFRQOKESVLRWRYLHHVGAQPAVRRAVMCEDA-LVPFYORFFHPAPCA--iVvGS-LTFTEMHCSlrg  myMKHIEngtriEgEYIKNKVIQYNmsiltdevkqpme-----VSLVVKNEGKIFGGVTGTM-----YFYHLIDFWDe-SVRHDCYGSQLEHEIEGIAKEKG-CRLLILDSFSFQAPEFYKHKYREYV-Ved-H-PKghSQHFfEKRL--  haal  -----</p>

177	<p><b>lbrsA</b> (124)</p> <hr/> <p><b>lawzA</b> (123)</p>	N	31.71	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.01 (Å) kesaaakferqhmdsgnsp-----SSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVAVCS---QKKVTckngqTNCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV--- -----qdnsrythfl tqhydakpqrDRYCESIMRRGLTIS-PCNDINTFIHGNKRSIKAIcEnknGNPHR-----ENLRI SKSSFOVITIKLHCGSPWPQYRAIAGFRNVVACEN--GLPVHLDQsIFrRp</p> <p><b>SARST:</b> aliSize=88 (resi) RMSD=5.96 (Å) kes-----AAAKFERQHmdsgnspsssnycnlmccckmtqgkckpvntfvhesladvkavc---SQKkvtckngqTNCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACGGkpSVPVHF-----dasv ---qdnsrythfl tqhydakpqrdrYCESIMRR-----GLTIS-PCNDINTFIHGNKRSIKAIcEnknGNPH-----RENLRI SKSSFOVITIKLHCGSPWPQYRAIAGFRNVVACEN--GLPVHLDQsifrrp----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=34.15% (42/123) simi=52.85% (65/123) kesaaak-----FERQHMDsgnSPSSSN-YCNLMCCCKMTQgKCKPVNTFVHESLADVAVCSQKKvtckng---QTCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACggKPSVPVHFDA-SV---- -----qdnsrythflTQHYDA--KPOGRDRYCESIMRRGLTIS-PCNDINTFIHGNKRSIKAIcEN-----KknphRENLRI SKSSFOVITIKLHCGSPWPQYRAIAGFRNVVAC--ENGLPVHLDQsIFrRp</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.55 (Å) kE--SAAAKFERQHMDsgnSPSSSN-YCNLMCCCKMTQgKCKPVNTFVHESLADVAVCS---QKKVTckngqTNCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-S----v -QdnSRyTHflTQHYDAK--KPOGRDRYCESIMRRGLTIS-PCNDINTFIHGNKRSIKAIcENknGNPHR-----ENLRI SKSSFOVITIKLHCGSPWPQYRAIAGFRNVVACEN--GLPVHLDQsIFrRp-</p>
178	<p><b>lbrsA</b> (124)</p> <hr/> <p><b>le21A</b> (119)</p>	N	71.43	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.33 (Å) kesaaakferqhmdsgnsp-----SS--SNYCNLMCCCKMTQgKCKPVNTFVHESLADVAVCSQKKVTCKNGQTNCYQSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-SV- -----afqrqhmdsdsSPSSSTYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAVRTSPKERHIIVACEGSPYVPVHFDASe</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=5.16 (Å) kesaaakfer-----QHMDsgnspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVAVCSQKKVTCKNGQTNCYQSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-S--v -----afqrqhmdSDSSPS---SSSTYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAVRTSPKERHIIVACEGSPYVPVHFDASe-</p> <p><b>BLAST:</b> aliSize=96 (resi) iden=71.43% (85/119) simi=80.67% (96/119) kesaaak--FERQHMDsgnSPSSSN-YCNLMCCCKMTQgKCKPVNTFVHESLADVAVCSQKKVTCKNGQTNCYQSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-SV- -----afQRQHMDSDSSPSSTYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAVRTSPKERHIIVACEGSPYVPVHFDASe</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=1.35 (Å) kesaaakFERQHMDsgnSPSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVAVCSQKKVTCKNGQTNCYQSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-S- -----AFQRQHMDSDSSPSSTYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAVRTSPKERHIIVACEGSPYVPVHFDASe</p>
179	<p><b>lbrsA</b> (124)</p> <hr/> <p><b>lgioA</b> (125)</p>	N	33.06	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.93 (Å) kesaaakferqhmdsgnsp-----SSSS-NYCNLMCCCKMTQgKCKPVNTFVHESLADVAVCS---QKKVTckngqTNCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-S-V--- -----aqddyryihfl tqhydakpGRNdEYCFNMKNRRLTR-PCDRTNFIHGNKNDIKAIcEdrnGOPYR-----GDLRI SKSEFOITIKHKHGGSS-RPpCRGATEDSRVIVVGCEN--GLPVHFDsFiTprh</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=2.60 (Å) kesaaakferqhmdsgnspssss-----NYCNLMCCCKMTQ-GkcKPVNTFVHESLADVAVC---CSQKkvtckngqTNCYQSKSTMRIIDRETgSKYPNCA--KTTQVEKHIIVACGGKPSVP-----vhfdasv -----aqddyryihfl tqhydakpgrndEYCFNMKNRRLTRpC--CDRTNFIHGNKNDIKAIcedrnGOPYR-----GDLRI SKSEFOITIKHKH--GGSSRPpCRGATEDSRVIVVGCENGLPVHFDsfiTprh-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=34.68% (43/124) simi=49.19% (61/124) kesaaak-----FERQHMDsgnSPSSSN-YCNLMCCCKMTQgKCKPVNTFVHESLADVAVCSQKKVTCKNGQTNCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACggKPSVPVHFDA-S-----v -----aqddyryihflTQHYDA--KPKGRNdEYCFNMKNRRLTR-PCDRTNFIHGNKNDIKAIcedrnGOPYRGDLRI--SKSEFOITIKHKHGGSSRPpCRGATEDSRVIVVGCEN--ENGLPVHFDsfiTprh-</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.89 (Å) k--SAAAKFERQHMDsgnSPSS---sNYCNLMCCCKMTQgKCKPVNTFVHESLADVAVCS---QKKVTckngqTNCYQSKSTMRIIDRETSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-S-V--- -aqdYRYIHflTQHYDAK--PKGRNdEYCFNMKNRRLTR-PCDRTNFIHGNKNDIKAIcEdrnGOPYR-----GDLRI SKSEFOITIKHKHGGSSRPpCRGATEDSRVIVVGCEN--GLPVHFDsFiTprh</p>

180	<p><b>1bsrA</b> (124)</p> <hr/> <p><b>1kvzA</b> (107)</p>	N	24.30	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=2.69 (Å)  kesaaakferqhmdsgnspss-----SSNYCNLMCCRKMTqgkCPVNTFVHESLADVKAVCSQkkvtckngq--TNCYQSKSTMRTDRETGSSkypnCAKTTQVEKHIIVACGGkpSVPVHFDASV---  -----mqdwaTfkkkhltdtwdvdcDNLMPTSLFD---CKDKNTFIYSLPGPKALCRG-----vifSADVLSNSEFYLAENVKPRK---CKYKLLKSSNRICIRCEH--ELPVHAGVgicp</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.50 (Å)  kesa---AAKFERQHMDSGNSpssSSNYCNLMCCRKMTqgkCPVNTFVHESLADVKAVCSQKKVTCkngqtncYOQSKSTMRTDRETgsskYPNC-AKTTQVEKHIIVACGGkpSVPVHFDAS---v  ---mqdWATfkkkhltdtwdvdcDNLMPTSLFD---CKDKNTFIYSLPGPKALCRGVIFSA-----DVLNSEFYLAENVK---PRKPCYKLLKSSNRICIRCEH--ELPVHAGVgicp-</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=21.50% (23/107) simi=31.78% (34/107)  kesaaakferqhmdsgnspssssnycnlmmccrkmqgk-----CKPVNTFVHESLADVKAVCSQKKVTCCKNGQTncyqSKSTMRTDRETgSSkYPnCAKTTQVEKHIIVACGGKPSVPVHFDASV-----dasv  -----mqdwaTfkkkhltdtwdvdcDNLMPTSLFD---CKDKNTFIYSLPGPKALCRG-----RGMIFSAADVL---SNSEFYLAENV---KPRKP---CKYKLLKSSNRICIRCEH--EHELPHAGVgicp----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.06 (Å)  KESAAAKFERQHMDSGNSPSSSSNYCNLMCCRKMTqgkCPVNTFVHESLADVKAVCS-----qkkvtckngqTNCYQSKSTMRTDRETGSSkypnCAKTTQVEKHIIVACGGkpSVPVHFDASV---  MOD-WATfkkkhltdtwdv---D-CNLMPT-SLFD---CKDKNTFIYSLPGPKALCRGvifs-----ADVLSNSEFYLAENVKPRK---PCKYKLLKSSNRICIRCEH--ELPVHAGVgicp</p>
181	<p><b>1bsrA</b> (124)</p> <hr/> <p><b>1pu3A</b> (105)</p>	N	23.81	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.21 (Å)  kesaaakferqhmdsgnspss-----SSNYCNLMCCRKMTqgkCPVNTFVHESLADVKAVCSQkkvtckngq--TNCYQSKSTMRTDRETGSSkypnCAKTTQVEKHIIVACGGkpSVPVHFDASV--  -----mqdwlTfqqkhitntrdvdcDNILSTNLFH---CKDKNTFIYSRPEPKAICKG-----iiaSKNVLITSEFYLSDCNVIISRP---CKYKLLKSTNKFCVTIEN-QAPVHVGvGsc</p> <p><b>SARST:</b> aliSize=96 (resi) RMSD=10.50 (Å)  kesa---AAKFERQHMDSGNSpssSSNYCNLMCCRKMTqgkCPVNTFVHESLADVKAVCSQkkvtckngqT--TNCYQSKSTMRTDRETgsskYPNC-AKTTQVEKHIIVACGGkpSVPVHFDAS---v  ---mqdWLTfqqkhitntrdvdcDNILSTNLFH---CKDKNTFIYSRPEPKAICKG-----iiasKNVLITSEFYLSDCNVIISRP---CKYKLLKSTNKFCVTIEN-QAPVHVGvGsc-</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=25.71% (27/105) simi=35.24% (37/105)  kesaaakferqhmdsgnspssssnycnlmmccrkmqgk-----CKPVNTFVHESLADVKAVCSQKKVTCCKNGQTncyqskSTMRTDRETgSSkYPnCAKTTQVEKHIIVACGGKPSVPVHFDASV-----dasv  -----mqdwlTfqqkhitntrdvdcDNILSTNLFH---CKDKNTFIYSRPEPKAICKG-----iiasKNVLITSEFYLSDCNVIISRP---CKYKLLKSTNKFCVTIEN-QAPVHVGvGsc----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.79 (Å)  KESAAAKFERQHMDSGNSPSSSSNYCNLMCCRKMTqgkCPVNTFVHESLADVKAVCS-----qkkvtckngqTNCYQSKSTMRTDRETGSSkypnCAKTTQVEKHIIVACGGkpSVPVHFDASV--  -MQDWLTfqqkhitnt-rdv---D-CNILSTNLFH---CKDKNTFIYSRPEPKAICKG-----iiasKNVLITSEFYLSDCNVIISRP---CKYKLLKSTNKFCVTIEN-QAPVHVGvGsc</p>
182	<p><b>1bsrA</b> (124)</p> <hr/> <p><b>1mfA</b> (120)</p>	N	42.50	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=1.45 (Å)  kesaaakferqhmdsgnspss-----SSNYCNLMCCRKMTQgkCPVNTFVHESLADVKAVCSQkkvtckngqTNCYQSKSTMRTDRETGSSkYPnCAKTTQVEKHIIVACGGkpSVPVHFDASV  -----mqdgmYqRfLRQHvhpeetgGSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSICTTNIQCKNGKMNCHG--VVKVTD CRTD GSSRAPNCRIRAIASRRVVIACEGFPQVPVHFDG--</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=9.33 (Å)  kes---AAKFERQHMD--SGNSPSSSSNYCNLMCCRKMTQgkCPVNTFVHESLADVKAVCSQKKVTCCKNGQTNCYQSKSTMRTDRETGSSkYPnCAKTTQVEKHIIVACGGKPSVPVHFD--asv  ---mqdgmYQRfLRQHvhpeetgGSD--RYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSICTTNIQCKNGKMNCHG--GVVKVTD CRTD GSSRAPNCRIRAIASRRVVIACEGFPQVPVHFDg---</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=43.33% (52/120) simi=63.33% (76/120)  kesaaa-----KFERQHMDSGNSPSSSSNYCNLMCCRKMTQgkCPVNTFVHESLADVKAVCSQKKVTCCKNGQTNCYQSKSTMRTDRETGSSkYPnCAKTTQVEKHIIVACGGKPSVPVHFD--asv  -----mqdgmYQRfLRQHvhpeet-gGSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSICTTNIQCKNGKMNCHG--GVVKVTD CRTD GSSRAPNCRIRAIASRRVVIACEGFPQVPVHFDg---</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.19 (Å)  ke---SAAAKFERQHMDSGNSPSSSSNYCNLMCCRKMTQgkCPVNTFVHESLADVKAVCSQKKVTCCKNGQTNCYQSKSTMRTDRETGSSkYPnCAKTTQVEKHIIVACGGKPSVPVHFDASV  --mqdgmYQRfLRQHvhpeet-gGSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSICTTNIQCKNGKMNCHG--VVKVTD CRTD GSSRAPNCRIRAIASRRVVIACEGFPQVPVHFDG--</p>

183	<p>1bsrA (124)</p> <hr/> <p>2aasA (124)</p>	N	81.45	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.40 (Å)  kesaaakferqhmdsgnspss-----SSSNYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaakferqhmdsstaaSSSNYNQMKSRLTKDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=8.87 (Å)  kesa----AAKFERQHMDsgNSPSSS-SNYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDAS-v  ---ketaAAKFERQHMDsSTSAASsSNYNQMKSRLTKDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KESAAAKFERQHMDSGNSPSSSSYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSYNQMKSRLTKDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.40 (Å)  KESAAAKFERQHMDSGNSPSSSSYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSYNQMKSRLTKDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV</p>
184	<p>1bsrA (124)</p> <hr/> <p>2hkyA (129)</p>	N	35.48	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.01 (Å)  kesaaakferqhmdsgnspssss-----NYCNLMCCrKMTQ--GKCKPVNTFVHESLADVKAVCSOKKVTCKNG-OTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGK-----PSVPVHFDASV  -----mkpkgmtssqwfkiqhmqpspQACNSAMK--NINKhtKRCKDLNTEFLHEPFSSVAITCQTPKIAC-KNgDKNCHOSHGPVSLTMCKLI-SGKYPNCRYEKRONKSYVVACKPPqkksdqfHLVPVHLDRVL</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=10.20 (Å)  k-----ESAAAKFERQHMDSGNSpsSSSNYNLMMCCRkmtqgKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACG-----GKPSVPVHFDAS-v  -mkpkgMTSSQWFKIHMQSPQ--ACNSAMKNIINKHTK----RCKDLNTEFLHEPFSSVAITCQTPKIACKNGDKNCHOSHGPVSLTMCK-LTSGKYPNCRYEKRONKSYVVACKppqkksdqfHLVPVHLDRV1-</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=41.94% (52/124) simi=53.23% (66/124)  kesaaak-----FERQHMDsgnSPSSsSNYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVAC---GGKPS-----VPVHFDASV  -----mkpkgmtssqwfkiHMQSP--SPOA----CNSAMKNIINKHTK--RCKDLNTEFLHEPFSSVAITCQTPKIACKNGDKNCHOSHGPVSLTMCKLI-SGKYPNCRYEKRONKSYVVACKppQKkdsqqfhlVPVHLDRV1---</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.85 (Å)  ---ESAAAKFERQHMDSG-nsPsssnYNLMMCCrKMTQ--GKCKPVNTFVHESLADVKAVCSOKKVTCKNG-OTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGK-----PSVPVHFDASV  mkpkgMTSSQWFKIHMQSP--Q----ACNSAMK--NINKhtKRCKDLNTEFLHEPFSSVAITCQTPKIAC-KNgDKNCHOSHGPVSLTMCKLI-SGKYPNCRYEKRONKSYVVACKPPqkksdqfHLVPVHLDRVL</p>
185	<p>1bsrA (124)</p> <hr/> <p>2k11A (127)</p>	N	70.16	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.53 (Å)  kesaaakferqhmdsgnspss-----SSSNYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesrakkfqrqhmdsdsspsSSSYCNQMRRRNMTGRCCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEISPYVPVHFDASVeds</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=9.80 (Å)  k-ESAAAKFERQHMD--SGNSpSSsSNYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDAS-----sv  -kESRAKFKFQROHMDsdSPSS--SS--TYCNQMRRRNMTGRCCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEISPYVPVHFDASveds--</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=72.58% (90/124) simi=81.45% (101/124)  KESAAAKFERQHMDSGNSPSSSSYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESRAKFKFQROHMDSDSPSSSSSYCNQMRRRNMTGRCCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEISPYVPVHFDASVeds</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.40 (Å)  KESAAAKFERQHMDS--GNSPssSNYNLMMCCRKMTOGKCKPVNTFVHESLADVKAVCSOKKVTCKNGOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESRAKFKFQROHMDSDsSPSS--SSTYNQMRRRNMTGRCCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEISPYVPVHFDASVeds</p>

186	N	26.36	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.18 (Å)  kesaaakferqhm<del>dsngspss</del>-----SSNYCNLMCC--RK--MTqgkCKPVNTFVHESLADYKAVCSQkKvtckngq--TNCYQSKSTMRIIDRETgSskypNCAKTTQVEKHIIVACGGkpSVPVHFDASV--  -----drewekfktkhi<del>tsqsvADFNCNRT</del>NDpaYTPdGQ---CKPINTFIHSTTGPVKEICRR--A-----tgrVNKSSIQOFTLITKPN--I---RCKYSQSNTTNFTCITCRD--NYPVHFVKTGkc</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=10.56 (Å)  kes--AAAKFERQHMDSGNSPSSSSNYCnlmmccrkITQ-----GKCKPVNTFVHESLADYKAVCSQKVTCKngqtncYQSKSTMRIIDRETgSSKYPncAKTTQVEKHIIVACGGkpSVPVHFDASV--sv  ---drEWEKFKTKHI<del>TSQSVADFNCNRT</del>-----MNDpaytpd<del>CKPINTFIHSTTGPVKEICRR</del>ATGRV-----NKSSIQOFTLITKPN--NPIRC--KYSQSNTTNFTCITCRD--NYPVHFVKTgkc--</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=32.73% (36/110) simi=48.18% (53/110)  kesaaa-----KFERQHMDsgNSPSSSSNYCNLMCCRMII--QKCKPVNTFVHESLADYKAVCSQKVTCKngqTNCYQSKSTMRIIDRETgSSKYP--NCAKTTQVEKHIIVACGGKPSVPVHF-----dasv  -----drewekfktkhi<del>tsqsvADFNCNRT</del>NDPAYTPd<del>CKPINTFIHSTTGPVKEICRR</del>ATGRV-----NKSSIQOFTLITKPN--NPIRC--KYSQSNTTNFTCITCRD--RDNYPVHFvktgkc---</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.61 (Å)  ke-SAAAKFERQHMDSGnSPSSsSNYCNLMCC--RK--MTqgkCKPVNTFVHESLADYKAVCSQ---kkvtckngqtncYQSKSTMRIIDRETgSskypNCAKTTQVEKHIIVACGGkpSVPVHFDASV--  ---dREWEKFKTKHI<del>TSQ-SVAD--FNCNRT</del>NDpaYTPdGQ---CKPINTFIHSTTGPVKEICRRatgr-----VNKSSIQOFTLITKPN--I---RCKYSQSNTTNFTCITCRD--NYPVHFVKTGkc</p>
187	N	10.50	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.85 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekl<del>enl</del>-----RDYRVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-----PDGRDITYKIDQ--GDATKIQAGTPFYLINPdNnONLRIKFAITfrprgTVE--  -----mmiviktai<del>pdvli</del>lepkvfgdergffesynqqtfeeligrk<del>vtfv</del>QDNHSSKKNVIRGLIFQRgenAQGKLRCAVLEVFDAAIDirkesptFGQWGVNLSAenKROLWPEFAHGFTVLS-EYAEFLYKATN-----YSSps</p> <p>FFLSStkrLpsylsafsknfleasydsydeieqtlqee-----EGEVIvkmk-----  EGSIL-----wndeaigiewpfsqlpLSAKDA-----aaplldqallte</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=10.11 (Å)  aqnnpyl-----FRSNKFLTLKNOHSLRLLQRFNedtekl<del>ENLRDY</del>-----RVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-----DGRDITYKID--OGDATKIQAGTPFYLINPDNNONLRIK-----  -----mmiviktai<del>pdvli</del>lepkvfgdergffesynqqtfeeligrk<del>vtfv</del>QDNHSSKKNVIRGLIFQRgenAQGKLRCAVLEVFDAAIDirkesptFGQWGVNLSAenKROLWPEFAHGFTVLS-EYAEFLYKATnysspssegsilwndeaigiewpfsqlpelsakdaaaplldqa</p> <p>---faitfrprgtvedfflssstkrLpsylsafsknfleasydsydeieqtlqeeqegvirkmpk  llte-----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=6.63% (12/181) simi=13.81% (25/181)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekl<del>enlrdy</del>rvleycskpnitllphsdsdlvlvlegqailvlvnpdgrditykldqgdaikiqagtpfyl-----  -----mmiviktai<del>pdvli</del>lepkvfgdergffesynqqtfeeligrk<del>vtfv</del>qdnhsskknvirglhfrqgenaagklvrcavgevfvd</p> <p>-----INPDNNONLRIKFAITFRPRGTVEDEFLSStkrLPSYLsafsknfleasydsydeieqtlqeeqegvirkmpk  avdirkesptfgqwgvnLSAenKROLWPEFAHGFTVLS-EYAEFLYKATnysspssegsilwndeaigiewpfsqlpelsakdaaaplldqallte-----</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=2.39 (Å)  --A-----qnpYLFRSNKFLTLKNOHSLRLLQ--RFNedtekl<del>ENLRDY</del>RVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-----PDGRDITYKIDQ--GDATKIQAGTPFYLINPdNnONLRIKFAITfrprgTVE--DFLS-----stkrLpsyls  mmiviktai-----PDVLIlepkvfgdergffesynqqtfeeligrk<del>vtfv</del>QDNHSSKKNVIRGLIFQRgenAQGKLRCAVLEVFDAAIDirkesptFGQWGVNLSAenKROLWPEFAHGFTVLS-EYAEFLYKATN-----YSSpsEGSILwndeaigiewpfsqlpel-----</p> <p>afsknfleasydsydeieqtlqeeqEGEVIv-----kmpk  -----SAKDAaaplldqallte-----</p>
188	C	6.63	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=3.06 (Å)  aqn-NpYLFRS-----NKFLTLFKN-----OHGSLRLLORfNedtekl<del>enl</del>---RDRVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-PDGRDITYKIDQ--DATKIQAGTPFYLINPdNnONLRIKFAITfrprgTVEDEFLSStkrLpsyls  ---yKEP-GVKldfetgiiENAKKSVRRlsdmkgyfideeawkmveegdpVYEVYAIQEE-EE-----ekeGLNFATTVLYGKvgnEFFmtkgYHskidRAEVYFAKKGKGMLOTPEGEARFIEMEP--TIYVPPYWAHRTNT-GDKPFIFALY-P---ADAGHDYGTI-----A-E</p> <p><del>safsknfleasydsydeieqtlqeeqegvirkmpk-----MPK-----</del>  <del>-----KG-----fskiVVEEngkvvkdnpk</del></p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=9.18 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekl<del>enlrdy</del>rvleycskpnitllphsdsdlvlvlegqailvlvnpdgrditykldqgdaikiqagtpfyl-----YRVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-PDGRDITYKIDQ--DATKIQAGTPFYLINPdNnONLRIKFAITfrprgTVEDEFLSStkrLpsyls  -----ykepfgvkldfetgiiENAKKSVRRlsdmkgyfideeawkmveegdpvvyevyaeqeekeGLNFATTVLYGKvgnEFFmtkgYHskidRAEVYFAKKGKGMLOTPEGEARFIEMEP--TIYVPPYWAHRTNT-GDKPFIFALY-P---ADAGHDYGTI-----A-E</p> <p>KFAITF-----RRPGTVEDEFLSStkrLPSYLsafsknfleasydsydeieqtlqeeqegvirkmpk  ALYPADaghd<del>vgtiaekGFSKIVVEENG</del>KVV-VKDNPK-----</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=9.39% (17/181) simi=14.92% (27/181)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekl<del>enlrdy</del>rvleycskpnitllphsdsdlvlvlegqailvlvnpdgrditykldqgdaikiqagtpfyl-----YRVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-PDGRDITYKIDQ--DATKIQAGTPFYLINPdNnONLRIKFAITfrprgTVEDEFLSStkrLpsyls  -----ykepfgvkldfetgiiENAKKSVRRlsdmkgyfideeawkmveegdpvvyevyaeqeekeGLNFATTVLYGKvgnEFFmtkgYHskidRAEVYFAKKGKGMLOTPEGEARFIEMEP--TIYVPPYWAHRTNT-GDKPFIFALY-P---ADAGHDYGTI-----A-E</p> <p>-----stkrLpsylsafsknfleasydsydeieqtlqeeqegvirkmpk  kgkggmlqtpegearfiemepgtivvppywahtintgdkpfifalypadaghd<del>vgtiaekGFSKIVVEENG</del>KVV-VKDNPK-----</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=2.10 (Å)  aqnp--YLFRS-----NKFLTLFKN-----OHGSLRLLORfNedtekl<del>enlrdy</del>RVLEYCSKPNITLLPHSD---SDLLVLEFOAILLVN-PDGRDITYKIDQ--DATKIQAGTPFYLINPdNnONLRIKFAITfrprgTVEDEFLSStkrLpsyls  ---yKEP-GVKldfetgiiENAKKSVRRlsdmkgyfideeawkmveegdpVYEVYAIQEE-EE-----ekeGLNFATTVLYGKvgnEFFmtkgYHskidRAEVYFAKKGKGMLOTPEGEARFIEMEP--TIYVPPYWAHRTNT-GDKPFIFALY-P---ADAGHDYGTI-----A-E</p> <p><del>stkrLpsylsafsknfleasydsydeieqtlqeeqegvirkmpk</del>  <del>-----FSK-IV-----VE--E-NGK--VV--VKdnpk</del></p>

189	<p>1cauA (181)</p> <p>1lr5B (159)</p>	C	11.95	<p><b>TM-align:</b> aliSize=129 (resi) RMSD=2.99 (Å)  --AONNpyLFRS--KFLTLFKNOHGLRLLORFNEDTEKLENLRDYRLECYSKPNTLLLP--HSDSLVLEGOAILVIVN-PD---RDTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLn-----SYLsafsknfleasydspsydieqtlqeeqeg  scVRDnS--VVDIsqMPOSSYGIEGLSHITVAGALNHG-----MKEVEWLOQTISGQRTPIRHSCEEVFTVTKKGTLMGSSSLkypqPQEIPIFFNTTFSIPVNDHQVWSDEHEDQVVIISR---PPAKIILYDD----wsmphtaAV-----</p> <p>vivkmpk-----  -----kfpfvwdedcfeaa</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=2.34 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekenlr-----DYRLECYSKPNTLLLP--HSDSLVLEGOAILVIVNPDG----RDTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpG--TVEDFLSS-----  -----scvrDNSlvrdisqmpqssygieglshitvagalnmgkEVEWLOQTISGQRTPIRHSCEEVFTVTKKGTLMGSSSLkypqPQEIPIFFNTTFSIPVNDHQVWSDEHEDQVVIISR---SRppAKIFLYDDwsmphtaav</p> <p>-----stkrLpsylsafsknfleasydspsydieqtlqeeqegvivkmpk  1kfpfvwdedcfeaa-----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=5.66% (9/159) simi=6.92% (11/159)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekenlrDYRLECYSKPNTLLP-----scvrDNSlvrdisqmpqssygieglshitvagalnmgkEVEWLOQTISGQRTPIRHSCEEVFTVTKKGTLMGSSSLkypqPQEIPIFFNTTFSIPVNDHQVWSDEHEDQVVIISR---PPAKIILYDDwsmphtaav</p> <p>-----egqailvlnpdgrdtykldqgdaikiqagtpfyllnpdnnqnlriLkfaITfrrpGTVEDFLSSKRLpsylsafsknfleasydspsydieqtlqeeqegvivkmpk  ddwsmphtaav1kfpfvwdedcfeaa-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.44 (Å)  --AONNpyLFRS--KFLTLFKNOHGLRLLORFNEDTEKLENLRDYRLECYSKPNTLLLP--HSDSLVLEGOAILVIVN-PD---RDTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRL--PSYLsAFSKNLEAS-----ydspsydieqtl  scVRDnS--VVDIsqMPOSSYGIEGLSHITVAGALNHG-----MKEVEWLOQTISGQRTPIRHSCEEVFTVTKKGTLMGSSSLkypqPQEIPIFFNTTFSIPVNDHQVWSDEHEDQVVIISR---PPAKIILYDDWSMPHTAAV--LKF-PVWDEdcfeaa-----</p> <p>qeeqegvivkmpk</p>
190	<p>1cauA (181)</p> <p>1x7nA (189)</p>	C	5.52	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=3.30 (Å)  aqnnpYLFRS--NKFLTLFKN-----OHGSLRLLORFNEDTEKLENLRDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----mmyKEP--GVKvdfetgiiEGAKKSVRRlsdmegyfvderawkelvekedpVVEVYAVEQ-E-----KEGLNFATTVLYGkvkgefFTKGfHAKldRAEVYVAKKGGMILQTEGDAKWI SMEP--TVVYVPPYWAHRTVNI--GDEPFIFAIY-P---ADAGHDYGTI-----A--</p> <p>safsknfleasvdspsydieqtlqeeqegvivk-----MPK-----  -----EK-----gfskivIEengekvvdnprwk</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=16.86 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekenlr-----DYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----mmyKEP--GVKvdfetgiiEGAKKSVRRlsdmegyfvderawkelvekedpVVEVYAVEQ-E-----KEGLNFATTVLYGkvkgefFTKGfHAKldRAEVYVAKKGGMILQTEGDAKWI SMEP--TVVYVPPYWAHRTVNI--GDEPFIFAIY-P---ADAGHDYGTI-----A--</p> <p>--ILKFAITfrrpGTVEDFLSSKRLnSvlSafsknfleasvdspsydieqtlqeeqegvivkmpk  pyWAHRTVNI--GDEPFIFAIY-P---ADAGHDYGTI-----A--</p> <p><b>BLAST:</b> aliSize=12 (resi) iden=4.97% (9/181) simi=6.63% (12/181)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekenlrDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----mmyKEP--GVKvdfetgiiEGAKKSVRRlsdmegyfvderawkelvekedpVVEVYAVEQ-E-----KEGLNFATTVLYGkvkgefFTKGfHAKldRAEVYVAKKGGMILQTEGDAKWI SMEP--TVVYVPPYWAHRTVNI--GDEPFIFAIY-P---ADAGHDYGTI-----A--</p> <p>RPTV--EDFLS-----stkrLpsylsafsknfleasydspsydieqtlqeeqegvivkmpk  YCKVgKE--FTkghfhakldraevyvalkgkgmlqtpegdakwismpgtvvyvppywhartvniGDEPFIFAIY-P---ADAGHDYGTI-----A--</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.40 (Å)  aqnnpYLFRS--NKFLTLFKN-----OHGSLRLLORFNEDTEKLENLRDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----mmyKEP--GVKvdfetgiiEGAKKSVRRlsdmegyfvderawkelvekedpVVEVYAVEQ-E-----KEGLNFATTVLYGkvkgefFTKGfHAKldRAEVYVAKKGGMILQTEGDAKWI SMEP--TVVYVPPYWAHRTVNI--GDEPFIFAIY-P---ADAGHDYGTI-----A--</p> <p>-.PSYLs--afsKnLEASyD--SPYDeiEOTLQEEqegvivkmpk  1ackG--Fsk--I--VIE-ENgeVKVV--DNPR-WK-----</p>
191	<p>1cauA (181)</p> <p>2ixkA (184)</p>	N	9.94	<p><b>TM-align:</b> aliSize=76 (resi) RMSD=3.89 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekenlrDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----smskatrlaipdvlfeprvfGDDRGFFESYNQRAFEACGHpvsfvQDNHSRSARGVIRGLHYQIRqaqKLRATLGEVFDADLrrgsptFGQWGERLSAENKROMWIPAGFAHGfVVLSEYAEFLYKTDFWAPEHE--RCIVWndpelkidwplQDAP--LSE</p> <p>ONLR--ILKFAI-----TFRRPPTVedfflssstkrLpsylsafsknfleasydspsydieqtlqeeqegvivkmpk-----  DFWApeHERCIVWndpelkidwplQDAPLSEK-----drqkafadadcfp</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=12.65 (Å)  aqnnpYLFRS--NKFLTLFKN-----OHGSLRLLORFNEDTEKLENLRDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----smskatrlaipdvlfeprvfGDDRGFFESYNQRAFEACGHpvsfvQDNHSRSARGVIRGLHYQIRqaqKLRATLGEVFDADLrrgsptFGQWGERLSAENKROMWIPAGFAHGfVVLSEYAEFLYKTDFWAPEHE--RCIVWndpelkidwplQDAP--LSE</p> <p>FLeASYSPYDE----ieqtlqeeqegvivkmpk  KD--RQKAFADadcfp-----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=9.39% (17/181) simi=19.89% (36/181)  aqnnpylfrsnkfltlfknqhgslrllqrfnedtekenlrDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  -----smskatrlaipdvlfeprvfGDDRGFFESYNQRAFEACGHpvsfvQDNHSRSARGVIRGLHYQIRqaqKLRATLGEVFDADLrrgsptFGQWGERLSAENKROMWIPAGFAHGfVVLSEYAEFLYKTDFWAPEHE--RCIVWndpelkidwplQDAP--LSE</p> <p>-----LNPNNONRIKFAITfrrpGTVEDFLSSKRLnSvlSafsknfleasydspsydieqtlqeeqegvivkmpk  gqwwgeRLSAENKROMWIPAGFAHGfVVLSEYAEFLYKTDFWAPEHERCIVWndpelkidwplQDAPLSEKDRQKAFADadcfp-----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.24 (Å)  --AONNpyLFRS--KFLTLFKNOHGLRLLORFNEDTEKLENLRDYRLECYSKPNTLLP--HSDSLVLEGOAILVIVN-PDGRDRTYKLDGDAIKIAGTFYLIINPNNONRIKFAITfrrpGTVEDFLSSKRLnSvl  smskatrlaipdvlfeprvfGDDRGFFESYNQRAFEACGHpvsfvQDNHSRSARGVIRGLHYQIRqaqKLRATLGEVFDADLrrgsptFGQWGERLSAENKROMWIPAGFAHGfVVLSEYAEFLYKTDFWAPEHERCIVWndpelkidwplQDAPLSEKDRQKAFADadcfp-----</p> <p>fsknfleasydspsydieqtlqeeqegvivkmpk  -----SEKDRQKAFADadcfp-----</p>



192	<p>1cauA (181)</p> <hr/> <p>2pakB (134)</p>	N	<p>11.19</p> <p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.66 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedteklelenl-----RDYRVLEYCSKPNLTLLPHHS-DSDLVLVLEFOAILVIVNPDGRDITYKIDOG-DAIKIOAGTTPFYIINPdNnONLRLIKFAITfrrpgTVED--FFLSstkrpSy-Lsafsknfleasy  -----enkvinfkkiidsrgslvaieenkniPfsIKRYYIFdTGEEPRGFANKKLEQVLVCLNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDF-S-SDCVMVLA-SD-----YYDEtdYIRQ-----Y-dN-----</p> <p>dspydeieqtlqeeqegvirkmpk-----  -----fkkyiakinl</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=10.36 (Å)  aqnnpyl--FRSNKFLTLfKNOHGSRLRLORfNEDTeklenlR--DYRVLEYCSKPNLTLLPHHSDDL-LVLVLEFOAILVIVNPDGRDITYKIDOG-DAIKIOAGTTPFYIINPDNNONLRIK-----fai tfr rpgt vedffl sstkr lpsyl safsknfleasyds  -----enKVI--FKKI--IDSRGSLVAIEE-NKNI-----PfsIKRYYIFdTGEEPRGFANKKLEqVLVCLNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDFSSDCVMVLAAsdydetdyiraydnfkkyiakinl-----</p> <p>pydeieqtlqeeqegvirkmpk  -----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=7.46% (10/134) simi=11.94% (16/134)  aqnnpylfrsnkfltlfknqhgslrllqrfnedteklelenlrdyrvleycskpnltllphhsdsdlvlvleg-----OAILVLVpdRDTYKIDODAI-KIOAGT-----  -----enkvinfkkiidsrgslvaieenkniPfsIKRYYIFdtkgeprgfhankeIQVLCNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDFSSDCVMVLAAsdydet  -----fyllnpdnnqnrlrikfai tfr rpgt vedffl sstkr lpsyl safsknfleasyds pydeieqtlqeeqegvirkmpk  dyiraydnfkkyiakinl-----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.32 (Å)  aqnnpYLFRSnlTLTIKNOHGSRLRL--qRFNedteklelenlRDYRVLEYCSKPNLTLLPHHS-DSDLVLVLEFOAILVIVNPDGRDITYKIDOG-DAIKIOAGTTPFYIINPdNnONLRLIKFAITfrrpgTVE--FFLS--stkr lpsyl-----safsknfleasyds pydeieqtlq  -----ENKVI--FKKI--IDSRGSLVAIEE-NKNI-----PfsIKRYYIFdTGEEPRGFANKKLEQVLVCLNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDF-S-SDCVMVLA-SD-----YYDEtdYIRQyd-----Nfkkyiakinl-----</p> <p>eeqegvirkmpk  -----</p>
193	<p>1cauA (181)</p> <hr/> <p>2pamA (135)</p>	N	<p>9.63</p> <p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.63 (Å)  aqnnpylfrsnkfltlfknqhgslrllqrfnedteklelenl-----RDYRVLEYCSKPNLTLLPHHS-DSDLVLVLEFOAILVIVNPDGRDITYKIDOG-DAIKIOAGTTPFYIINPdNnONLRLIKFAITfrrpgTVED--F-FLSstkr lpsyl safsknfleasy  -----enkvinfkkiidsrgslvaieenkniPfsIKRYYIFdTGEEPRGFANKKLEQVLVCLNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDF-S-SDCVMVLA-SD-----YYDEtdYiRQY-----DN-----</p> <p>dspydeieqtlqeeqegvirkmpk-----  -----fkkyiakinle</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=9.02 (Å)  aqnnpylfrsnkfltl-----FKNOHGSRLRLORfNEDTeklenlRDYRVLEYCSKPNLTLLPHHS-DSDLVLVLEFOAILVIVNPDGRDITYKIDOG-DAIKIOAGTTPFYIINPDNNONLRIK-----fai tfr rpgt vedffl sstkr lpsyl safsk  -----enkvinfkKIIDSRGSLVAIEE-NKNI-----PfsIKRYYIFdTGEEPRGFANKKLEQVLVCLNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDFSSDCVMVLAAsdydetdyiraydnfkkyiakinle-----</p> <p>nfleasyds pydeieqtlqeeqegvirkmpk  -----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=7.41% (10/135) simi=11.85% (16/135)  aqnnpylfrsnkfltlfknqhgslrllqrfnedteklelenlrdyrvleycskpnltllphhsdsdlvlvleg-----OAILVLVpdRDTYKIDODAI-KIOAGT-----  -----enkvinfkkiidsrgslvaieenkniPfsIKRYYIFdtkgeprgfnankkeIQVLCNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDFSSDCVMVLAAsdydet  -----fyllnpdnnqnrlrikfai tfr rpgt vedffl sstkr lpsyl safsknfleasyds pydeieqtlqeeqegvirkmpk  dyiraydnfkkyiakinle-----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=2.14 (Å)  aqnnpYLFRSnlTLTIKNOHGSRLRL--ORFNedteklelenlRDYRVLEYCSKPNLTLLPHHS-DSDLVLVLEFOAILVIVNPDGRDITYKIDOG-DAIKIOAGTTPFYIINPdNnONLRLIKFAITfrrpgTVE--DFFL--stkr lpsyl-----safsknfleasyds pydeieqtl  -----ENKVI--FKKI--IDSRGSLVAIEE-NKNI-----PfsIKRYYIFdTGEEPRGFANKKLEQVLVCLNNSCRVIDDGNIIQEITLSPaVGLYVGPVAVWHEMHDF-S-SDCVMVLA-SD-----YYDEtdYiRQYd-----Nfkkyiakinle-----</p> <p>lqeeqegvirkmpk  -----</p>
194	<p>1cm0B (161)</p> <hr/> <p>1m44A (177)</p>	M	<p>6.83</p> <p><b>TM-align:</b> aliSize=145 (resi) RMSD=3.18 (Å)  KVIEFHVGNslnqkpnkklmwlvglonvfsholprmpkYITRLVfDpkhktlAlkdRVIGGICFRMFpS-----SOGFTEIVFCVTSNEOVKGYGTHMNLHKEYHIKhdILNFLTyaDEYIGYFKKOFskEIKIPkTKYVGYik-----DYEg-ATLMGCELNp-----  VHTARLVHT-A--D-L--DSETRQDIRQMTGAFAGDFTTDWEHT-L-GGMHALIWHHGAIIAHAAVIQRRliyrnaLRCGYVEGVAVRADWRGQRLVSA L DAVEQVMRGA-YQLGALSSSARARRLYASRWLPWHG-PT--SVLA--ptgpvrTPDdGTVFVLPID-isl dtsaelmcdwragdvw</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=13.22 (Å)  kviefhvngslnqkpnkklmwlvglonvfsholprmpkYITRLVfDpkhktlAlkdRVIGGICFRMFpS-----SOGFTEIVFCVTSNEOVKGYGTHMNLHKEYHIKhdILNFLTyaDEYIGYFKKOFskEIK-----IPKTKYVGYIKDYE  -----vhtarlvhtadldsetrqdirqmvTGAFAGDFTTDWEHTlggmhalIWHHGAIIAHAAVIQRRliyrnaLRCGYVEGVAVRADWRGQRLVSA L DAVEQVMRGA-YQLGALSSSARARRLYASRWLPWHgptsvlapTgpvrTPDDGTVFVLPID-isl dtsaelmcdwr</p> <p>GAT---MGCELN-----p  DTSdtsAELMCDwragdvw-</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=3.73% (6/161) simi=6.83% (11/161)  kviefhvngslnqkpnkklmwlvglonvfsholprmpkeyitrlvfdpkhktlAlkdgrviggicfrmfpsqgftvfcavtsneovkgygthlmnlhkeyhikhdiInfltyadeyaigyfkkgfskEIKIPkTKYV-----vhtarlvhtadldsetrqdirqmvTGAFAGDFTTDWEHTlggmhal  -----iwhhgaiiahaaviqrriyrnalrcGVYK-----DYEgATMGCELN-----p  -----DTSdtsAELMCDwragdvw-----</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=2.43 (Å)  kv-TEFHVGNslnqkpnkklmwlvglonvfsholprmpkYITRLVfDpkhktlAlkdRVIGGICFRMFpS-----OGFTEIVFCVTSNEOVKGYGTHMNLHKEYHIKhdILNFLTyaDEYIGYFKKOFskEIK-----kipkTKYVGYIKDY--EGATLMGCELN-----  -----vHTARLVHTA--D-L--DSETRQDIRQMTGAFAGDFTTDWEHT-L-GGMHALIWHHGAIIAHAAVIQRRliyrnaLRCGYVEGVAVRADWRGQRLVSA L DAVEQVMRGA-YQLGALSSSARARRLYASRWLPWHgptsvl--A-PT-GP-VRTpddDG-TVFVLPID-isl dtsaelmcdwr  -----pc  agdvw--</p>

195	<p>1cm0B (161)</p> <hr/> <p>1s3zB (145)</p>	C	8.97	<p><b>TM-align:</b> aliSize=125 (resi) RMSD=2.77 (Å)  kvTEFHVvgnslnqkpnkILMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSEkEkipktyvgvik-DYEGatlmgcelpn----</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=3.18 (Å)  kviefhvgnslnqkpnkii-----LMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPSOG-----FTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSE-----kEkipktyvgvikdyegatlmgcelpn-----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=6.90% (10/145) simi=11.03% (16/145)  kviefhvgnslnqkpnkilmwlvglqnvfshqlprmpkeyitrlvfdpkhktlalikdgrviggicfrmfpsqgfteivfcavtsneqvkyggt-----MNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSE-----kEkipktyvgvikdyegatlmgcelpn-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.14 (Å)  kvTEFHVvgnslnqkpnkILMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSEkEkipktyvgvikdyegATLMGCELNP-c-----MDIRQM-----NKTHLEHWRLRKQLW--GHPDDAHLADGEEiIQAdhLASFIAMADGVAIGFADASTRHdyvngcdsSPVVFLEGIPLPSFRQVAKQIAAVQRWGTNKGCREMASDTSpNtiSQKVHQAALGFEET-----ERVIFYRKRCc-----</p>
196	<p>1cm0B (161)</p> <hr/> <p>1s5kA (153)</p>	C	7.84	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=2.90 (Å)  kvTEFHVvgnslnqkpnkILMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSEkEkipktyvgvik-DYEGatlmgcelpn----</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=3.20 (Å)  kviefhvgnslnqkpnkii-----LMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPSOG-----FTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSE-----kEkipktyvgvikdyegatlmgcelpn-----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=6.54% (10/153) simi=10.46% (16/153)  kviefhvgnslnqkpnkilmwlvglqnvfshqlprmpkeyitrlvfdpkhktlalikdgrviggicfrmfpsqgfteivfcavtsneqvkyggt-----MNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSE-----kEkipktyvgvikdyegatlmgcelpn-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.15 (Å)  kvTEFHVvgnslnqkpnkILMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSEkEkipktyvgvikdyegATLMGCELNP-c-----MDIRQM-----NKTHLEHWRLRKQLW--GHPDDAHLADGEEiIQAdhLASFIAMADGVAIGFADASTRHdyvngcdsSPVVFLEGIPLPSFRQVAKQIAAVQRWGTNKGCREMASDTSpNtiSQKVHQAALGFEET-----ERVIFYRKRCc-----</p>
197	<p>1cm0B (161)</p> <hr/> <p>2vbqB (144)</p>	C	8.33	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=2.81 (Å)  kviEFHVvgnslnqkpnkILMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSEkEkipktyvgvik-DYEGatlmgcelpn----</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=3.66 (Å)  kviefhvgnslnqkpnkii-----LMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPSOG-----FTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSE-----kEkipktyvgvikdyegatlmgcelpn-----</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=6.94% (10/144) simi=11.11% (16/144)  kviefhvgnslnqkpnkilmwlvglqnvfshqlprmpkeyitrlvfdpkhktlalikdgrviggicfrmfpsqgfteivfcavtsneqvkyggt-----MNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSE-----kEkipktyvgvikdyegatlmgcelpn-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.10 (Å)  kviEFHVvgnslnqkpnkILMWVGLONVFSHQLrmpkEYITRLVFD--PK--HKTLLALIKDGRVIGICFRMFPS-----OGFTEIVFCAVTSNEOVKYGTHMNLKEYHIKHDILNFLTAD--FY--AIGYFKKQGFSEkEkipktyvgvikdyegATLMGCELNP-c-----MDIRQM-----NKTHLEHWRLRKQLW--GHPDDAHLADGEEiIQAdhLASFIAMADGVAIGFADASTRHdyvngcdsSPVVFLEGIPLPSFRQVAKQIAAVQRWGTNKGCREMASDTSpNtiSQKVHQAALGFEET-----ERVIFYRKRCc-----</p>



201	1d7eA (119)	N	14.16	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=2.13 (Å)  vafgsedientla-KMDdGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPC--TDSPEFYGKFKEGVASGN-LNT--MFEYTFDYQM-TPTKVKVHMKKAL-----SYWVFVKRV  -----gIFF-PALEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNREGGKaRVEgmSRLEQLEKKDgSKIWTRFALSvSaegkvYLLALVRD-</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=3.37 (Å)  vafgsedientlakmd---DGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPCTdsPEFYGKFKEGVASGNLNTM----FYEYTFDY--QmTPTKVKVHMKK-----ALSYWVFVK-rv  -----giffPALAQNMGGAVLINENDEVMFFNPAEKLWYKREEVIGNNIDMLIPRDL--RPAHPEYIRHNREGGKARVEgmSRLEQLEKKDg-SKIWTRFALSvsaegKVYLLALVRd--</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=13.27% (15/113) simi=25.66% (29/113)  vafgsedientlakmdldgldglaf-----GAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFF----KIVAPCTdsPEFYGKFKEG-----vasgnlntmfeytfdyqmtptkvkvhmkkalsywfvrkrv  -----giffpaleqnmngavlinendevmffnPAEKLWYKREEVIGNNIDmliprdLRPA--HPEYIRHNREGGkarvegmsrelqlekkdgskiwtrfalskvsagkvvylalvr-----</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=2.10 (Å)  vafgsedientLaKMDdGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPC-TDSPEFYGKFKEGVASGN-LNT-MFEYTFDYQM-TPTKVKVHMKKAL-----SYWVFVKR-v  -----GIFFP--ALEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNREGGKaRVEgmSRLEQLEKKDgSKIWTRFALSvSaegkvYLLALVRDh-</p>
	1v9zA (113)			
202	1d7eA (119)	N	14.04	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.16 (Å)  vafgsedientla-KMDdGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPC--TDSPEFYGKFKEGVASGN-LNT--MFEYTFDYQM-TPTKVKVHMKKAL-----SYWVFVKRV  -----gIFF-PALEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNREGGKaRVEgmSRLEQLEKKDgSKIWTRFALSvSaegkvYLLALVRDA</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=4.06 (Å)  vafgsedientlakmd---DGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdvaPCTDSPEFYGKFKEGVAS-----GNlntMFEYTFDYQmTPTKVKVHMKK-----ALSYWVFVKR-v  -----giffPALAQNMGGAVLINENDEVMFFNPAEKLWYKREEVIGNNI-----DMLIPRDLRPAHPEYIRHnreggkarvegms--RELQLEKKDg-SKIWTRFALSvsaegKVYLLALVRDa-</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=13.16% (15/114) simi=25.44% (29/114)  vafgsedientlakmdldgldglaf-----GAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFF----KIVAPCTdsPEFYGKFKEG-----vasgnlntmfeytfdyqmtptkvkvhmkkalsywfvrkrv  -----giffpaleqnmngavlinendevmffnPAEKLWYKREEVIGNNIDmliprdLRPA--HPEYIRHNREGGkarvegmsrelqlekkdgskiwtrfalskvsagkvvylalvrda-----</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=2.10 (Å)  vafgsedientLaKMDdGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPC-TDSPEFYGKFKEGVASGN-LNT-MFEYTFDYQM-TPTKVKVHMKKAL-----SYWVFVKRV-  -----GIFFP--ALEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNREGGKaRVEgmSRLEQLEKKDgSKIWTRFALSvSaegkvYLLALVRDAh</p>
	1vb6A (114)			
203	1d7eA (119)	N	15.13	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.39 (Å)  vafgsedient--La-KMDdGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPC--DSPEFYGKFKEGVASGNLNTMFEYTFDYOM-TPTKVKVHMKKAL-----SYWVFVKRV----  -----l1P-eIFRQ-TVEHAPIAISITLTKANTLYANRAFRFTTGYGSEEVLGKNES--ILSNgtPRLVY-QALWGRLAQKK-PWSGVLNRRKDKLYLAELTVAPVineagetiYLGMRDtselh</p> <p><b>SARST:</b> aliSize=101 (resi) RMSD=3.00 (Å)  vafgsedientlakmd---DGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPCDSPEFYGKFKEGVASGNLNTMFEYTFDYOM-TPTKVKVHMKK-----ALSYWVFVKR-----v  -----l1peifrqTVEHAPIAISITLTKANTLYANRAFRFTTGYGSEEVLGKNESILSN-GTPRLVY-QALWGRLAQKKPWSGVLNRRKDKLYLAELTVAPVineagetiYLGMRDtselh-</p> <p><b>BLAST:</b> aliSize=19 (resi) iden=12.61% (15/119) simi=15.97% (19/119)  vafgsedientlakmdldgldglaf-----GAIQLDGDGNILQYNAEGDITGRDPKQVIGKN-----ffkdvapctdspefygkfkEGVASGNlntmfeytfdyqmtptkvk  -----l1peifrqTVEHAPIAISITLTKANTLYANRAFRFTTGYGSEEVLGKNESisngtprlvyyqalwgrlaqkkpwsvglvnrrkdktylaeltvapvineagetiYlgmhrdtseih-----  vhmkkalsywfvrkrv  -----</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=1.85 (Å)  vafgsedientLaKMDdGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFFKdVAPC---tdSPEFYGKFKEGVASGNLNTMFEYTFDYOM-TPTKVKVHMKKAL-----SYWVFVKRV----  L---L--P-eIFRQ-----TVEHAPIAISITLTKANTLYANRAFRFTTGYGSEEVLGKNES--ILSNgttp--RLVY-QALWGRLAQKK-PWSGVLNRRKDKLYLAELTVAPVineagetiYLGMRDtselh</p>
	2gj3A (119)			





210	<p>1dz3A (123)</p> <hr/> <p>1natA (119)</p>	C	29.41	<p><b>TM-align:</b> aliSize=107 (resi) RMSD=2.17 (Å)  SIVCTADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENlahhirqvygkt-----  NEKILVDDQYGRIRLLNEVFNKEG-YQT-FQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPFID-----eirдавккylpl</p> <p><b>SARST:</b> aliSize=114 (resi) RMSD=7.16 (Å)  s-IKVCADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIRQVYG---kt  -nEKILVDDQYGRIRLLNEVFNKEG-YQT-FQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKVIDE-NIRVIMTAYGELDMIQESKELGALTHFAKPFID--DEIRDAVKKYlpl--</p> <p><b>BLAST:</b> aliSize=72 (resi) iden=30.25% (36/119) simi=60.50% (72/119)  si--KVCADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIRQ----vygkt  --nekILVDDQYGRIRLLNEVFNKEGYQTFQAA--NGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPFIDIEIRDAVKKylpl-----</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=1.71 (Å)  SIVCTADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIROVYIGK-t  NEKILVDDQYGRIRLLNEVFNKEG-YQT-FQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPF--DIDEIRDAVKKYLPI-</p>
211	<p>1dz3A (123)</p> <hr/> <p>1peyC (120)</p>	C	29.17	<p><b>TM-align:</b> aliSize=106 (resi) RMSD=2.08 (Å)  -SIVCTADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENlahhirqvygkt-----  mNEKILVDDQSGIRIRLLNEVFNKEG-YQT-FQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPFID-----eirдавккylpl</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=7.40 (Å)  s--IKVCADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIROVYIGK----t  -mnEKILVDDQSGIRIRLLNEVFNKEG-YQTFQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKVIDEN-IRVIMTAYGELDMIQESKELGALTHFAKPF--DIDEIRDAVKKylpl-</p> <p><b>BLAST:</b> aliSize=72 (resi) iden=30.00% (36/120) simi=60.00% (72/120)  si---KVCADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIRO----vygkt  --mnekILVDDQSGIRIRLLNEVFNKEGYQTFQAA--NGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPFIDIEIRDAVKKylpl-----</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=1.67 (Å)  -SIVCTADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIROVYIGK-t  mNEKILVDDQSGIRIRLLNEVFNKEG-YQT-FQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPF--DIDEIRDAVKKYLPI-</p>
212	<p>1dz3A (123)</p> <hr/> <p>1puxA (124)</p>	C	26.83	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=2.87 (Å)  --SIVCTADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENlahhirqvygkt-----  mmNEKILVDDQYGRIRLLNEVFNKEGYQTFQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKVIDENIRVIMTAYGELDMIQESKELGALTHFAKPFID--DIDEIRDAVKKYLPLKsn</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=2.79 (Å)  si----KVCADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENlahhirqvygkt  --mmnekILVDDQYGRIRLLNEVFNKEG-YQT-FQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKVIDE-NIRVIMTAYGELDMIQESKELGALTHFAKPFID--DIDEIRDAVKKYLPLKsn-----</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=28.46% (35/123) simi=52.03% (64/123)  si----KVCADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENlahhirqvygkt  --mmnekILVDDQYGRIRLLNEVFNKEGYQTFQAA--NGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKV-IDENIRVIMTAYGELDMIQESKELGALTHFAKPFID--DIDEIRDAVKKYLPLKsn-----</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=2.43 (Å)  --SIVCTADDNRELVSLLDEYISSQpDMEVIGTAYNGQDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGFEHQPNVIMLTAFCQEDVTKKAVELGASYFILKPFDMENLAHHIROVYIGK----kt  mmNEKILVDDQYGRIRLLNEVFNKEG-YQTFQAAANGLQALDIVTKERPDLVLLDMKIPGMDGIEILKRMKVIDE--NIRVIMTAYGELDMIQESKELGALTHFAKPF--DIDEIRDAVKKYLPLKsn--</p>

213	1dz3A (123)  2hf9A (211)	C	<p>9.76</p> <p><b>TM-align:</b> aliSize=98 (resi) RMSD=3.18 (Å)  SIKVCIADDNRELVSLLDEYISS-Q--P-----DMEVIGTAYNGDCLQMLEEKRPDILLDDI-MPh-LDGL--A-VLErIragfehqpNVIIMLTA-F-----GOEDVTKKAVE-LG  kdilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPAD--FDLGTGTHKRIVVStEG-ddTIEkHPgIMK-T-----ADLIVInkIdladavgaDIKKMENDAKR</p> <p>--LGSYFIIKPFDMEnlahhirqvvgkt-----  inPDLEVVLLSLKTM-----gfdkvliefieksvkev</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=7.73 (Å)  sIKVCIADDNRELVSLLDEYISSQPDMEVIGTAYNG--ODCLOMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVTKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----  -kdilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPADFDLGTGTHKRIVVStEG-ddTIEkHPgIMK-T-----ADLIVInkIdladavgaDIKKMENDAKR</p> <p>-----pfdmEnlahhirqvvgkt  vvlIskImegfdkvliefieksvkev-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.07% (5/123) simi=7.32% (9/123)  sikvcIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVTKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----  --kdilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPADFDLGTGTHKRIVVStEG-ddTIEkHPgIMK-T-----ADLIVInkIdladavgaDIKKMENDAKR</p> <p>-----lIdeyissqpdmevigtayngqdcLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVTKKAVELGASYFIIKPFDMEnlahhirqvvgkt  vvlIskImegfdkvliefieksvkev-----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=2.50 (Å)  kdilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPADFDLGTGTHKRIVVStEG-ddTIEkHPgIMK-T-----ADLIVInkIdladavgaDIKKMENDAKR</p> <p>IKAVEIGSYFIIKPF--D-MENLAHHIROVYVYKGT--  KRINP-DLEVVLLSLKtmEgFDKVLLEFIEKSVKEV</p>
214	1dz3A (123)  2hf9B (209)	C	<p>10.57</p> <p><b>TM-align:</b> aliSize=100 (resi) RMSD=3.21 (Å)  SIKVCIIADDNRELVSLLDEYISS-Q--P-----DMEVIGTAYNGDCLQMLEEKRPDILLDDI-MPh-LDGLAVIERIRagfehQPNIIMLTA--F----GOEDVTKKAVE-LG  dilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPA--DFDLGTGTHKRIVVStEG-ddTIEKH-PGImK-----TADLIVInkIdladavgaDIKKMENDAKRINP</p> <p>-SYFIIKPFDMEnlahhirqvvgkt-----  dLEVVLLSLKTM-----gfdkvliefieksvkev</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=6.53 (Å)  sikvcIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVTKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----  --dilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPADFDLGTGTHKRIVVStEG-ddTIEKH-PGImK-----TADLIVInkIdladavgaDIKKMENDAKR</p> <p>-----pfdmEnlahhirqvvgkt  inkidladavgaDIKKMENDAKRINPdaevvlIskImegfdkvliefieksvkev-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.07% (5/123) simi=7.32% (9/123)  sikvcIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVTKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----  --dilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPADFDLGTGTHKRIVVStEG-ddTIEKH-PGImK-----TADLIVInkIdladavgaDIKKMENDAKR</p> <p>-----lIdeyissqpdmevigtayngqdcLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVTKKAVELGASYFIIKPFDMEnlahhirqvvgkt  lIskImegfdkvliefieksvkev-----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=2.59 (Å)  dilkankrladknrklInkhgVAFDFMGAIGSGKTLITKLLIDnLkdKykiaciagdviaKfdaermekhgakvvpLntgkechldahlvghalednIndeiDLLEFENVGLICPADFDLGTGTHKRIVVStEG-ddTIEKH-PGImK-----TADLIVInkIdladavgaDIKKMENDAKR</p> <p>L-G-SYFIIKPFDMEnlahhirqvvgkt-----  InPDLEVVLLSLKtmEgFDKVLLEFIEKSVKEV</p>
215	1dz3A (123)  2j48A (119)	C	<p>12.61</p> <p><b>TM-align:</b> aliSize=99 (resi) RMSD=2.81 (Å)  SIKVCIIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDI-MPhLdGLAVLERIRAGF-E-EHPNVIIMLTAfgQEDVtKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----  AGHILLEEEDAAATVVCMLTAAG--FKVIWLVDCSTALDQDLLOPVIIMAWPppDQ-S-CULLOHLREHQADpPPLVLFGE--PPVD-PLLTAAQASAILSKP----LD-----pqlllttlqglcppn</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=8.34 (Å)  si--KVCIIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDI-MPhLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVtKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----kt  --aghILLEEEDAAATVVCMLTAAG--FKVIWLVDCSTALDQDLLOPVIIMAWPppDQ-S-CULLOHLREHQADpPPLVLFGE--PPVD-PLLTAAQASAILSKP----LD-----pqlllttlqglcppn</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=21.01% (25/119) simi=43.70% (52/119)  sik--VCIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDIIMPHLDGLAVLERIRAGF--EHPNVIIMLTAfgQEDVtKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----ahhirqvvgkt  ---aghILLEEEDAAATVVCMLTAAG--FKVIWLVDCSTALDQDLLOPVIIMAWPppDQ-S-CULLOHLREHQADpPPLVLFGE--PPVD-PLLTAAQASAILSKP----LD-----pqlllttlqglcppn</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=2.40 (Å)  SIKVCIIADDNRELVSLLDEYISSQPDMEVIGTAYNGDCLQMLEEKRPDILLDDI-MPhLdGLAVLERIRAGF-E-EHPNVIIMLTAfgQEDVtKKAVELGASYFIIKPFDMEnlahhirqvvgkt-----  AGHILLEEEDAAATVVCMLTAAG--FKVIWLVDCSTALDQDLLOPVIIMAWPppDQ-S-CULLOHLREHQADpPPLVLFGE--PPVD-PLLTAAQASAILSKP----LD-----pqlllttlqglcppn</p>



216	<p>1dz3A (123)</p> <p>3cu5B (129)</p>	C	22.76	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=2.43 (Å)  S I K V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t -----  S L R I L I V D D E K L T R D G I I A N I N W K A L S F D Q I D Q A D D G I N A I Q I A L K H P N V L I T V R M P R M D G I E L V D N I L K L Y P D C S V I F M S G Y S D K E Y L A A I K F R A I R Y V E K P I D P S E I M D A L K Q S I q t v l q h q a q</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=8.11 (Å)  s - I K V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t ----- k t  - s L R I L I V D D E K L T R D G I I A N I N W K A L S F D Q I D Q A D D G I N A I Q I A L K H P N V L I T V R M P R M D G I E L V D N I L K L Y P D C S V I F M S G Y S D K E Y L A A I K F R A I R Y V E K P I D P S E I M D A L K Q S I q t v l q h q a q - -</p> <p><b>BLAST:</b> aliSize=62 (resi) iden=22.76% (28/123) simi=50.41% (62/123)  S I K V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t ----- v y g k t  S L R I L I V D D E K L T R D G I I A N I N W K A L S F D Q I D Q A D D G I N A I Q I A L K H P N V L I T V R M P R M D G I E L V D N I L K L Y P D C S V I F M S G Y S D K E Y L A A I K F R A I R Y V E K P I D P S E I M D A L K Q S I q t v l q h q a q - - - -</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=1.98 (Å)  S I K V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t -----  S L R I L I V D D E K L T R D G I I A N I N W K A L S F D Q I D Q A D D G I N A I Q I A L K H P N V L I T V R M P R M D G I E L V D N I L K L Y P D C S V I F M S G Y S D K E Y L A A I K F R A I R Y V E K P I D P S E I M D A L K Q S I q t v l q h q a q</p>
217	<p>1dz3A (123)</p> <p>6chyA (128)</p>	C	21.14	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=2.27 (Å)  - - S - I I V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t -----  a d k e L I F L V D D F S T M R R I V R N L L K E L G - F N N V E E E D V D A L N K I Q A G G Y G F V I S W N P N M D G L E L K T I R A D G A M S A L P L M V I I E A K K E N I I A A Q A G A S G W V V K P F T A A T l e e k l n k i f e k l g m</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=2.58 (Å)  s - - - - I I V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t ----- e n l a h h i r q v y g k t  - a d k e L I F L V D D F S T M R R I V R N L L K E L G - L G F N N V E E E D V D A L N K I Q A G G Y G F V I S W N P N M D G L E L K T I R A D G A M S A L P L M V I I E A K K E N I I A A Q A G A S G W V V K P F T A A T l e e k l n k i f e k l g m - - - - -</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=25.20% (31/123) simi=48.78% (60/123)  s - - - - I I V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t ----- t  - a d k e L I F L V D D F S T M R R I V R N L L K E L G - L G F N N V E E E D V D A L N K I Q A G G Y G F V I S W N P N M D G L E L K T I R A D G A M S A L P L M V I I E A K K E N I I A A Q A G A S G W V V K P F T A A T l e e k l n k i f e k l g m -</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.74 (Å)  - - S - I I V C I A D D N R E L V S L L D E Y I S S Q P D M E V I G T Y N G Q D C L O M L E E K R P D I L L L I I M P H L D G L A V L E R I R A G F E H Q P N V I M L T A F G Q E D V T K A V E L G A S Y F I L K P F D M E N l a h h i r q v y g k t -----  a d k e L I F L V D D F S T M R R I V R N L L K E L G - F N N V E E E D V D A L N K I Q A G G Y G F V I S W N P N M D G L E L K T I R A D G A M S A L P L M V I I E A K K E N I I A A Q A G A S G W V V K P F T A A T l e e k l n k i f e k l g m</p>
218	<p>1f0vA (124)</p> <p>1a5pA (124)</p>	C	98.39	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.31 (Å)  K E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V -----  K E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R A K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V -----</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.84 (Å)  k - E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V ----- v  - k E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R A K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V -----</p> <p><b>BLAST:</b> aliSize=122 (resi) iden=98.39% (122/124) simi=98.39% (122/124)  K E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V  K E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R A K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.52 (Å)  K E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V  K E T A A A K F E R Q H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R A K P V N T F V H E S L A D V Q A V C S Q K N V A C K N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N A A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V</p>

219	<p>1f0vA (124)</p> <hr/> <p>1a5qA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.26 (Å)  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.77 (Å)  k-ETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  -kETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.45 (Å)  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v</p>
220	<p>1f0vA (124)</p> <hr/> <p>1awzA (123)</p>	C	27.64	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=1.97 (Å)  KE-TAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS---QKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNpyvpvhfdasv-----  QdnSRYTHELTOHYDA-K-POGRDDRYCESIMRRRGLTS-PCKDINTFTHGNKRSIKAIENknGNPHR-----ENLRISKSSFOVITKLGSPWPQQRATAGFRNVVACENG-----lpvhldqsi frfp</p> <p><b>SARST:</b> aliSize=92 (resi) RMSD=10.72 (Å)  ket----AAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKN---VAC-----KNGOT-----NCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHF-----dasv  ---qdnsRYTHELTOHYDAKPOGR-DDRYCESIMRRRGL-----TSPCKDINTFTHGNKRSIKAIENknGNPHRENLRISKSSFOVITKLGSPWPQQRATAGFRNVVACENG--ENGLPVHLDqsi frfp----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=32.52% (40/123) simi=49.59% (61/123)  ketaaak-----FEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNpyVPVHFDA--v-----  -----qdnsrythELTOHYDAKPOGRDD-RYCESIMRRRGLTSP-CKDINTFTHGNKRSIKAIENknGN---NPHRENLRISKSSFOVITKLGSPWPQQRATAGFRNVVACENG--LPVHLDQSi frfp</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.75 (Å)  KE-TAAAKFEROHMDSST-saASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS---QKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--ASV  -QdnSRYTHELTOHYDAKPOGR--GRDDRYCESIMRRRGLTSP-CKDINTFTHGNKRSIKAIENknGNPHR-----ENLRISKSSFOVITKLGSPWPQQRATAGFRNVVACENGLPVHLDQSi frfp</p>
221	<p>1f0vA (124)</p> <hr/> <p>1b6vA (124)</p>	C	94.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.29 (Å)  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIVACEGKPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.77 (Å)  k-ETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  -kETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIVACEGKPYVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=118 (resi) iden=94.35% (117/124) simi=95.16% (118/124)  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIVACEGKPYVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.56 (Å)  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  KETAAAKFEROHMDSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIVACEGKPYVPVHFDA--v</p>

222	1f0vA (124)	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.38 (Å) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv----- KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.84 (Å) k-ETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v -kETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.66 (Å) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
	1c8wA (124)			<p>TM-align: aliSize=114 (resi) RMSD=0.97 (Å) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv----- KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.85 (Å) k-ETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v -kETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.56 (Å) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
224	1f0vA (124)	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.30 (Å) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv----- KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvafdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.84 (Å) k-ETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v -kETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVAFDASv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVAFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.48 (Å) KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVAFDASV</p>
	1c9xA (124)			

225	<p>1f0vA (124)</p> <p>1e21A (119)</p>	C	68.91	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=1.77 (Å)  ketaaakFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  -----AFROHMDSDS-SPSSsSYCNQMMRRRNMIOGRCKPVNTFVHEPLVDVQNVCFEKTCKNGGNCYKSNLSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasve</p> <p><b>SARST:</b> aliSize=116 (resi) RMSD=9.09 (Å)  ketaaakFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  -----AFROHMDSDS-SPSSsSYCNQMMRRRNMIOGRCKPVNTFVHEPLVDVQNVCFEKTCKNGGNCYKSNLSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASe--ve-</p> <p><b>BLAST:</b> aliSize=97 (resi) iden=69.75% (83/119) simi=81.51% (97/119)  ketaaakFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  -----AFROHMDSDS-SPSSsSYCNQMMRRRNMIOGRCKPVNTFVHEPLVDVQNVCFEKTCKNGGNCYKSNLSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASe--ve</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.21 (Å)  ketaaakFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  -----AFROHMDSDS-SPSSsSYCNQMMRRRNMIOGRCKPVNTFVHEPLVDVQNVCFEKTCKNGGNCYKSNLSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASe--ve</p>
226	<p>1f0vA (124)</p> <p>1eicA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.32 (Å)  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhadasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.81 (Å)  k-ETAAAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  -k-ETAAAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v-</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.56 (Å)  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v-</p>
227	<p>1f0vA (124)</p> <p>1eidA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.33 (Å)  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhgdasv</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=5.65 (Å)  k-ETAAAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  -k-ETAAAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v-</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.61 (Å)  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v  KETAaAKFEROHMDSSTsAAStSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASe--v-</p>

228	<p>1f0vA (124)</p> <hr/> <p>1eieA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.33 (Å)  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>Pyvpvhfdasv-----  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>Py-----vpvhwDasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.81 (Å)  k-<del>E</del>TAAAKFEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>PyVPVHFDAS-v  -k<del>E</del>TAAAKFEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>PyVPVHWDASv-</p> <p><b>BLAST:</b> aliSize=124 (resi) iden=99.19% (123/124) simi=100.00% (124/124)  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>PyVPVHFDASV  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>PyVPVHWDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.56 (Å)  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>PyVPVHFDASV  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKYPNCA<del>YK</del>TTQANKHIIVACE<del>GN</del>PyVPVHWDASV</p>
229	<p>1f0vA (124)</p> <hr/> <p>1gioA (125)</p>	C	33.06	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=2.17 (Å)  ke----TAAAK<del>E</del>ROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS---QKNVackngqTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyvpvhfdasv-----  --aqddYRYIH<del>LT</del>OH<del>Y</del>DA-K-PKGRNdEYCFNMKNRR<del>LT</del>-RPCKDRNTH<del>I</del>HGNKN<del>I</del>KA<del>I</del>CEdrnGOPYR-----GDLRI<del>S</del>KSEFOIT<del>I</del>CKHK<del>G</del>SSR<del>P</del>CR<del>Y</del>GATEDSRV<del>I</del>VGCENG-----lpvhfdesfitprh</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=6.94 (Å)  ketaaakferqhmdsst-----A<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>PyVPV-----hfdasv  -----aqddyryihfl<del>t</del>qhydakpKGRNDEYCFNMKNRR<del>LT</del>-RPCKDRNTH<del>I</del>HGNKN<del>I</del>KA<del>I</del>CEdrnGOPYR--DLRI<del>S</del>KSEFOIT<del>I</del>CKHK<del>G</del>SSR<del>P</del>CR<del>Y</del>GATEDSRV<del>I</del>VGCENG<del>ng</del>LPVHFDESfitprh-----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=35.48% (44/124) simi=48.39% (60/124)  ketaaak-----<del>E</del>ROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyVPVHFDAS-----v  -----aqddyryih<del>LT</del>OH<del>Y</del>DAKPKGRNDE-YCFNMKNRR<del>LT</del>-RPCKDRNTH<del>I</del>HGNKN<del>I</del>KA<del>I</del>CEdrnGOPYRDLRI--<del>S</del>KSEFOIT<del>I</del>CKHK<del>G</del>SSR<del>P</del>CR<del>Y</del>GATEDSRV<del>I</del>VGCENG--LPVHFDESfitprh-</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.95 (Å)  ke----TAAAK<del>E</del>ROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS---QKNVackngqTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyVPVHFDASV-----  --aqddyR-YIH<del>LT</del>OH<del>Y</del>DA-K-PKGRNdEYCFNMKNRR<del>LT</del>-RPCKDRNTH<del>I</del>HGNKN<del>I</del>KA<del>I</del>CEdrnGOPYR-----GDLRI<del>S</del>KSEFOIT<del>I</del>CKHK<del>G</del>SSR<del>P</del>CR<del>Y</del>GATEDSRV<del>I</del>VGCEN--GLPVHFD<del>e</del>SFI<del>t</del>prh</p>
230	<p>1f0vA (124)</p> <hr/> <p>1gv7A (123)</p>	C	41.46	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=2.01 (Å)  KETA<del>AAK</del>FEROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyvpvhfdasv-----  DNSRYTH<del>LT</del>OH<del>Y</del>DAKPOGR-DDRYCESIMRR<del>R</del>GLT-SPCKDINT<del>I</del>HGNKRSIKAI<del>I</del>CSQKNVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyvpvhfdasv-----lpvhdqsifr</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=5.97 (Å)  ket---AAAK<del>E</del>ROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV-----dasv  ---dnsRYTH<del>LT</del>OH<del>Y</del>DAKPOGR-DDRYCESIMRR<del>R</del>GLT-SPCKDINT<del>I</del>HGNKRSIKAI<del>I</del>CSQKNVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV-----CENGLPVHLDqsifr----</p> <p><b>BLAST:</b> aliSize=72 (resi) iden=42.62% (52/123) simi=59.02% (72/123)  ketaaak-----<del>E</del>ROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyVPVHFDASV--  -----dnsryth<del>LT</del>OH<del>Y</del>DAKPOGRDD-RYCESIMRR<del>R</del>GLTSP-CKDINT<del>I</del>HGNKRSIKAI<del>I</del>CSQKNVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyVPVHFDASV--LPVHLDQsifr</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.40 (Å)  ke---TAAAK<del>E</del>ROH<del>MD</del>SSTSA<del>AS</del>SSNYC<del>NQ</del>MMKSR<del>NL</del>TK<del>DR</del>CKP<del>VNT</del>FVHESLAD<del>VQ</del>AVCS<del>QK</del>NVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyVPVHFDASV-SV-  --pdn<del>S</del>RYTH<del>LT</del>OH<del>Y</del>DAKPOGR--GRDDRYCESIMRR<del>R</del>GLT-SPCKDINT<del>I</del>HGNKRSIKAI<del>I</del>CSQKNVACK<del>NG</del>OTNCY<del>Q</del>SYSTMSIT<del>DC</del>RET<del>G</del>SSKY<del>NCA</del>YKTTQANKHIIVACE<del>GN</del>pyVPVHFDASV-SV-</p>

231	1f0vA (124)	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.30 (Å)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.84 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV-v  -kETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAVv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.48 (Å)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p>
	lizpA (124)			
232	1f0vA (124)	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.32 (Å)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.83 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV-v  -kETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAVv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.52 (Å)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p>
	lizqA (124)			
233	1f0vA (124)	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.55 (Å)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=8.86 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV-v  -kETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAVv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.96 (Å)</p> <p>KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAAASSSNYNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCSYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p>
	lizrA (124)			

234	<p>1f0vA (124)</p> <p>1j80B (101)</p>	C	100.00	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=1.07 (Å)  ketaaakferqhmdsstsaasssNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----  -----NYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNP-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=9.76 (Å)  ketaaakferqhmdsstsaasssNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----v  -----NYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----v</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=100.00% (101/101) simi=100.00% (101/101)  ketaaakferqhmdsstsaasssNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV  -----NYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=0.71 (Å)  ketaaakferqhmdsstsaasssNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV  -----NYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV</p>
235	<p>1f0vA (124)</p> <p>1kh8A (125)</p>	C	97.58	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.19 (Å)  -KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----  m-KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNP-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.83 (Å)  k--ETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----v  -mk-ETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  -KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV  m-KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.73 (Å)  -KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV  m-KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNP-----GYVPVPHFDASV</p>
236	<p>1f0vA (124)</p> <p>1kvzA (107)</p>	C	23.36	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.74 (Å)  kETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----  -MQDWITKKKHLTD-T-WDV---DNDL-MPTSLFD---CKDKNTHIYSLPGPKALCRGVIFSA-----DVLNSSEFYLAENVKPRKPC---KYLKSSNRICIRCEHE-----lpvhfagvgicp</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.79 (Å)  keta---AAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----v  ----mqdWITKKKHLTD-T-WDV---DNDL-MPTSLFD---CKDKNTHIYSLPGPKALCRGVIFSA-----DVLNSSEFYLAENVKPRKPC---KYLKSSNRICIRCEHE-----lpvhfagvgicp</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=27.10% (29/107) simi=49.53% (53/107)  ketaa----AAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----dasv  ----mqdWITKKKHLTD-T-WDV---DNDL-MPTSLFD---CKDKNTHIYSLPGPKALCRGVIFSA-----DVLNSSEFYLAENVKPRKPC---KYLKSSNRICIRCEHE-----lpvhfagvgicp</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=1.91 (Å)  ket---AAKFERQHMDSSSTAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEGNPYPVPHFDASV-----  ----mqdWITKKKHLTD-T-WDV---DNDL-MPTSLFD---CKDKNTHIYSLPGPKALCRGVIFSA-----DVLNSSEFYLAENVKPRKPC---KYLKSSNRICIRCEHE-----lpvhfagvgicp</p>

237	1f0vA (124)	C	24.76	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.37 (Å)</p> <p>kETAAAKFERQHMDSSsAASsnYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQknvackngq---TNCYQSYSTMSITDCREIGSSkypnAYKTTQANKHIIVACEGNpyvpvhfdasv-----  -MQDWLTFQKKHITN-IRDV---DNDNLSTNLFH---CKDKNTFIYSRPEPKAICG-----iiaSKNVLITSEFYLSDCNVTISRP----KYKLLKSTNKFCVTCENQ-----apvhfvvgsc</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.84 (Å)</p> <p>keta---AAKFERQHMDSSsAASsnycnqMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQknvackngqTNCYQSYSTMSITDCREIGSSkypncaYKTTQANKHIIVACEGNpyVPVHFDAS---v  ---mqdWLTQKKHITN-IRDV-----CDNILSTNLFHCKDKNTFIYSRPEPKAICG-----KGIISKNVLITSEFYLSDCNVTIS--RPCK--YKLLKSTNK--FCVTCEVQAPVHFDASVgsc-</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=32.38% (34/105) simi=51.43% (54/105)</p> <p>ketaaak-----FERQHMDSSSTAASsnYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSkypncaYKTTQANKHIIVACEGNpyVPVHFDASV-----dasv  -----mqdwltQKKHITNTRDV-----CDNILSTNLFH---HCKDKNTFIYSRPEPKAICG-KGIISKNVLIT-----SEFYLSDCNVTIS--RP--KYKLLKSTNKFCVTCENQ--APVHFDASVgsc----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.68 (Å)</p> <p>keTA-AAKFERQHMDSSsAASsnYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCS-----qknvackngqTNCYQSYSTMSITDCREIGSSkypnAYKTTQANKHIIVACEGNpyVPVHFDASV--  --MQDWLTFQKKHITN-IRDV---DNDNLSTNLFH---CKDKNTFIYSRPEPKAICGgias-----KNVLITSEFYLSDCNVTISRP----KYKLLKSTNKFCVTCENQ--QAPVHFDASVgsc</p>
	1pu3A (105)			
238	1f0vA (124)	C	77.42	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=2.45 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSN-FCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyvpvhfdasv-----  -kESAAAKFERQHMDSGNS-PSSSNFCNLMCCCKMTQKCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQVEKHIIVACGGKPS-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.19 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV-v  -kESAAAKFERQHMDSGNS-PSSSNYCNLMCCCKMTQKCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=80.65% (100/124) simi=86.29% (107/124)</p> <p>KEETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV  KESAAAKFERQHMDSGNS-PSSSNYCNLMCCCKMTQKCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.90 (Å)</p> <p>ke-ETAAAKFERQHMDSSSTAASSN-FCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV  --keSAAAKFERQHMDSGNS-PSSSNYCNLMCCCKMTQKCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1qwqA (124)			
239	1f0vA (124)	C	100.00	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.29 (Å)</p> <p>kETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyvpvhfdasv-----  -ETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpy-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=8.85 (Å)</p> <p>ke-ETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV-v  --eETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=100.00% (123/123) simi=100.00% (123/123)</p> <p>KEETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV  -ETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.47 (Å)</p> <p>KEETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV  -ETAAAKFERQHMDSSSTAASSNFCNQMMSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNcyqsySTMSITDCREIGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDASV</p>
	1rasA (123)			



240	<p><b>1f0vA (124)</b></p> <hr/> <p><b>1rmfA (120)</b></p>	C	43.33	<p><b>TM-align: aliSize=112 (resi) RMSD=1.99 (Å)</b>  K-ETAAAKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----  MqDGMYQRFRLROHVHPPEE-TGGSDRYCNLMQRKMLYHCKRFNTHIEDIWNIRSI CSTTNIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPQ-----vpvhfdg</p> <p><b>SARST: aliSize=115 (resi) RMSD=6.88 (Å)</b>  ket---AAAKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  ---mqdGMYQRFRLROHVHPPEE-TGGSDRYCNLMQRKMLYHCKRFNTHIEDIWNIRSI CSTTNIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPQVPVHFDAg---</p> <p><b>BLAST: aliSize=78 (resi) iden=43.33% (52/120) simi=65.00% (78/120)</b>  ketaaa-----KFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  -----mqdGMYQRFRLROHVHPPEE-TGGSDRYCNLMQRKMLYHCKRFNTHIEDIWNIRSI CSTTNIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPQVPVHFDAg---</p> <p><b>Proposed: aliSize=117 (resi) RMSD=1.20 (Å)</b>  ke---TAAAKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  ---mqdGMYQRFRLROHVHPPEE-TGGSDRYCNLMQRKMLYHCKRFNTHIEDIWNIRSI CSTTNIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPQVPVHFDAg---</p>
241	<p><b>1f0vA (124)</b></p> <hr/> <p><b>1rraA (124)</b></p>	C	66.94	<p><b>TM-align: aliSize=115 (resi) RMSD=1.51 (Å)</b>  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----  AESSADKFKROHMDTEGPKSSPTYCNQMMKROGMTGSKCPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----vpvhfdasv</p> <p><b>SARST: aliSize=122 (resi) RMSD=8.84 (Å)</b>  k-ETAAAKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  -aESSADKFKROHMDTEGPKSSPTYCNQMMKROGMTGSKCPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv</p> <p><b>BLAST: aliSize=98 (resi) iden=66.94% (83/124) simi=79.03% (98/124)</b>  k-ETAAAKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  -aESSADKFKROHMDTEGPKSSPTYCNQMMKROGMTGSKCPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv</p> <p><b>Proposed: aliSize=124 (resi) RMSD=1.04 (Å)</b>  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  AESSADKFKROHMDTEGPKSSPTYCNQMMKROGMTGSKCPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv</p>
242	<p><b>1f0vA (124)</b></p> <hr/> <p><b>1ymnA (124)</b></p>	C	99.19	<p><b>TM-align: aliSize=115 (resi) RMSD=1.44 (Å)</b>  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYvpvhfdasv-----vpvhfdasv</p> <p><b>SARST: aliSize=122 (resi) RMSD=8.88 (Å)</b>  k-ETAAAKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  -kETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv</p> <p><b>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</b>  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv</p> <p><b>Proposed: aliSize=124 (resi) RMSD=0.74 (Å)</b>  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv  KETAALKFERQHMDSSSTsAASSSNYCNOQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDA-sv</p>

243	<p>1f0vA (124)</p> <p>lymrA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.31 (Å)  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYvpvhfdasv-----  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.86 (Å)  k-ETAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>-v  -kETAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>v-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del></p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.52 (Å)  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del></p>
244	<p>1f0vA (124)</p> <p>lymwa (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.33 (Å)  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYvpvhfdasv-----  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.85 (Å)  k-ETAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>-v  -kETAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>v-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del></p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.55 (Å)  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>  KETA<del>AAK</del>FEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTkDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del></p>
245	<p>1f0vA (124)</p> <p>lyv4A (104)</p>	C	26.92	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.44 (Å)  ketAAAK<del>F</del>EROHMDSSTSAASSsn<del>Y</del>CN<del>Q</del>MMKSRNLTkdr<del>C</del>KPVNTFVHESLADVOAVCSQkNvackngq--TNCYQSYSTMSITDCRE<del>T</del>GSSkypn<del>A</del>YKTTQANKHIIVACE<del>G</del>NPYvpvhfdasv-----  ---DWLTFQKKHIT-NT-<del>R</del>DV---D<del>D</del>NILSTNLFH---CKDKNTHIYSRPEPKAICKGIASKG-I-----iASKNVLITSEFYLSDCNVI<del>S</del>SRP---CKYKLLKSTNKFCVTCENQ-----apvhfvgvgsc</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=9.43 (Å)  keta-AAK<del>F</del>EROHMDSSTSAASSsn<del>Y</del>CN<del>Q</del>MMKSRNLTkdr<del>C</del>KPVNTFVHESLADVOAVCSQKNVACKngqtnCYQSYSTMSITDCRE<del>T</del>GSSkypn<del>A</del>YKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>----sv  ----dWLT<del>F</del>QKKHITN-<del>R</del>RDV-----CDN<del>I</del>LSTNLFHCKDKNTHIYSRPEPKAICKGIASKG-----NVLITSEFYLSDCNVI<del>S</del>SRPcKYKLLKSTNKFCVTCENQ<del>-</del>-ENQAPVHfVGVGsc--</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=33.01% (34/104) simi=52.43% (54/104)  ketaaak----<del>F</del>EROHMDSSTSAASSsn<del>Y</del>CN<del>Q</del>MMKSRNLTkdr<del>C</del>KPVNTFVHESLADVOAVCSQKNVACKNGOTNcyqsySTMSITDCRE<del>T</del>GSSkypn<del>A</del>YKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>-----dasv  -----dwl<del>t</del>FQKKHITNTRD<del>V</del>D-----CDN<del>I</del>LSTNLFH--HCKDKNTHIYSRPEPKAICKGIASKNVLIT-----SEFYLSDCNVI<del>S</del>SRP--<del>F</del>-CKYKLLKSTNKFCVTCENQ<del>-</del>-APVHfVGVGsc----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.78 (Å)  keTAAAK<del>F</del>EROHMDSSTSAASSsn<del>Y</del>CN<del>Q</del>MMKSRNLTkdr<del>C</del>KPVNTFVHESLADVOAVCS-----qknvackngqtnCYQSYSTMSITDCRE<del>T</del>GSSkypn<del>A</del>YKTTQANKHIIVACE<del>G</del>NPYPVPVHFDA<del>S</del>V--  --PDWLT<del>F</del>QKKHIT-NT-<del>R</del>DV---D<del>D</del>NILSTNLFH--CKDKNTHIYSRPEPKAICKGIASKG-----KNVLITSEFYLSDCNVI<del>S</del>SRP---CKYKLLKSTNKFCVTCENQ<del>-</del>-QAPVHfVGVGsc--</p>

246	<p>1f0vA (124)</p> <hr/> <p>2aasA (124)</p>	C	100.00	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.49 (Å)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.86 (Å)  k-ETAAAKFERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----v  -kETAAAKFERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----v</p> <p><b>BLAST:</b> aliSize=124 (resi) iden=100.00% (124/124) simi=100.00% (124/124)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.13 (Å)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----</p>
247	<p>1f0vA (124)</p> <hr/> <p>2e0jA (128)</p>	C	70.16	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.65 (Å)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----vpvhfdasvedst</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.84 (Å)  k-ETAAAKFERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----v  -kESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----vedst</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=70.16% (87/124) simi=81.45% (101/124)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----edst</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.13 (Å)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----edst</p>
248	<p>1f0vA (124)</p> <hr/> <p>2e0lA (128)</p>	C	69.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.47 (Å)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----vpvhfdasvedst</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=8.87 (Å)  ke--TAAAKFERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----v  --keSR<del>A</del>K<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----vedst</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=69.35% (86/124) simi=80.65% (100/124)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----edst</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.86 (Å)  KETA<del>AAK</del>FERQHMDSS TSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLTKDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCA<del>Y</del>KTQANKHIIVACE<del>GN</del>PYPVPHFDASV-----  KESRAK<del>K</del>FERQHMDSS SPSS-SS<del>T</del>YCN<del>Q</del>MLLRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKNS<del>S</del>SMHITDCRLNGSRYPNCA<del>Y</del>RTSPKERHIIVACE<del>GN</del>PYPVPHFDASV-----edst</p>

249	<p>1f0vA (124)</p> <hr/> <p>2e0mA (128)</p>	C	69.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.47 (Å)  KETAIAKFEROHMDSSTAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KESRAKFKFOROHMDSDSPPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasvedst</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=8.87 (Å)  ke--TAAKFEROHMDSSTAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-----v  --keSRKFKFOROHMDSDSPPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASvedst-</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=69.35% (86/124) simi=80.65% (100/124)  KETAIAKFEROHMDSSTAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  KESRAKFKFOROHMDSDSPPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVedst</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.85 (Å)  KETAIAKFEROHMDSSTAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  KESRAKFKFOROHMDSDSPPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVedst</p>
250	<p>1f0vA (124)</p> <hr/> <p>2e0oA (126)</p>	C	68.55	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.52 (Å)  KETAIAKFEROHMDSSTsAAASS-SNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KESRAKFKFOROHMDSDS-SPSSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasved</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.81 (Å)  k--TAAKFEROHMDSSTsAAASS-SNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS----v  -kSRKFKFOROHMDSDS-SPSSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASved-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=69.35% (86/124) simi=81.45% (101/124)  KETAIAKFEROHMDSSTsAAASS-SNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV--  KESRAKFKFOROHMDSDS-SPSSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVed</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.92 (Å)  KETAIAKFEROHMDSSTsAAASS-SNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV--  KESRAKFKFOROHMDSDS-SPSSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVed</p>
251	<p>1f0vA (124)</p> <hr/> <p>2e0oB (125)</p>	C	69.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.61 (Å)  -KETAIAKFEROHMDSSTsAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  mKESRAKFKFOROHMDSDSPPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.85 (Å)  k--TAAKFEROHMDSSTsAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS--v  -mkSRKFKFOROHMDSDSPPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=69.35% (86/124) simi=81.45% (101/124)  -KETAIAKFEROHMDSSTsAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  mKESRAKFKFOROHMDSDSPPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.01 (Å)  -KETAIAKFEROHMDSSTsAAASSNYCNQMMKSRNLTDRCKPVNTFVHESLADVOAVCSOKNACKNGQTNCYQSYSTMSITDCRELGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  mKESRAKFKFOROHMDSDSPPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLVQLVQLQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASV</p>

252	<p>1f0vA (124)</p> <hr/> <p>2hkyA (129)</p>	C	41.13	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=2.46 (Å)  --K--EIAAAKFERQHMDSSsTsAAsssnYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNp-----Yvpvhfdasv-----  mkPkgMSSQWFKIQHMOPSP--Q----ACNSAMK--NINKhtKRCKDLNTEFLHEPFSSAATQTPKIAC-KNgDKNCHOSHGPVSLTMCKLI-SGKYPNCRKYEKRONKSYVVACKPP-qkkdsqqfH-----lvpvhldrvi</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=4.51 (Å)  keta-----AAKFERQHMDSSsTsAAsssnYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCRE---TGs skyPNCAYKTTQANKHIIIVACEGNPY-----vvpvhfdasv  ---mkpkgmtSSQWFKIQHMOPSPQAC-NSAMKNINHTK---RCKDLNTEFLHEPFSSAATQTPKIACKNGDKNCHOSHGPVSLTMCKLIsgKY---PNCRYKYEKRONKSYV--VACKPPqkkdsqqfHlvpvhldrvi-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=43.55% (54/124) simi=57.26% (71/124)  ke-----TAAAKFERQHMDSSsTsAAsssnYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACE-----EGNPY--VPVHF---asv  ---mkpkgmtSSQWFKIQHMOPSPQAC-NSAMKNINHTK---RCKDLNTEFLHEPFSSAATQTPKIACKNGDKNCHOSHGPVSLTMCKLI-SGKYPNCRKYEKRONKSYVVACKppqkkDSQOFhIvPVHLrvi---</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.80 (Å)  --K--EIAAAKFERQHMDSS--tsaasssnYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGN-----P-YVPVHF-DASV  mkPkgMSSQWFKIQHMOPSPq-----ACNSAMK--NINKhtKRCKDLNTEFLHEPFSSAATQTPKIAC-KNgDKNCHOSHGPVSLTMCKLI-SGKYPNCRKYEKRONKSYVVACKPPqkkdsqqfHlVPVHLDRVL</p>
253	<p>1f0vA (124)</p> <hr/> <p>2i5sX (104)</p>	C	27.88	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.38 (Å)  ketAAAKFERQHMDSSsTsAAsssnYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNpyvpvhfdasv-----  ---DWLTFQKKHIT-NT-RDV---DNDNIMSTNLFH---CKDKNTHIYSRPEPKAICKGIASK-----NVLITSEFYLSDCNVTIS--RPC--KYLKSTNKFCVTCENQ-----apvhfvgvgsc</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.62 (Å)  keta-AAKFERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNPYVPVHF-DAS---v  ---dwlTFQKKHIT-NT-RDV---DNDNIMSTNLFH---CKDKNTHIYSRPEPKAICKGIASK-----NVLITSEFYLSDCNVTIS--RPC--KYLKSTNKFCVTCENQ--ENQAPVHFVGVGsc-</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=33.98% (35/104) simi=52.43% (54/104)  ketaaak----FERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNpyVPVHF-----dasv  -----dwlTFQKKHIT-NT-RDV---DNDNIMSTNLFH---CKDKNTHIYSRPEPKAICKGIASK-----NVLITSEFYLSDCNVTIS--RPC--KYLKSTNKFCVTCENQ--APVHFVGVGsc----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.75 (Å)  keTAAAKFERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCS-----qknvackngqtNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNpyVPVHF-DASV--  --PDWLTQKKHIT-NT-RDV---DNDNIMSTNLFH---CKDKNTHIYSRPEPKAICKGIASK-----NVLITSEFYLSDCNVTIS--RPC--KYLKSTNKFCVTCENQ--QAPVHFVGVGsc</p>
254	<p>1f0vA (124)</p> <hr/> <p>2k11A (127)</p>	C	69.35	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.95 (Å)  KETAAAKFERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNpyvpvhfdasv-----  KESRAKFKFQROHMDSDSSPSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGCGCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIIVACEGSP-----yvpvhfdasveds</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=8.10 (Å)  k-ETAAAKFERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNPYVPVHFDA-----sv  -kESRAKFKFQROHMDSDSSPSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGCGCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIIVACEGSPYVPVHFDAsveds--</p> <p><b>BLAST:</b> aliSize=102 (resi) iden=70.16% (87/124) simi=82.26% (102/124)  KETAAAKFERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNPYVPVHF-DASV---  KESRAKFKFQROHMDSDSSPSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGCGCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIIVACEGSPYVPVHF-DASVeds</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=1.56 (Å)  k-ETAAAKFERQHMDSSsTsAASSSNYCNQMMKSRNLTKD--DRCKPVNTFVHESLADVQAVCSQKNVACKNG-QTNCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIIVACEGNPYVPVHF-DASV---  -kESRAKFKFQROHMDSDSSPSSSTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGCGCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIIVACEGSPYVPVHF-DASVeds</p>

255	<p>1f0vA (124)</p> <hr/> <p>2nuiA (124)</p>	C	<p>99.19</p> <p><b>TM-align:</b> aliSize=114 (resi) RMSD=0.95 (Å)  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>Pyvpvhf<del>dasv</del>-----  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>Pyvpvhf<del>dasv</del>-----yvpvhf<del>dasv</del></p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.86 (Å)  k-<del>E</del>TAAAKFEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDAS<del>-v</del>  -k<del>E</del>TAAAKFEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDAS<del>v-</del></p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.52 (Å)  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV</p>
256	<p>1f0vA (124)</p> <hr/> <p>2op2A (124)</p>	C	<p>98.39</p> <p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.40 (Å)  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>Pyvpvhf<del>dasv</del>-----  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>Pyvpvhf<del>dasv</del>-----vpvhf<del>dasv</del></p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.79 (Å)  k-<del>E</del>TAAAKFEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDAS<del>-v</del>  -k<del>E</del>TAAAKFEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDAS<del>v-</del></p> <p><b>BLAST:</b> aliSize=122 (resi) iden=98.39% (122/124) simi=98.39% (122/124)  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.65 (Å)  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV  KETA<del>AAAK</del>FEROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV</p>
257	<p>1f0vA (124)</p> <hr/> <p>2p6zB (109)</p>	C	<p>26.61</p> <p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.27 (Å)  keTAAAK<del>F</del>EROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TgSSkypncAYKTTQANKHIIVACE<del>GN</del>Pyvpvhf<del>dasv</del>-----  --REWE<del>K</del>FKTKHIT<del>-</del>QS<del>V</del>-AD<del>-</del>FN<del>-</del>CNRT<del>ND</del>paY<del>T</del>pdGQ<del>---</del>CKP<del>I</del>NTH<del>I</del>EST<del>T</del>GP<del>KEI</del>RR<del>-</del>A<del>-----</del>tgRVN<del>K</del>SS<del>T</del>QOFTL<del>IT</del>CKNP<del>-</del>IR<del>----</del>KS<del>Q</del>SNTT<del>NF</del>CIT<del>CRD</del>N<del>-----</del>ypvhf<del>v</del>ktg<del>k</del>c</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=9.42 (Å)  ket-AAAK<del>F</del>EROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>TGSSKypncAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDAS<del>----</del>sv  ---rWE<del>K</del>FKTKHIT<del>-</del>QS<del>V</del>-----AD<del>F</del>NCNRT<del>ND</del>paY<del>T</del>pdGQ<del>---</del>CKP<del>I</del>NTH<del>I</del>EST<del>T</del>GP<del>KEI</del>RRATGRV<del>-----</del>NK<del>S</del>STQOFTL<del>IT</del>CKNP<del>IR</del>C<del>-----</del>KS<del>Q</del>SNTT<del>NF</del>CIT<del>CRD</del>N<del>-----</del>Y<del>VP</del>VH<del>V</del>Kt<del>g</del>k<del>c</del>---</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=33.94% (37/109) simi=50.46% (55/109)  ketaaa<del>----</del>k<del>F</del>EROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITD<del>CRE</del>tgsskypncAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDAS<del>-----</del>dasv  -----rewe<del>K</del>FKTKHIT<del>-</del>QS<del>V</del>AD<del>F</del>NCNRT<del>ND</del>paY<del>T</del>pdGQ<del>---</del>CKP<del>I</del>NTH<del>I</del>EST<del>T</del>GP<del>KEI</del>RRATGRV<del>-----</del>AT<del>GR</del>VN<del>K</del>SS<del>T</del>QOFTL<del>IT</del>CKNP<del>IR</del>C<del>-----</del>KS<del>Q</del>SNTT<del>NF</del>CIT<del>CRD</del>N<del>-----</del>Y<del>VP</del>VH<del>V</del>Kt<del>g</del>k<del>c</del>----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.63 (Å)  keTAAAK<del>F</del>EROH<del>MD</del>SSTSA<del>ASS</del>SNYC<del>NQ</del>MMKSRNLTKDR<del>CK</del>PVNTFVHESLADVOAVCS<del>-----</del>qknvackngotncYQSYSTMSITD<del>CRE</del>TgSSkypncAYKTTQANKHIIVACE<del>GN</del>PyVPVHFDASV<del>--</del>  --REWE<del>K</del>FKTKHIT<del>-</del>QS<del>V</del>AD<del>F</del>NCNRT<del>ND</del>paY<del>T</del>pdGQ<del>---</del>CKP<del>I</del>NTH<del>I</del>EST<del>T</del>GP<del>KEI</del>RRatgr<del>-----</del>VN<del>K</del>SS<del>T</del>QOFTL<del>IT</del>CKNP<del>IR</del>C<del>-----</del>KS<del>Q</del>SNTT<del>NF</del>CIT<del>CRD</del>N<del>-----</del>Y<del>VP</del>VH<del>V</del>Kt<del>g</del>k<del>c</del>----</p>

258	1f0vA (124)	C	69.35	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.43 (Å)</p> <p>kETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  -ESRAKRFQROHMDSSTSPSSSTYCQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFDEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasveds</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=9.00 (Å)</p> <p>ketaa---AKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS----v  -----esrakRFQROHMDSSTSPSSSTYCQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFDEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASveds-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=69.35% (86/124) simi=81.45% (101/124)</p> <p>kETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV---  -ESRAKRFQROHMDSSTSPSSSTYCQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFDEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVeds</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.81 (Å)</p> <p>kETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV---  -ESRAKRFQROHMDSSTSPSSSTYCQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFDEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVeds</p>
	2q4gX (126)			
259	1f0vA (124)	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.30 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.85 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v  -kETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.49 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
	3dh6A (124)			
260	1f0vA (124)	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.31 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.84 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v  -kETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.50 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
	3di7A (124)			







267	<p>1f0vA (124)</p> <hr/> <p>3rspA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.31 (Å)  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-----  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-----vpvhfdasv-----</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.84 (Å)  k-ETAAAKFERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-v  -k-ETAAAKFERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.58 (Å)  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV</p>
268	<p>1f0vA (124)</p> <hr/> <p>4rsdA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.34 (Å)  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-----  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-----vpvhfaasv-----</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.84 (Å)  k-ETAAAKFERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-v  -k-ETAAAKFERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV-v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.59 (Å)  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV  KETA<del>AAK</del>FERQHMDSSSTAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE<del>GN</del>PNYPVPHFDASV</p>
269	<p>1f98A (125)</p> <hr/> <p>1s67L (119)</p>	N	13.45	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=2.25 (Å)  mehvafgsedientl----AKMDDgQ-LDGLAFGAIQLDGDGNILQYNAEGDIVERDPKQVIGKNFFKdVAPC--TDSPEFYGKFKEGVAS--N-LNTMFEYTFDY-OMTPKVKVHMKKALS--GDSWVFKRV-  -----naadGIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNREGgkaRvEGMSRELQLEKKdGSKIWTRFALSksVAegKVYLALVRDAs</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=5.97 (Å)  mehvafgsedient-LAKMDDG-QLDGLAFGAIQLDGDGNILQYNAEGDIVERDPKQVIGKNFFKdVAPCTdsPEFYGKFKEGVAS----GNLNTMFEYTF-----DYQMTPTKVKVHMKKALSgDSWVFKRV--v  -----nADGIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNIDMLIPrdLRPA-HPEYIRHNREGgkaRvEGMSRELQLEKKdGSKIWTRFALSksVAegKVYLALVRDAs</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=12.61% (15/119) simi=24.37% (29/119)  mehvafgsedientlakmddgqldglaf-----GAIQLDGDGNILQYNAEGDIVERDPKQVIGKNFFKdVAPC--TDSPEFYGKFKEGVAS--N-LNTMFEYTFDYOM--TPKVKVHMKKALS--GDSWVFKRV--  -----naadgiffpaleqnmmgavlinendevmffnpaeklwkykreevignnidmliprdlrpa--hpeyirhnreggkarvegmsrelqlekkdgskiwtrfalsksvaegkvyylalvrdas-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.10 (Å)  mehvafgsED-IEntLA-KMddgqldglafGAIQLDGDGNILQYNAEGDIVERDPKQVIGKNFFKdVAPC--TDSPEFYGKFKEGVAS--N-LNTMFEYTFDYOM--TPKVKVHMKKALS--GDSWVFKRV--  -----NAaDG--IFfpa----LEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNREGgkaRvEGMSRELQLEKKdGSKIWTRFALSksVAegKVYLALVRDAs</p>

270	<p>1f98A (125)</p> <hr/> <p>1s67U (115)</p>	N	13.91	<p><b>TM-align:</b> aliSize=106 (resi) RMSD=2.30 (Å)  mehvafgsedientlAKMddGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVASLN-LNT--MFYTFDY-QMTPKVKVHMKKALS--GDSWVFKRV-  -----GIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNID--MLIPrdLRPA-HPEYIRHNREGKArVEgmSRLEKkDgSKIWTRFALSIVSAegKVYLLALVRDAs</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=3.50 (Å)  mehvafgsedientlakmd---DGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFKDVAPCTdsPEFYGKFKEGVAS--GNLN-----TMFEYTFDYQmTPTKVKVHMKKALS--GDSWVFKRV--v  -----giffPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNIDMLIPrdLR--RPAHPEYIRHNREGKARvegmsRELQLEKKDG-SKIWTRFALSIVSAEGKvyLLALVRDas-</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=13.04% (15/115) simi=25.22% (29/115)  mehvafgsedientlakmddgldglaf-----GAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFF----KDVAFCTdsPEFYGKFKEG-----vasgnlntmfeytfdyqmtptkvkvhmkkalsgdsywfvkrv  -----giffpaleqnmngavlinendevmffnPAEKLWGYKREEVICNNIDmliprdLRPA--HPEYIRHNREGkArvegmsrelqlekkdgskiwtrfalskvsaeqkvyllalvrda-----</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=2.23 (Å)  mEhVafgsedientLakMddGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFkdVAPC-TDSPeFYGKFKEGVASLN-LNT--MFYTFDYQm-TPTKVKVHMKKALS--GDSWVFKRV--  --G-I-----F--F--PALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNID-MLIPrdLRPA-HPEYIRHNREGKArVEgmSRLEKkDgSKIWTRFALSIVSAegKVYLLALVRDAs</p>
271	<p>1f98A (125)</p> <hr/> <p>1v9zA (113)</p>	N	14.16	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=2.26 (Å)  mehvafgsedientlAKMddGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVASLN-LNT--MFYTFDY-QMTPKVKVHMKKALS--GDSWVFKRV  -----GIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNID--MLIPrdLRPA-HPEYIRHNREGKArVEgmSRLEKkDgSKIWTRFALSIVSAegKVYLLALVRD-</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=3.01 (Å)  mehvafgsedientlakmd---DGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFKDVAPCTdsPEFYGKFKEGVASNLNTM---FEYTFDY-QMTPKVKVHMKKALS--GDSWVFKRV---rv  -----giffPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNIDMLIPrdLR--RPAHPEYIRHNREGKARvegmsRELQLEKKDGSKIWTRFALSIVSAEGKvyLLALVRd--</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=13.27% (15/113) simi=25.66% (29/113)  mehvafgsedientlakmddgldglaf-----GAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFF----KDVAFCTdsPEFYGKFKEG-----vasgnlntmfeytfdyqmtptkvkvhmkkalsgdsywfvkrv  -----giffpaleqnmngavlinendevmffnPAEKLWGYKREEVICNNIDmliprdLRPA--HPEYIRHNREGkArvegmsrelqlekkdgskiwtrfalskvsaeqkvyllalvrda-----</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=2.00 (Å)  mehvafgsEDIENTlakmddgldGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFkdVAPC-TDSPeFYGKFKEGVASLN--LNT-MFYTFDYQm-TPTKVKVHMKKALS--GDSWVFKRV-v  -----GIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNID-MLIPrdLRPA-HPEYIRHNREGKArVEgmSRLEKkDgSKIWTRFALSIVSAegKVYLLALVRDh-</p>
272	<p>1f98A (125)</p> <hr/> <p>1vb6A (114)</p>	N	14.04	<p><b>TM-align:</b> aliSize=106 (resi) RMSD=2.29 (Å)  mehvafgsedientlAKMddGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVASLN-LNT--MFYTFDY-QMTPKVKVHMKKALS--GDSWVFKRV  -----GIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNID--MLIPrdLRPA-HPEYIRHNREGKArVEgmSRLEKkDgSKIWTRFALSIVSAegKVYLLALVRDAs</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=3.53 (Å)  mehvafgsedientlakmd---DGQLDGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFKDVAPCTdsPEFYGKFKEGVASNLN-----TMFEYTFDYQmTPTKVKVHMKKALS--GDSWVFKRV----rv  -----giffPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNIDMLIPrdLR--RPAHPEYIRHNREGKARvegmsRELQLEKKDG-SKIWTRFALSIVSAEGKvyLLALVRda--</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=13.16% (15/114) simi=25.44% (29/114)  mehvafgsedientlakmddgldglaf-----GAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFF----KDVAFCTdsPEFYGKFKEG-----vasgnlntmfeytfdyqmtptkvkvhmkkalsgdsywfvkrv  -----giffpaleqnmngavlinendevmffnPAEKLWGYKREEVICNNIDmliprdLRPA--HPEYIRHNREGkArvegmsrelqlekkdgskiwtrfalskvsaeqkvyllalvrda-----</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=2.04 (Å)  mehvafgsEDIENTlakmddgldGLAFGAIQLDGDGNILQYNAEGDIVGRDPKQVIGKNFFkdVAPC-TDSPeFYGKFKEGVASLN-LNT--MFYTFDYQm-TPTKVKVHMKKALS--GDSWVFKRV--  -----GIFFPALAEQNMMGAVLINENDEVMFFNPAEKLWGYKREEVICNNID-MLIPrdLRPA-HPEYIRHNREGKArVEgmSRLEKkDgSKIWTRFALSIVSAegKVYLLALVRDAh-</p>

273	<p><b>lfyrA</b> (95)</p> <p><b>lju5A</b> (109)</p>	C	26.32	<p><b>TM-align:</b> aliSize=64 (resi) RMSD=1.92 (Å)  hPwFFKIPRAKAEEMLSKDRhdGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRD-----GAGKYFLWVVKfnsInelvdyhrstsvsrnqqiflrdie-----  -SWYWRLSRQEAVALLOGDR-HGVFLVRDSSTSPGDYVLSVSENSRSHYIINSSgprppvppspaqqppgvSPSRLRIGDQ-----efdslpallefykihyldtttiepvsr</p> <p><b>SARST:</b> aliSize=73 (resi) RMSD=8.83 (Å)  hpwffg----KIPRAKAEEMLSKDRhdGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGA-----KYFLWVV----KFNLSLNEVDYHRS-----tsvsrnqqiflrdie  -----swywgRLSRQEAVALLOGDR-HGVFLVRDSSTSPGDYVLSVSENSRSHYIINSSGPrppvppspaqqppVSPSRLRIGDQEDSLPALLEFYKIhyldtttiepvsr-----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=23.16% (22/95) simi=37.89% (36/95)  hp- VFFKIPRAKAEEMLSKDRhdGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRD-----agkyfLwvKfnsInelvdyhrstsvsrnqqiflrdie  --sWYWRLSRQEAVALLOGDR-HGVFLVRDSSTSPGDYVLSVSENSRSHYIINSSGPrppvppspaqqppgvsprrlrigdqefdslpallefykihyldtttiepvsr-----</p> <p><b>Proposed:</b> aliSize=89 (resi) RMSD=1.64 (Å)  hPwFFKIPRAKAEEMLSKDRhdGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLR-----dGAGKYFLWVVKFNSLNEVDYHRSTSVSrnQQiFLRDI--E  -SWYWRLSRQEAVALLOGDR-HGVFLVRDSSTSPGDYVLSVSENSRSHYIINSSgprppvppspaqqppgv-SPSRLRIGDQEDSLPALLEFYKIHYLD--TT-TIIEPvsR</p>
274	<p><b>lgq9A</b> (241)</p> <p><b>lqwjA</b> (228)</p>	M	17.54	<p><b>TM-align:</b> aliSize=199 (resi) RMSD=2.70 (Å)  -SKAVIVIPARYSSRLFGPLLDIVKEMOHYERALOVAGVAEVAATDPRVEOAVOAFGGKAIMTRNDH---ESGTRLVVMHKV-EADYILOGDEPMIRRVIVETLLOGMRDDPaLPVATLCHAI SAAeAe-Pstvkvvvntrqdalysrsp-----IPYPR--NAE---KA  pPHLAALVLAGGSKGITLNIKRLAGVPLGWLRAALDAGVFQSVVSTHDEIENVAKQFGAQVHRRSSEtskdsSTSLDAIVFLNYHnVVDIVGNIQATSClHFTLQKVAEMIREEG-YDSVFSVVRRHQF-RW-se-----iqkgvrevtePLNLNpaKRPrqdWD</p> <p><b>SARST:</b> aliSize=184 (resi) RMSD=8.10 (Å)  s--KAVIVIPARYSSRLFGPLLDIVKEMOHYERALOVAGVAEVAATDPRVEOAVOAFGGKAIMTR--NDHE--SGTRLVVMHKV-EADYILOGDEPMIRRVIVETLLOGMRDDPaLPVATLCHAI saacaaepsTVKVVNTRODALyfsSPIPYPRN-----AEKARYLKHV--G  --ppHLAALVLAGGSKGITLNIKRLAGVPLGWLRAALDAGVFQSVVSTHDEIENVAKQFGAQVHRRSseTSKDsSTSLDAIVFLNYHnVVDIVGNIQATSClHFTLQKVAEMIRE-EGYDSVFSVVRRHQF-RW-se-----HQFRWSEIQKGV-----REVTEPLNLNpaKRPrQDWDQELYEngS</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=17.11% (39/228) simi=28.07% (64/228)  sk---AVIVIPARYSSRLFGPLLDIVKEMOHYERALOVAGVAEVAATDPRVEOAVOAFGG---KAIMRNDHESGTRLVVMHKVHADYILOGDEPMIRRVIVETLLOGMRDD-----  --pphLAALVLAGGSKGITLNIKRLAGVPLGWLRAALDAGVFQSVVSTHDEIENVAKQFGAQVHRRSSEtskdsSTSLDAIVFLNYHnVVDIVGNIQATSClHFTLQKVAEMIREEgydsVFSVVRRHQFRWSEIQKGVrevteplnlpaKRPrqdWdeelyengsfyafakrhliem</p> <p><b>Proposed:</b> aliSize=201 (resi) RMSD=2.30 (Å)  -SKAVIVIPARYSSRLFGPLLDIVKEMOHYERALOVAGVAEVAATDPRVEOAVOAFGGKAIMTRNDH---ESGTRLVVMHKV-EADYILOGDEPMIRRVIVETLLOGMRDDPaLPVATLCHAI SAAeaaepsTVK-----vntRODALYFSRSPIPYP-----rnaeKARYLKHV  pPHLAALVLAGGSKGITLNIKRLAGVPLGWLRAALDAGVFQSVVSTHDEIENVAKQFGAQVHRRSSEtskdsSTSLDAIVFLNYHnVVDIVGNIQATSClHFTLQKVAEMIREEG-YDSVFSVVRRHQF-----RWSeiqkg---VREV-TEPLNLNpaKRPrqd---WDGEIYEN</p>
275	<p><b>lh8xA</b> (125)</p> <p><b>lawzA</b> (123)</p>	N	33.33	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.12 (Å)  kesaaakferqhmdsgns-----PSSSTYCNQMMRRRNMtQgRCKPVNTFVHEPLVDVQNVCF--QEKVTckngqG-CYKSNSSMHIIDRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA-SV--E  -----qdnsrythfl tqhydakpQGR-DDRYCESIMRRRGLTS-PCKDINTHIFGNKRSIKAIEknkGNPHR-----ENLRI SKSSFQVITCKLHGGSPPWPPQYRATAGFRNvvVACEN--GLPVHLDQsIFrrP</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=5.21 (Å)  kesaaakferqhmdsgnspsss-----TYCNQMMRRRNMtQgRCKPVNTFVHEPLVDVQNVCFqekvTCKNGQGN---CYKSNSSMHIIDRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA-SV-----e  -----qdnsrythfl tqhydakpQGRDDRYCESIMRRRGLTS-PCKDINTHIFGNKRSIKAIE-----ENKNGNPHrenLRI SKSSFQVITCKLHGGSPPWPPQYRATAGFRNvvVACEN-----GLPVHLDQsIFrrP</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=36.59% (45/123) simi=53.66% (66/123)  kesaaak-----ERQIMTSGnSPSS-SSTYCNQMMRRRNMtQgRCKPVNTFVHEplvDVQNVcfqevTCKNGQGNCYKSN-----SSMHIIDRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA-SV-----e  -----qdnsrythfl tqhydakpQGRDDRYCESIMRRRGLTS-PCKDINTHIFGNKRSIKAIE-----ENKNGNPHrenLRI SKSSFQVITCKLHGGSPPWPPQYRATAGFRNvvVACEN--LPVHLDQsIFrrP</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.65 (Å)  kE--SAAAKERQIMTSGN-SPSSSTYCNQMMRRRNMtQgRCKPVNTFVHEPLVDVQNVCF--QEKVTckngqG-CYKSNSSMHIIDRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA-S----ve  -QdnSRyThELTqHydAKPqGRD--DRYCESIMRRRGLTS-PCKDINTHIFGNKRSIKAIEknkGNPHR-----ENLRI SKSSFQVITCKLHGGSPPWPPQYRATAGFRNvvVACEN--GLPVHLDQsIFrrP--</p>

276	<p><b>1h8xA</b> (125)</p> <p><b>1e21A</b> (119)</p>	N	94.12	<p><b>TM-align:</b> aliSize=106 (resi) RMSD=0.84 (Å) kesaaakferqhmdsgns-----PSSsSYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE--- -----afqrqhmdsdspsSSS-SYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE---</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=9.42 (Å) kesaaak-ERQHMDSGNSPSSSYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE---e -----aERQHMDSDSPSSSYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE---e</p> <p><b>BLAST:</b> aliSize=116 (resi) iden=95.80% (114/119) simi=97.48% (116/119) kesaaak-ERQHMDSGNSPSSSYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE---e -----aERQHMDSDSPSSSYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE---</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=0.78 (Å) kesaaakERQHMDSGNSPS--SSSYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE--- -----AERQHMDSDSPSSs--SYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVPVHFDA-SVE---</p>
277	<p><b>1h8xA</b> (125)</p> <p><b>1gioA</b> (125)</p>	N	30.40	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.14 (Å) kesaaakferqhmdsgns-----PSsSSTYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHFDA-SVE--- -----aqddyryihfl tqhydakpkGR-NDEYCFNMKNRRLTR-PCKDRNTFIHGKNKIKAIEdrnGOPYRG-----DLRISKSEFOITIKHKGGSSRPQRYGATEDSRVIVGCEN--GLPVHDEsFITprh</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=2.61 (Å) kesaaakferqhmdsgnspss-----SSTYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---FQEKVTCKngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGSPYVP-----vhfdasve -----aqddyryihfl tqhydakpkgrNDEYCFNMKNRRLTR-PCKDRNTFIHGKNKIKAIEdrnGOPYRG-----LRIKSEFOITIKHKGGSSRPQRYGATEDSRVIVGCENGLPVHdesfitprh-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=36.00% (45/125) simi=48.80% (61/125) kesaaak-----ERQHMDSGNSPSS-SSTYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFqKvtckngq---NCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHFDA-SVE--- -----aqddyryihfl tqhyDA--KPKGRNDEYCFNMKNRRLTR-PCKDRNTFIHGKNKIKAIEd---RNQOPYRDLRISKSEFOITIKHKGGSSRPQRYGATEDSRVIVGCEN--LPVHDEsfitprh--</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.90 (Å) k---ESAAAKERQHMDSGNSPSSsS-SYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVT-ckngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHFDA-SVE--- -aqdYRYIHfl tqhyDA--KPKGR--NdeYCFNMKNRRLTR-PCKDRNTFIHGKNKIKAIEdrnGOPYRG-----DLRISKSEFOITIKHKGGSSRPQRYGATEDSRVIVGCEN--GLPVHDEsFITprh</p>
278	<p><b>1h8xA</b> (125)</p> <p><b>1k58A</b> (123)</p>	N	32.52	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.16 (Å) kesaaakferqhmdsgns-----PSsSSTYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHFDA-SVE--- -----dnsrythfl tqhydakpGR-DDRYCESIMRRRGLTS-PCKDINTFIHGKNRSIKAIEnknGNPHRE-----DLRISKSSFOVITIKLHGSSPWPQRYRATAGFRNVVACEN--GLPVHLHqsIFRrp</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=13.38 (Å) kes---AAAKERQHMDSGNSpssSST---YCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQN---VCFQEKVTCKngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHF-----dasve ---dnsRYTHfl tqhyDAKP---QGRddrYCESIMRRRGLTS-PCKDINTFIHGKNRSIKAIEnknGNPHREN-----LRIKSSFOVITIKLHGSSPWPQRYRATAGFRNVVACEN--GLPVHLhqsifrrp----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=36.07% (44/123) simi=53.28% (65/123) kesaaak-----ERQHMDSGNSPSS-SSTYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCFqvtckngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHFDA-SVE--- -----dnsrythfl tqhyDA--KPOGRDDRYCESIMRRRGLTS-PCKDINTFIHG---NKRSI---KAIEnknGNPHRENl riskSSFOVITIKLHGSSPWPQRYRATAGFRNVVACEN--LPVHLHqsIFrrp-</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.54 (Å) ke---SAAAKERQHMDSGN-SPSSsSSTYCNQMRRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgNCYKSNSSSMHITDCRLTNGSRYPNCAYRTSQKERHIIVACEGspYVPVHFDA--AS---ve --pdnRYTHfl tqhyDAKPqGRD--DRYCESIMRRRGLTS-PCKDINTFIHGKNRSIKAIEnknGNPHRE-----DLRISKSSFOVITIKLHGSSPWPQRYRATAGFRNVVACEN--GLPVHLHqsIFrrp--</p>

279	<p><b>1h8xA</b> (125)</p> <hr/> <p><b>1kvzA</b> (107)</p>	N	23.36	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=2.68 (Å)  kesaaakferqhmdsgnsp-----SssSTYCNQMRRRNMTQgrCKPVNTFVHEPLVDVQNVCFQekvtckngq--GNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDAASVE--  -----mqdwatfkkkhltdtw--DVDCDNLMPSTSLF--D--CKDKNTFIYSLPGPKALCRG-----vi fSADVLSNSEFYLAECNVKPRK---CKYKLLKSSNRICIRCEH--ELPVHAGVGIcp</p> <p><b>SARST:</b> aliSize=72 (resi) RMSD=3.06 (Å)  kesaaakferqhmdsgnspsssstycnqmmrrrnmqtqgrc-----PVPNTFVHEPLVDVQNVCFQEKVTckngqGNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDAAS----ve  -----mqdwatfkkkhltdtwdvcdnlmptslfdcdKNTFIYSLPGPKALCRGVIFS-----ADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICIRCEH--ELPVHAGVGIcp--</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=20.56% (22/107) simi=34.58% (37/107)  kesaaakferqhmdsgnspsssstycnqmmrrrnmqtqgr-----PVPNTFVHEPLVDVQNVCFQEKVTCKngqncYKSNSSMHITDCRLTngSRypnCAVRTSOKERHIIVACEGspYVPVHF-----dasve  -----mqdwatfkkkhltdtwdvcdnlmptslfdcdKNTFIYSLPGPKALCRGVIFSAD-----VLSNSEFYLAECNVK---PKYKLLKSSNRICIRCEH--LPVHAGVGIcp-----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.94 (Å)  KESAAKFERQHMDSGNSP--sssstyCNQMRRRNMTQgrCKPVNTFVHEPLVDVQNVCF---qekvtckngqGNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDAASV---e  MOD-WITFKKKHLTD-TWDvd-----CDNLMPSTSLF--CKDKNTFIYSLPGPKALCRGVif-----SADVLSNSEFYLAECNVKPRK---CKYKLLKSSNRICIRCEH--ELPVHAGVGIcp-</p>
280	<p><b>1h8xA</b> (125)</p> <hr/> <p><b>1oncA</b> (104)</p>	N	24.04	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=2.59 (Å)  kesaaakferqhmdsgnsp-----SssSTYCNQMRRRNMTQgrCKPVNTFVHEPLVDVQNVCFQekvtckngq--GNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDAASVE-  -----dwltfqkhhitntR--DVDCDNLMPSTSLF--D--CKDKNTFIYSRPEPKAICKGI IAS-----iaSKNVLTTSEFYLSDCNVTISRP----CKYKLLKSTNKFCVTCEN--QAPVHVGVSgc</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=12.76 (Å)  kesa--AAKFERQHMDSGNSpsSSSTYCNQMRRRNMTqgrcPVPNTFVHEPLVDVQNVCFQEKVTckngqGNCYKSNSSMHITDCRLTngsryPNC-AVRTSOKERHIIVACEGspYVPVHFDAAS---ve  ---xdWLTQKHHIT-NT--RDVDCDNLMPSTSLFHC-----CKDKNTFIYSRPEPKAICKGI IAS-----KNVLTSEFYLSDCNVTISRPCKYKLLKSTNKFCVTCEN--QAPVHVGVSgc--</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=28.85% (30/104) simi=50.00% (52/104)  kesaaak-----ERQHMDSGNSpsSSSTYCNQMRRRNMTQgrCKPVNTFVHEPLVDVQNVCFQEKVTCKngqncYKSNSSMHITDCRLTngSRypnCAVRTSOKERHIIVACEGspYVPVHF-----dasve  -----xdwltQKHHITN-----TRDVCNLMSTSLFHC--CKDKNTFIYSRPEPKAICKGI IAS-----VLTSEFYLSDCNVTISRPCKYKLLKSTNKFCVTCENQ--APVHVGVSgc-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.65 (Å)  keSAAKFERQHMDSGNSP--sssstyCNQMRRRNMTQgrCKPVNTFVHEPLVDVQNVCF---qekvtckngqGNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDAASV---e  --PDWLTQKHHIT-NTRDv-----DCDNLMPSTSLFHC--CKDKNTFIYSRPEPKAICKGI IAS-----SKNVLTTSEFYLSDCNVTISRP----CKYKLLKSTNKFCVTCEN--QAPVHVGVSgc-</p>
281	<p><b>1h8xA</b> (125)</p> <hr/> <p><b>1qwqA</b> (124)</p>	N	70.97	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=2.24 (Å)  kesaaakferqhmdsgns-----PSSTYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTckngq--GNCYKSNSSMHITDCRLTNGSRYPNCAYRTSOKERHIIVACEGspYVPVHFDAASVe  -----kesaaakferqhmdsgnsPSSSNYCNLMCCRKMTOGKCKPVNTFVHESLADYKAVCSQKKVTG--KdgqTNCYQSKSTMRTDCREIGSSKYPNCAYKTTVEKHIIVACGGKPSVPVHFDAASV-</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=2.15 (Å)  kesaaakferqhmdsgnspssstycnqmmrrrnmqtqgrcPVPNTFVHEPLVDVQNVCFQEKVTCKngqGNCYKSNSSMHITDCRLTNGSRYPNCAYRTSOKERHIIVACEGspYVPVHFDAAS---ve  -----kesaaakferqhmdsgnspsssnYCNLMCCRKMTOGKCKPVNTFVHESLADYKAVCSQKKVTG--KdgqTNCYQSKSTMRTDCREIGSSKYPNCAYKTTVEKHIIVACGGKPSVPVHFDAASv--</p> <p><b>BLAST:</b> aliSize=105 (resi) iden=76.61% (95/124) simi=84.68% (105/124)  KESAAAKFERQHMDSGNSPSSTYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKngqGNCYKSNSSMHITDCRLTNGSRYPNCAYRTSOKERHIIVACEGspYVPVHFDAASVe  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTOGKCKPVNTFVHESLADYKAVCSQKKVTG--KdgqTNCYQSKSTMRTDCREIGSSKYPNCAYKTTVEKHIIVACGGKPSVPVHFDAASV-</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=1.68 (Å)  KESAAAKFERQHMDSGN--spsSSS--TYCNQMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTckngq--GNCYKSNSSMHITDCRLT--ngSRYPNCAYRTSOKERHIIVACEGspYVPVHFDAASVe  KESAAAKFERQHMDSGN--spsSSSNYCNLMCCRKMTOGKCKPVNTFVHESLADYKAVCSQKKVTG--KdgqTNCYQSKSTMRTDCREIG--SSKYPNCAYKTTVEKHIIVACGGKPSVPVHFDAASV-</p>

282	<p>1h8xA (125)</p> <hr/> <p>1yv7A (102)</p>	N	24.51	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=2.50 (Å)  kesaaakferqhmdsgnsp-----SssSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngq--GNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDASe  -----dwltfgkkhitntR--DVDCDNI--STNLFH---CKDKNTHIYSRPEPKAICKG-I-----iaSKNVLTTSEFYLSDCNVT--SRP----CKYKLLKSTNKFSVTCEN--QAPVHFVGVG-</p> <p><b>SARST:</b> aliSize=96 (resi) RMSD=12.82 (Å)  kesa-AAKFERQHMDsGNSpsSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDA--sve  ---dWLTfQKKHIT-NT---RDVDCDNI--STNLFH---CKDKNTHIYSRPEPKAICKGIIAS-----KNVLTSEFYLSDCNVT--SRPcKYKLLKSTNKFSVTCEN--QAPVHFVGVG---</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=29.70% (30/102) simi=51.49% (52/102)  kesaaak----FERQHMDsgnspSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHF----dasve  -----dwltfgkkhitnt---TRDVDCDNI--STNLFH---CKDKNTHIYSRPEPKAIC-KGIIASKN-----VLTSEFYLSDCNVT--SR--CKYKLLKSTNKFSVTCENQ--APVHFVGVG-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.67 (Å)  keSAAAKFERQHMDsGNSP-ssstYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---qekvtckngqGNCYKSNSSMHITDCRLTNGSRypnCAVRTSOKERHIIVACEGspYVPVHFDASe  --PDWLTfQKKHITN-TRDv----DNDNI--STNLFH---CKDKNTHIYSRPEPKAICKgiia-----SKNVLTTSEFYLSDCNVT--SRP----CKYKLLKSTNKFSVTCEN--QAPVHFVGVG-</p>
283	<p>1h8xA (125)</p> <hr/> <p>2aasA (124)</p>	N	70.16	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=1.88 (Å)  kesaaakferqhmdsgnsp-----SSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFDASe  -----ketaaakferqhmdsstsaASSSNYCNQMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASe</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=14.39 (Å)  k-ESAAAKFERQHMDSGN---SPSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFDASe-ve  -kETAaakFERQHMDSGSTsaASSN---NYCNQMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASev--</p> <p><b>BLAST:</b> aliSize=104 (resi) iden=73.39% (91/124) simi=83.87% (104/124)  KESAAAKFERQHMDSGNSPSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFDASe  KETAAAKFERQHMDSGSTsaASSSNYCNQMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASe-</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.32 (Å)  KESAAAKFERQHMDSGN-SPSSS--tYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFDASe  KETAAAKFERQHMDSGSTsaA--SSsn-YCNQMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACK-NGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASe-</p>
284	<p>1h8xA (125)</p> <hr/> <p>2hkyA (129)</p>	N	33.60	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.94 (Å)  kesaaakferqhmdsgnspssss-----TYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngq--G--NCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACEGS-----PYVPVHFDASe  -----mkpkgmtssqwfkiqhmqpsPQACNSAMK--NINKhtKRCKDLNTHLHEPFSSAAATQTPKIAAC---KngDkNCHQSHGVPVSLTMCKLT--SGKYPNCRKEKRONKSYVVACKPPqkksqQFHLVPVHLDRVL-</p> <p><b>SARST:</b> aliSize=114 (resi) RMSD=14.12 (Å)  k----ESAAAKFERQHMDSGNSPSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACE-----GSPYVPVHFDASe-ve  -mkpkgMTSSQWFKIQHMQSPQACNS---AMKNINKhtKRCKDL---NTHLHEPFSSAAATQTPKIAACKNGDKNCHQSHGVPVSLTMCKLTSGKY--PNCRKEKRONKSYVVACKppqkksqQFHLVPVHLDRV1--</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=37.60% (47/125) simi=54.40% (68/125)  kesaaak-----FERQHMDsgnSPSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACE-----EGSPY--VPVHF----asve  -----mkpkgmtssqwfkiqhmqpsPQACNSAMKNI--KHTKRCKDLNTHLHEPFSSAAATQTPKIAACKNGDKNCHQSHGVPVSLTMCKLTSG--KYPNCRKEKRONKSYVVACKppqkksqQFHLVPVHLDRV1----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.78 (Å)  ---ESAAAKFERQHMDSGN-SPSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVtckngq--G--NCYKSNSSMHITDCRLTNGSRYPNCAVRTSOKERHIIVACEGS-----PYVPVHFDASe  mkpkgMTSSQWFKIQHMQSPQ-----ACNSAMK--NINKhtKRCKDLNTHLHEPFSSAAATQTPKIAAC---KngDkNCHQSHGVPVSLTMCKLT--SGKYPNCRKEKRONKSYVVACKPPqkksqQFHLVPVHLDRVL-</p>

285	<p>1h8xA (125)</p> <p>2k11A (127)</p>	N	89.60	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.73 (Å)  kesaaakferqhmdsgn-----SPSSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQ-G-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAVHE--  -----kesrakkfqrqhmdsdspsSSS--STYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--KNgQgNCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAVHEds</p> <p><b>SARST:</b> aliSize=101 (resi) RMSD=2.03 (Å)  kesaaakferqhmdsgnspss-----SSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCNGGQNCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDA-----sve  -----kesrakkfqrqhmdsdspsSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCNGGQNCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAsveds---</p> <p><b>BLAST:</b> aliSize=121 (resi) iden=95.20% (119/125) simi=96.80% (121/125)  KESAAAKFERQHMDSGNSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCNGGQNCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAVHE--  KESRAKFKFQHQHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCNGGQNCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAVHEds</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.58 (Å)  KESAAAKFERQHMDS-GNSpSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQ-G-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAVHE--  KESRAKFKFQHQHMDSDSSP-SSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--KNgQgNCYKSNSSSMHITDCRLTNGSRYPCAYRTSQKERHIIVACEGSPYVPVHFDAVHEds</p>
286	<p>1jmlA (72)</p> <p>1k52A (72)</p>	C	87.50	<p><b>TM-align:</b> aliSize=60 (resi) RMSD=1.69 (Å)  mhHHHHGM--EETIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYtlnikfag-----  --MHHHHHamEETIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADG-----gytlnikfag</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=11.31 (Å)  mh--HHHHGMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNKFAG-g  --mhHHHHHamEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADGGYTLNKFAG-g-</p> <p><b>BLAST:</b> aliSize=67 (resi) iden=93.06% (67/72) simi=93.06% (67/72)  MHHHHHGMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNKFAG  MHHHHHamEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADGGYTLNKFAG</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=1.58 (Å)  mhHHHHGM--EETIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNKFAG  --MHHHHHamEETIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADGGYTLNKFAG</p>
287	<p>1jmlA (72)</p> <p>1k53A (72)</p>	C	87.50	<p><b>TM-align:</b> aliSize=60 (resi) RMSD=1.67 (Å)  mhHHHHGM--EETIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYtlnikfag-----  --MHHHHHamEETIKANLIFANASTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADK-----gytlnikfag</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=11.32 (Å)  mh--HHHHGMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNKFAG-g  --mhHHHHHamEEVTIKANLIFANASTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKGYTLNKFAG-g-</p> <p><b>BLAST:</b> aliSize=67 (resi) iden=93.06% (67/72) simi=93.06% (67/72)  MHHHHHGMEEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNKFAG  MHHHHHamEEVTIKANLIFANASTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKGYTLNKFAG</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=1.56 (Å)  mhHHHHGM--EETIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVVPKAYTLNKFAG  --MHHHHHamEETIKANLIFANASTQTAEFKGTFEKATSEAYAYADTLKKNNGEWTVDVADKGYTLNKFAG</p>



288	<p>1jmlA (72)</p> <hr/> <p>1xcqL (66)</p>	C	54.55	<p><b>TM-align:</b> aliSize=56 (resi) RMSD=1.86 (Å)  mhhhhhGMEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPK-Aytlnikfag-----  -----PKEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGN-----hmnikfagk</p> <p><b>SARST:</b> aliSize=49 (resi) RMSD=1.23 (Å)  mhhhhhGMEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKAYtlnikfag  -----PKEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNhmnikfagk-----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=63.64% (42/66) simi=71.21% (47/66)  mhhhhhgm--EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKAYTLNIKFAK-  -----pkEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNHMNKFAK</p> <p><b>Proposed:</b> aliSize=65 (resi) RMSD=1.40 (Å)  mhhhhhGMEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKA-YTLNIKFAK  -----PKEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNHMNKFAK</p>
289	<p>1jmlA (72)</p> <hr/> <p>1xcqM (62)</p>	C	66.13	<p><b>TM-align:</b> aliSize=52 (resi) RMSD=1.42 (Å)  mhhhhhgmEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKaytlnikfag-----  -----EVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDG-----gnhmnikfag</p> <p><b>SARST:</b> aliSize=48 (resi) RMSD=1.07 (Å)  mhhhhhgmEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDV-----vpkaytlnikfag  -----EVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNHmnikfag-----</p> <p><b>BLAST:</b> aliSize=46 (resi) iden=66.13% (41/62) simi=74.19% (46/62)  mhhhhhgmEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKAYTLNIKFAK  -----EVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNHMNKFAK</p> <p><b>Proposed:</b> aliSize=62 (resi) RMSD=1.28 (Å)  mhhhhhgmEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKAYTLNIKFAK  -----EVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNHMNKFAK</p>
290	<p>1jmlA (72)</p> <hr/> <p>1xcqN (64)</p>	C	65.63	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=1.58 (Å)  mhhhhhGMEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVP--Kaytlnikfag-----  -----KEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGN-----hmnikfag</p> <p><b>SARST:</b> aliSize=46 (resi) RMSD=1.05 (Å)  mhhhhhGmee---VTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDV-----vvpkaytlnikfag  -----keeVTTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNhmnikfag-----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=65.62% (42/64) simi=73.44% (47/64)  mhhhhhgm--EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVPKAYTLNIKFAK  -----kEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDGGNHMNKFAK</p> <p><b>Proposed:</b> aliSize=62 (resi) RMSD=1.28 (Å)  mhhhhhgm--EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKNDNGEWTVDVVP-KAYTLNIKFAK  -----kEEVTIKVNLIFADGKIQTAEFKGTFEETAEAYRYAALHAKVNGEWTALEDG-GNHMNKFAK</p>

291	<p>1jmlA (72)</p> <p>1xf5M (67)</p>	C	55.22	<p>TM-align: aliSize=53 (resi) RMSD=1.75 (Å)  mhhhhhgm-----EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTKKDNGEWTVVVPK-AytlNIKfag-----  -----epkeEVTIKVNLIFADGKIQTAEFKGTFEATAEAYRYADLLAKVNGEWIADLEGGN-----cmnikfagk</p> <p>SARST: aliSize=59 (resi) RMSD=11.70 (Å)  mhhhhhgmeev-----TIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTKKDNGEWTVVVPKAYTLNKFAG--g  -----epkeevTIKVNLIADGKIQTAEFKGTFEATAEAYRYADLLAKVNGEWIADLEGGNCMNIFAGk-</p> <p>BLAST: aliSize=49 (resi) iden=65.67% (44/67) simi=73.13% (49/67)  mhhhhhgm-----EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTKKDNGEWTVVVPKAYTLNKFAG--  -----epkEVTIKVNLIFADGKIQTAEFKGTFEATAEAYRYADLLAKVNGEWIADLEGGNCMNIFAGk</p> <p>Proposed: aliSize=62 (resi) RMSD=1.17 (Å)  mhhhhhgm-----EVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTKKDNGEWTVVVPK-AYTLNIFAG  -----epkeEVTIKVNLIFADGKIQTAEFKGTFEATAEAYRYADLLAKVNGEWIADLEGGNCMNIFAGk</p>
292	<p>1js0A (124)</p> <p>1a5pA (124)</p>	C	98.39	<p>TM-align: aliSize=114 (resi) RMSD=1.05 (Å)  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv-----  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNF-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.23 (Å)  k-ETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v  -kETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p>BLAST: aliSize=122 (resi) iden=98.39% (122/124) simi=98.39% (122/124)  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.61 (Å)  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
293	<p>1js0A (124)</p> <p>1a5qA (124)</p>	C	99.19	<p>TM-align: aliSize=114 (resi) RMSD=1.02 (Å)  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv-----  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNF-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.21 (Å)  k-ETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v  -kETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.60 (Å)  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHDSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCSYSTMSITDCRETGSSKYPNAAAYKTTQANKHIIVACEGNPYVPVHFDASV</p>

294	<p>1js0A (124)</p> <hr/> <p>lawzA (123)</p>	C	27.64	<p><b>TM-align:</b> aliSize=107 (resi) RMSD=2.31 (Å)  KE-TAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS---QKNVackngqTNCYQSYSTMSITDRETSSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  QDnSRYTHLTOHYDAKPOGR-DDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIICENkGNPHR-----ENLRISKSSFOVITKLGHGSPWPCQYRATAGFRNVVACENGL-----pvhldqsifrrp</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=2.84 (Å)  ket---AAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETSSSKYPNCAYKTTQANKHIIVACE-----gnpyvpvhfdasv  ---qdnsRYTHLTOHYDAKPOGR-DDRYCESIMRRRGLTS-SCKDINTFIHGKRSIKAIICENkGNP--HRENLRISKSSFOVITKLGHGSPWPCQYRATAGFRNVVACENGLpvhldqsifrrp-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=32.52% (40/123) simi=49.59% (61/123)  ketaaak-----FERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETSSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  -----qdnsrythLTOHYDAKPOGRDD-RYCESIMRRRGLTSP-CKDINTFIHGKRSIKAIICENkGNP--NPHRENLRISKSSFOVITKLGHGSPWPCQYRATAGFRNVVACENGL--LPVHLDQSi frrp</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.74 (Å)  KE--TAAAKFERQHMDSSST-saASSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS---QKNVackngqTNCYQSYSTMSITDRETSSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFD--ASV  -QDnSRYTHLTOHYDAKp--GRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIICENkGNPHR-----ENLRISKSSFOVITKLGHGSPWPCQYRATAGFRNVVACENGLPVHLDQSi fRRP</p>
295	<p>1js0A (124)</p> <hr/> <p>1b6vA (124)</p>	C	94.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.39 (Å)  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGKPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.20 (Å)  k-ETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v  -kETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGKPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=118 (resi) iden=94.35% (117/124) simi=95.16% (118/124)  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGKPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.68 (Å)  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVKAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGKPYVPVHFDASV</p>
296	<p>1js0A (124)</p> <hr/> <p>1c8wA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.44 (Å)  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.20 (Å)  k-ETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-v  -kETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.76 (Å)  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV  KETAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>

297	1js0A (124)	C	99.19	<b>TM-align:</b> aliSize=115 (resi) RMSD=1.38 (Å) KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> vpvhf <del>dasv</del> ----- KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> -----vpvhf <del>dasv</del>
	1c9vA (124)			<b>SARST:</b> aliSize=122 (resi) RMSD=6.24 (Å) k- <del>E</del> TAAAKFERQH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDAS <del>-v</del> -k <del>E</del> TAAAKFERQH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDAS <del>v-</del>
				<b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124) KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV
				<b>Proposed:</b> aliSize=124 (resi) RMSD=0.66 (Å) KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV
298	1js0A (124)	C	99.19	<b>TM-align:</b> aliSize=115 (resi) RMSD=1.36 (Å) KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> vpvhf <del>dasv</del> ----- KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> -----vpvaf <del>dasv</del>
	1c9xA (124)			<b>SARST:</b> aliSize=122 (resi) RMSD=6.24 (Å) k- <del>E</del> TAAAKFERQH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDAS <del>-v</del> -k <del>E</del> TAAAKFERQH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVAFDAS <del>v-</del>
				<b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124) KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVAFDASV
				<b>Proposed:</b> aliSize=124 (resi) RMSD=0.58 (Å) KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV KETA <del>AAKFER</del> QH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVAFDASV
299	1js0A (124)	C	68.91	<b>TM-align:</b> aliSize=107 (resi) RMSD=1.60 (Å) keta <del>aaK</del> FERQH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> vpvhf <del>dasv</del> ----- -----AF <del>ROH</del> MDSDS-SPSS <del>S</del> TYCN <del>QMMRR</del> RM <del>TOGR</del> CKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GSP</del> -----yvvhf <del>dasve</del>
	1e21A (119)			<b>SARST:</b> aliSize=116 (resi) RMSD=6.54 (Å) keta <del>aaK</del> - <del>F</del> ROH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDAS <del>-v</del> -----a <del>F</del> ROH <del>MDSDS</del> SPSS <del>S</del> TYCN <del>QMMRR</del> RM <del>TOGR</del> CKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GSP</del> VVPVHFDAS <del>ve-</del>
				<b>BLAST:</b> aliSize=97 (resi) iden=69.75% (83/119) simi=81.51% (97/119) keta <del>aaK</del> - <del>F</del> ROH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV <del>-e</del> -----a <del>F</del> ROH <del>MDSDS</del> SPSS <del>S</del> TYCN <del>QMMRR</del> RM <del>TOGR</del> CKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GSP</del> VVPVHFDASV <del>e</del>
				<b>Proposed:</b> aliSize=117 (resi) RMSD=1.29 (Å) keta <del>aaK</del> FERQH <del>MDSS</del> STAASS <del>SN</del> CN <del>QMMK</del> SRNLTKDR <del>CKPV</del> NTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GNPY</del> VVPVHFDASV <del>-e</del> -----AF <del>ROH</del> MDSDS-SPSS <del>S</del> TYCN <del>QMMRR</del> RM <del>TOGR</del> CKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRE <del>TGSSKYP</del> NCA <del>YKTTQ</del> ANKHIIVACE <del>GSP</del> VVPVHFDASV <del>e</del>

300	1js0A (124)	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.45 (Å)  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y v p v h f d a s v -----  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y ----- v p v h g d a s v</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=4.31 (Å)  k- E T A A A K F E R O H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v  -k E T A A A K F E R O H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v -----</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v -----</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.76 (Å)  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v -----</p>
301	1js0A (124)	C	99.19	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.16 (Å)  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y v p v h f d a s v -----  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y ----- y p v h w d a s v</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.21 (Å)  k- E T A A A K F E R O H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v - v  -k E T A A A K F E R O H M D S S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v - -</p> <p><b>BLAST:</b> aliSize=124 (resi) iden=99.19% (123/124) simi=100.00% (124/124)  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v -----</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.73 (Å)  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v  KETA AA AK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S O K N V A C K N G O T N C Y Q S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y V P V H F ----- d a s v -----</p>
302	1js0A (124)	C	32.26	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=2.39 (Å)  ke----TAAAK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S ---QKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPyvpvhfdasv-----  --aqddyRYIHfLTQHYDA-K-PKGRNdEYCFNMKNRRLT-RPCKDRNTHfHGKNKIKAI CEDRNGOPYR----GDLRI SKSEFOITIKHKGSS-RPpCRIGATEDSRVIVGCEngL-----pvhfdesfi tprh</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=5.77 (Å)  ketaaakferqhmdsstsaass-----SNYCNQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSOKNVACKNGqTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPyVPVH-----dasv  -----aqddyryihfLqhydakpgrndEYCFNMKNRRLT-RPCKDRNTHfHGKNKIKAI CEDRNGOPYR--DLRISKSEFOITIKHKGSS-RPpCRIGATEDSRVIVGCEngL-----desfi tprh----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=35.48% (44/124) simi=48.39% (60/124)  ketaaak-----FEROHMDSSTSAASSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVOAVCSOKNVACKNGQTNcyqSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDA-----v  -----aqddyryihfLTQHYDAKPKGRNDE-YCFNMKNRRLTRP-CKDRNTHfHGKNKIKAI CEDRNGOPYRDLRI--SKSEFOITIKHKGSS-RPpCRIGATEDSRVIVGCEngL-----LPVHFDdesfi tprh-</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.92 (Å)  ke----TAAAK FER OH M DS S T S A A S S S N Y C N Q M M K S R N L T K D R C K P V N T F V H E S L A D V Q A V C S ---QKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNpyVPVHFDA-SV----  --aqddyR-YIHfLTQHYDA-K-PKGRNdEYCFNMKNRRLT-RPCKDRNTHfHGKNKIKAI CEDRNGOPYR----GDLRISKSEFOITIKHKGSS-RPpCRIGATEDSRVIVGCEngL-----LPVHFDdesfi tprh</p>
	1gioA (125)			

303	<p>1js0A (124)</p> <p>1gv7A (123)</p>	C	41.46	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=2.19 (Å)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPyvpvhfdasv-----  DNSRYTHLTOHYIAKPOGR-DDRYCESIMRRRGLT-SPCKDINTFIHGKRSIKAI CSQKNVACKNGOTNCYI SKSFOVITKLGSGPWPPQYRATAGFRNVVACENGL-----pvhldqsifr</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=4.69 (Å)  ket---AAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEg NPYVPVHF-----dasv  ---dnsRYTHLTOHYIAKPOGR-DDRYCESIMRRRGLT-SPCKDINTFIHGKRSIKAI CSQKNVACKNGOTNCYI SKSFOVITKLGSGPWPPQYRATAGFRNVVAC--ENGLPVHLDqsifr---</p> <p><b>BLAST:</b> aliSize=72 (resi) iden=42.62% (52/123) simi=59.02% (72/123)  ketaaak-----FERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NpyVPVHFDA SV--  -----dnsrythLTOHYIAKPOGRDD-RYCESIMRRRGLT-SPCKDINTFIHGKRSIKAI CSQKNVACKNGOTNCYI SKSFOVITKLGSGPWPPQYRATAGFRNVVACENG--LPVHLDQsIFr</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.41 (Å)  ke---TAAAKFERQHMDSST-saAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NpyVPVHFDA-SV-  --pdnRYTHLTOHYIAKPOq--GRDDRYCESIMRRRGLT-SPCKDINTFIHGKRSIKAI CSQKNVACKNGOTNCYI SKSFOVITKLGSGPWPPQYRATAGFRNVVACEN--GLPVHLDQsIFr</p>
304	<p>1js0A (124)</p> <p>lizpA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.06 (Å)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG Nfyvpvhfdasv-----  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG N-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.24 (Å)  k-E TAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA S-v  -kETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA S-v-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.61 (Å)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV</p>
305	<p>1js0A (124)</p> <p>lizqA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.10 (Å)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG Nfyvpvhfdasv-----  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG N-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.24 (Å)  k-E TAAAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA S-v  -kETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA S-v-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.66 (Å)  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV  KETA AAKFERQHMDSSSTAAsSSNYCNQMMKSRNLTKDRCKPVNTLVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA YKTTQANKHIIVACEG NPYVPVHFDA SV</p>

306	<p>ljs0A (124)</p> <hr/> <p>lizrA (124)</p>	C	99.19	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.64 (Å)  KETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>vpvhfdasv-----  KETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.29 (Å)  k-<del>E</del>TAAAKFERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDAS-v  -k<del>E</del>TAAAKFERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASv-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV  KETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.05 (Å)  KETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV  KETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV</p>
307	<p>ljs0A (124)</p> <hr/> <p>lj80B (101)</p>	C	100.00	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=1.23 (Å)  ketaaakferqhmdsstsaasssNYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>vpvhfdasv-----  -----NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=6.89 (Å)  ketaaakferqhmdsstsaasssNYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDAS-v  -----nNYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASv-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=100.00% (101/101) simi=100.00% (101/101)  ketaaakferqhmdsstsaasssNYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV  -----NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=0.70 (Å)  ketaaakferqhmdsstsaasssNYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV  -----NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV</p>
308	<p>ljs0A (124)</p> <hr/> <p>lk5aA (118)</p>	C	31.36	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=1.86 (Å)  kETA<del>AAK</del>FERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCS---QKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>vpvhfdasv-----  -NSRYTHELTHYDAKPOGR-DDRYCESIMRRRGLT-SPCKDINTFIHGNKRSIKAI<del>ENknGNPHR</del>-----ENLRISKSSFOVITKLGHGSPWPPOQRATAGFRNVVACEN-----lpvhldqsaa</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=4.68 (Å)  ket--AAAKFERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCS---SQKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDAS-----dasv  ---nsRYTHELTHYDAKPOGRDDRYCESIMRRRGLT-SPCKDINTFIHGNKRSIKAI<del>ENknGNPHR</del>-----ENLRISKSSFOVITKLGHGSPWPPOQRATAGFRNVVACEN--GLPVHLDqsaa----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=33.90% (40/118) simi=50.85% (60/118)  ketaaak-----ERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCSQKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDAS--v  -----nsrythELTHYDAKPOGRDDRYCESIMRRRGLTSPCKDINTFIHGNKRSIKAI<del>ENknGNPHR</del>-----NPHRENLRISKSSFOVITKLGHGSPWPPOQRATAGFRNVVACEN--LPVHLDQsaa-</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.56 (Å)  ke-TAAAKFERQH<del>MDSS</del>TSAA<del>SS</del>NYC<del>NQMM</del>KSR<del>NLTK</del>DR<del>CKPV</del>NTFVHESLADVOAVCS---QKNVackngqTNCYQSYSTMSITDCRETGSSKYPNCA<del>YKTTQANKHI</del>IVACE<del>GNPY</del>VPVHFDASV  --nSRYTHELTHYDAKPOGRDDRYCESIMRRRGLT-SPCKDINTFIHGNKRSIKAI<del>ENknGNPHR</del>-----ENLRISKSSFOVITKLGHGSPWPPOQRATAGFRNVVACEN--GLPVHLDQsAA</p>

309	<p>1js0A (124)</p> <hr/> <p>1kh8A (125)</p>	C	98.39	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=0.92 (Å)  - kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE--G-Npyvpvhfdasv-----  m kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEEgnGyV-----pvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.37 (Å)  k--ETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  -mkETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNGYVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  - kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  m kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNGYVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.66 (Å)  - kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACE--GnpYVPVHFDA--v  m kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEEgnG--YVPVHFDA--v</p>
310	<p>1js0A (124)</p> <hr/> <p>1kvzA (107)</p>	C	26.17	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.66 (Å)  kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  -MQDWITFKKKHLTD--I-WD---V--DCDNL--MPTSIfDCKDKNTFIYSLPGPKALCR-----gvifSADVLSNFEFLAEINVKPRK---PKYKLLKSSNRICIRCEHE-----pvhfagvgicp</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=8.20 (Å)  keta---AAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  ---mqdWITFKKKHLTD--I-DTWVDCDNLMPSTLFD-----DKNTFIYSLPGPKALCRGVIFSA-----DVLNSFEFLAEINVKPRK---PKYKLLKSSNRICIRCEHE--LPVHFAGVgicp</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=27.10% (29/107) simi=49.53% (53/107)  ketaa----AKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  -----mqdWITFKKKHLTD--I-DTWVDCDNLMPSTLFD-----DKNTFIYSLPGPKALCRGVIFSA-----DVLNSFEFLAEINVKPRK---PKYKLLKSSNRICIRCEHE--LPVHFAGVgicp</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=2.08 (Å)  ke-TAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS-----qknvackngqtNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGnpYVPVHFDA--v  --mQDWITFKKKHLTD--I-WDV---DCDNLMPSTLFD-----DKNTFIYSLPGPKALCRGVIFSA-----ADVLSNFEFLAEINVKPRK---PKYKLLKSSNRICIRCEHE--ELPVHFAGVgicp</p>
311	<p>1js0A (124)</p> <hr/> <p>1m58A (106)</p>	C	28.30	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.73 (Å)  kETAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  -MQNWETFKKKHLTD--I-RDV---KDAEMKALFD---CKQKNTFIYARPGRVOALCKNI-----ivSKNVLSTDEFYLSDCNRILKLP---CHYKLLKSSNTICITENK-----lpvfvaveecp</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=7.87 (Å)  ketaaakferqhmdsstsaasssn-----YCNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS---QKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  -----mqnWETfqqkhltdtrdvkcdAEMKALFD-----CKQKNTFIYARPGRVOALCKNIIVSK-----NVLSTDEFYLSDCNRILKLP---CHYKLLKSSNTICITENK-----lpvfvaveecp</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=31.13% (33/106) simi=49.06% (52/106)  ketaaak----FERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDA--v  -----mqnWETfqqkhltdtrdvkcdAEMKALFD---CKQKNTFIYARPGRVOALCKNIIVSKNVLSTDEFYLSDCNRILKLP---CHYKLLKSSNTICITENK--LPVHFVaveecp</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=2.06 (Å)  ke-TAAAKFERQHMDSSSTSAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCS-----qknvackngqtNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGnpYVPVHFDA--v  --mQNWETfqqkhltdtrdvkcdAEMKALFD---CKQKNTFIYARPGRVOALCKNIIVSKNVLSTDEFYLSDCNRILKLP---CHYKLLKSSNTICITENK--LPVHFVaveecp</p>



312	<p>1js0A (124)</p> <hr/> <p>1oj8A (105)</p>	C	23.81	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.56 (Å)  ketAAAKFERQHMDsStsAASsnYcNQMkSRNLTKdrCKPvNtFVHESLADVQAVCSQKNvackngq-TNCYQSYSTMSITDCREtGSSkypnCAKTTQANKHIIVACEGNpyvpvhfdasv-----  ---DWDtFQKKHLT-DI-KKV---KIDVEMKALFD---CKKTNTIFARPPRVOALCKNIK-----nNTNVL-SRDVFYLPQCNRK-KLP---CHVRLDGSTNTCLTCKE-----pihfagvgkcp</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=7.48 (Å)  keta-AAKFERQHMDsStsAASsnycnqMMKSRNLTKDRCKPvNtFVHESLADVQAVCSQKNvackngQTNCYQSYSTMSITDCREtGssYpNcAKTTQANKHIIVACeGNPYVPVHFDAS----v  ----dWDtFQKKHLT-DIKKVK-----CDVEMKALFDCKKTNTIFARPPRVOALCKNIK-----NNTNVL-SRDVFYLPQCNRK---KLP-C-HVRLDGSTNTCLTCKE---MKELPIHFAGVgkcp-</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=31.73% (33/105) simi=46.15% (48/105)  ketaaak----FERQHMDsStsAASsnYcNQMkSRNLTKdrCKPvNtFVHESLADVQAVCSQKNvackngQTNCYQSYSTMSITDCREtGssSKYpNcAKTTQANKHIIVACeGNPYVPVHFDAS----dasv  -----dwdtFQKKHLT-DIKKVK-----CDVEMKALFD---CKKTNTIFARPPRVOALCKNIK---KN-NNTNVL-SRDVFYLPQCNRK---KLP-C-HVRLDGSTNTCLTCKE---LPIHFAGVgkcp----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.84 (Å)  keTAAAKFERQHMDsStsAASsnYcNQMkSRNLTKdrCKPvNtFVHESLADVQAVCS-----qknvackngqtTNCYQSYSTMSITDCREtGSSkypNcAKTTQANKHIIVACeGNPYVPVHFDASV---  --PDWDtFQKKHLT-DIKKV---KIDVEMKALFD---CKKTNTIFARPPRVOALCKNIKnn-----TNVLSRDVFYLPQCNRK-KL---PCHVRLDGSTNTCLTCKE---ELPIHFAGVgkcp</p>
313	<p>1js0A (124)</p> <hr/> <p>1pu3A (105)</p>	C	26.67	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.44 (Å)  kETAAAKFERQHMDsStsAASsnYcNQMkSRNLTKdrCKPvNtFVHESLADVQAVCSQKNvackngq---TNCYQSYSTMSITDCREtGSSkypnCAKTTQANKHIIVACeGNpyvpvhfdasv-----  -MQDWLTfQKKHITN-I-RDV---DNDNLSTNLFH---CKDKNTFIYSRPEPKAICKG-----iiasKNVLTTFEFYLSDCNVTSRP---CKYKLLKSTNKFCVTCENQ-----apvhfvgvsc</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=7.56 (Å)  keta---AAKFERQHMDsStsAASsnycnqMMKSRNLTKDRCKPvNtFVHESLADVQAVCSQKNvackngQT---TNCYQSYSTMSITDCREtGSSkypnCAKTTQANKHIIVACeGNPYVPVHFDAS---v  ---mqdWLTfQKKHITN-I-RDvd-----CDNILSTNLFHCKDKNTFIYSRPEPKAICK-----GIiasKNVLTTFEFYLSDCNVTSRP---CKYKLLKSTNKFCVTCENQAPVHFDASVgsc-</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=32.38% (34/105) simi=51.43% (54/105)  ketaaak-----FERQHMDsStsAASsnYcNQMkSRNLTKdrCKPvNtFVHESLADVQAVCSQKNvackngQTNCYQSYSTMSITDCREtGssSKYpNcAKTTQANKHIIVACeGNPYVPVHFDAS----dasv  -----mqdwlTFQKKHITNTRDvd-----CDNILSTNLFHCKDKNTFIYSRPEPKAICKGIIASKNVLTTFEFYLSDCNVT---SRP---CKYKLLKSTNKFCVTCENQ---APVHFDASVgsc----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.76 (Å)  keTA-AAKFERQHMDsStsAASsnYcNQMkSRNLTKdrCKPvNtFVHESLADVQAVCS-----qknvackngqtTNCYQSYSTMSITDCREtGSSkypnCAKTTQANKHIIVACeGNPYVPVHFDASV---  --MQdWLTfQKKHITN-I-RDV---DNDNLSTNLFH---CKDKNTFIYSRPEPKAICKGIIAS-----KNVLTTFEFYLSDCNVTSRP---CKYKLLKSTNKFCVTCENQ---QAPVHFDASVgsc</p>
314	<p>1js0A (124)</p> <hr/> <p>1qwqA (124)</p>	C	75.81	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=2.52 (Å)  KETAAAKFERQHMDsStsAASSN-YcNQMkSRNLTKDRCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQANKHIIVACeGNpyvpvhfdasv-----  KESAAAKFERQHMDsGNS-PSSSNycNLMCCRKMTOGKCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQVEKHIIVACGGKPSVPVHFDASV-----svpvhfadasv</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=6.76 (Å)  k--ETAAAKFERQHMDsStsAASSSNycN-QMkSRNLTKDRCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQANKHIIVACeGNPYVPVHFDAS---v  -keSAAAKFERQHMDsGNS-PSSSNycNLMCCRKMTOGKCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQVEKHIIVACGGKPSVPVHFDASV-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=80.65% (100/124) simi=86.29% (107/124)  KETAAAKFERQHMDsStsAASSSNycNQMkSRNLTKDRCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQANKHIIVACeGNPYVPVHFDASV  KESAAAKFERQHMDsGNS-PSSSNycNLMCCRKMTOGKCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=1.92 (Å)  ke--TAAAKFERQHMDsStsAASSSNycNQMkSRNLTKDRCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQANKHIIVACeGNPYVPVHFDASV  --keSAAAKFERQHMDsGNS-PSSSNycNLMCCRKMTOGKCKPvNtFVHESLADVQAVCSQKNvackngqTNCYQSYSTMSITDCREtGSSkypNcAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

315	<p>1js0A (124)</p> <hr/> <p>1rasA (123)</p>	C	100.00	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=1.04 (Å)  kETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-----  -ETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=6.26 (Å)  ke-TAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-v  --e-TAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=100.00% (123/123) simi=100.00% (123/123)  kETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV  -ETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.54 (Å)  kETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV  -ETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV</p>
316	<p>1js0A (124)</p> <hr/> <p>1rmfA (120)</p>	C	43.33	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=2.02 (Å)  K-ETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-----  MqDGMYQRFRLROHVHPEE-TGGSDRYCNLMQRRKMLYHCKRFNTFTHEDIWNIRSIICSTTIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPYVPVHFDG---qvpvhfdg</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=5.06 (Å)  ket---AAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-asv  ---mqdGMYQRFRLROHVHPEETGG-SDRYCNLMQRRKMLYHCKRFNTFTHEDIWNIRSIICSTTIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPYVPVHFDG---g---</p> <p><b>BLAST:</b> aliSize=78 (resi) iden=43.33% (52/120) simi=65.00% (78/120)  ketaaa-----KFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-asv  -----mqdGMYQRFRLROHVHPEETGGSD-SDRYCNLMQRRKMLYHCKRFNTFTHEDIWNIRSIICSTTIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPYVPVHFDG---g---</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.31 (Å)  ke---TAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV  --mqdGMYQRFRLROHVHPEETGG-SDRYCNLMQRRKMLYHCKRFNTFTHEDIWNIRSIICSTTIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRVRAIASTRRVVIACEGNPYVPVHFDG---</p>
317	<p>1js0A (124)</p> <hr/> <p>1rraA (124)</p>	C	66.94	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.66 (Å)  KETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-----  AESSADKFKROHMDTEGPKSSPTCYNOQMMKROGMTGSKCPVNTFVHESLADVOAVCSQGNVCKNGRNNCHKSSSTLRITDCRLKSSSKYPNCDITTDTSQKHIIVACEGNPYVPVHFDASV-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.28 (Å)  k-TAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV-v  -a-ESSADKFKROHMDTEGPKSSPTCYNOQMMKROGMTGSKCPVNTFVHESLADVOAVCSQGNVCKNGRNNCHKSSSTLRITDCRLKSSSKYPNCDITTDTSQKHIIVACEGNPYVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=98 (resi) iden=66.94% (83/124) simi=79.03% (98/124)  k-TAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV  -a-ESSADKFKROHMDTEGPKSSPTCYNOQMMKROGMTGSKCPVNTFVHESLADVOAVCSQGNVCKNGRNNCHKSSSTLRITDCRLKSSSKYPNCDITTDTSQKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.07 (Å)  KETAAAKFERQHMDSSSTSAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAKTTQANKHIIVACEGNPYVPVHFDASV  AESSADKFKROHMDTEGPKSSPTCYNOQMMKROGMTGSKCPVNTFVHESLADVOAVCSQGNVCKNGRNNCHKSSSTLRITDCRLKSSSKYPNCDITTDTSQKHIIVACEGNPYVPVHFDASV</p>



321	<p>1js0A (124)</p> <hr/> <p>1yv7A (102)</p>	C	28.43	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.54 (Å)  ketAAAKFERQHMDsSsAASsnYCNQMKSRNLTKdrCKPVNTFVHESLADVOAVCSQkNvackngq--TNCYQSYSTMSITDCREIGSSkypnCAVKTTOANKHIIVACEGnpYvpvhfdasv-----  ---DWLTFQKKHITNTRDV---DCDNI MSTNLFH---CKDKNTHIYSRPEPKAICKGIASKNVLITTEFYLSDCNVTSRP---CKYKLLKSTNKFSVTCENQ-----apvhfvvg</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=7.20 (Å)  keta-AAKFERQHMDsSsAASsnYCNQMKSRNLTKdrCKPVNTFVHESLADVOAVCSQKNVACKngqtnCYQSYSTMSITDCREIGSSkypnCAVKTTOANKHIIVACEGnpYVPVHEDA--sv  ---dWLTfQKKHITNTRDV---DCDNI MSTNLFH---CKDKNTHIYSRPEPKAICKGIASKNVLITTEFYLSDCNVTSRP---CKYKLLKSTNKFSVTCEN--QAPVHfVgvg--</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=34.65% (35/102) simi=53.47% (54/102)  ketaaak----FERQHMDsSsAASsnYCNQMKSRNLTKdrCKPVNTFVHESLADVOAVCSQKNVACKngqtnCYQSYSTMSITDCREIGSSkypnCAVKTTOANKHIIVACEGnpYVPVHEDA--sv  -----dwlTfQKKHITNTRDV---DCDNI MSTNLFH---CKDKNTHIYSRPEPKAICKGIASKNVLITTEFYLSDCNVTSRP---CKYKLLKSTNKFSVTCENQ--APVHfVgvg----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.83 (Å)  keTAAAKFERQHMDsSsAASsnYCNQMKSRNLTKdrCKPVNTFVHESLADVOAVCS-----qknvackngqtNCYQSYSTMSITDCREIGSSkypnCAVKTTOANKHIIVACEGnpYVPVHEDASV  --PDWLTfQKKHITNTRDV---DCDNI MSTNLFH---CKDKNTHIYSRPEPKAICKGIASKNVLITTEFYLSDCNVTSRP---CKYKLLKSTNKFSVTCEN--QAPVHfVgvg</p>
322	<p>1js0A (124)</p> <hr/> <p>2aasA (124)</p>	C	100.00	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.62 (Å)  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYvpvhfdasv-----  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYvpvhfdasv-----</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=6.44 (Å)  keta----AAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDAS--v  ----ketaAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=124 (resi) iden=100.00% (124/124) simi=100.00% (124/124)  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASV  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.27 (Å)  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASV  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASV</p>
323	<p>1js0A (124)</p> <hr/> <p>2e0jA (128)</p>	C	68.55	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=1.50 (Å)  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYvpvhfdasv-----  KESRAKkFQROHMDsSsPSSSSTYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYvpvhfdasvedst</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.26 (Å)  k-ETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDAS-----v  -kESRAKkFQROHMDsSsPSSSSTYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASvedst-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=70.16% (87/124) simi=81.45% (101/124)  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASV-----  KESRAKkFQROHMDsSsPSSSSTYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASVedst</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=1.08 (Å)  KETAAAKFERQHMDsSsAASsnYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASV-----  KESRAKkFQROHMDsSsPSSSSTYCNQMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAVKTTOANKHIIVACEGnpYVPVHFDASVedst</p>

324	<p>1js0A (124)</p> <hr/> <p>2e0IA (128)</p>	C	69.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.52 (Å)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KESRAKKEFORQHMDSDSSPSSSTYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasvedst</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=6.28 (Å)  ke--TAAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-----v  --keSRAKKEFORQHMDSDSSPSSSTYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASvedst-</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=69.35% (86/124) simi=80.65% (100/124)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  KESRAKKEFORQHMDSDSSPSSSTYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVedst</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.88 (Å)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  KESRAKKEFORQHMDSDSSPSSSTYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVedst</p>
325	<p>1js0A (124)</p> <hr/> <p>2e0mA (128)</p>	C	69.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.53 (Å)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KESRAKKEFORQHMDSDSSPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasvedst</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=6.27 (Å)  ke--TAAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS-----v  --keSRAKKEFORQHMDSDSSPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASvedst-</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=69.35% (86/124) simi=80.65% (100/124)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  KESRAKKEFORQHMDSDSSPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVedst</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.88 (Å)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV----  KESRAKKEFORQHMDSDSSPSSSLYCNLMMLLRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVedst</p>
326	<p>1js0A (124)</p> <hr/> <p>2e0oA (126)</p>	C	68.55	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=1.38 (Å)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KESRAKKEFORQHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----yvpvhfdasved</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.29 (Å)  k--TAAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS---v  -kSRAKKEFORQHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASved-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=69.35% (86/124) simi=81.45% (101/124)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV--  KESRAKKEFORQHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVed</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=1.02 (Å)  KETAIAKFERQHMDSSSTAAASSNYCNQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGGTNCYQSYSTMSITDCREIIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV--  KESRAKKEFORQHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVed</p>

327	<p>1js0A (124)</p> <hr/> <p>2e0oB (125)</p>	C	69.35	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.66 (Å)  -kETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  -mKESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLLVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.30 (Å)  k--ETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  -mKESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLLVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=69.35% (86/124) simi=81.45% (101/124)  -kETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  -mKESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLLVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.12 (Å)  -kETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  -mKESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLLVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA--v</p>
328	<p>1js0A (124)</p> <hr/> <p>2hkyA (129)</p>	C	41.94	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=2.47 (Å)  ---EIAAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  mkpLgMTSSQWFKIQHMOPSP---Q---ACNSAMK---NINKhtKCKDLNTEFLHEPFSSVAATQTPKIAC-KNgDKNCHOSHGPVSLTMCKLI-SGKYPNCRKYEKRQNSYVVACKPPQK-----kdsqqfhlvpvhldrv1</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=7.66 (Å)  keta-----AAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNP-----YVPVHFDA--v  ---mkpLgMTSSQWFKIQHMOPSPQAC-NSAMKNINKHTK---RCKDLNTEFLHEPFSSVAATQTPKIACKNGDKNCHOSHGPVSLTMCKLI-TSGKYPNCRKYEKRQNSYVVACKPPQKkdsqqfhlvpvhldrv1</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=43.55% (54/124) simi=57.26% (71/124)  ke-----IAAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPY-----YVPVHFDA--v  ---mkpLgMTSSQWFKIQHMOPSPQAC-NSAMKNINKHTKCKDLNTEFLHEPFSSVAATQTPKIACKNGDKNCHOSHGPVSLTMCKLI-SGKYPNCRKYEKRQNSYVVACKPPQKkdsqqfhlvpvhldrv1</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.86 (Å)  ---EIAAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNP-----YVPVHFDA--v  mkpLgMTSSQWFKIQHMOPSPQAC-NSAMK---NINKhtKCKDLNTEFLHEPFSSVAATQTPKIAC-KNgDKNCHOSHGPVSLTMCKLI-SGKYPNCRKYEKRQNSYVVACKPPQKkdsqqfhlvpvhldrv1</p>
329	<p>1js0A (124)</p> <hr/> <p>2k11A (127)</p>	C	69.35	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=1.92 (Å)  KETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLVDVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPY-----yvpvhfdasveds</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=5.81 (Å)  k-ETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA-----sv  -kESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLVDVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA--sveds--</p> <p><b>BLAST:</b> aliSize=102 (resi) iden=70.16% (87/124) simi=82.26% (102/124)  KETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  KESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLVDVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=1.63 (Å)  k-ETAIAAKFERQHMDSSSTAASSSNYCNOQMKSRNLTkdRCKPVNTFVHESLADVQAVCSQKNVACKNGQTCYQSYSTMSITDCREIGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDA--v  -kESRAKFKFQROHMDSDSSPSSSSTYCNOQMRNRNMTQGRCKPVNTFVHEPLVDVQVQVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA--v</p>

330	<p>1js0A (124)</p> <hr/> <p>2nuiA (124)</p>	C	99.19	<p>TM-align: aliSize=114 (resi) RMSD=1.06 (Å)  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>vpvhfdasv-----  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>vpvhfdasv-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.25 (Å)  k-<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>-v  -k<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>-v-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del></p> <p>Proposed: aliSize=124 (resi) RMSD=0.59 (Å)  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del></p>
331	<p>1js0A (124)</p> <hr/> <p>2op2A (124)</p>	C	98.39	<p>TM-align: aliSize=114 (resi) RMSD=1.21 (Å)  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>vpvhfdasv-----  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>vpvhfdasv-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.21 (Å)  k-<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>-v  -k<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>-v-</p> <p>BLAST: aliSize=122 (resi) iden=98.39% (122/124) simi=98.39% (122/124)  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del></p> <p>Proposed: aliSize=124 (resi) RMSD=0.79 (Å)  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>  KETA<del>AA</del>KFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del></p>
332	<p>1js0A (124)</p> <hr/> <p>2q4gX (126)</p>	C	69.35	<p>TM-align: aliSize=114 (resi) RMSD=1.50 (Å)  k<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>vpvhfdasv-----  -<del>S</del>RRAK<del>K</del>FQROHMDS<del>D</del>SS<del>S</del>SS<del>S</del>TYC<del>N</del>Q<del>M</del>RR<del>R</del>MT<del>Q</del>GRCKPVNTFVHE<del>P</del>LV<del>D</del>VQ<del>N</del>VC<del>F</del>JE<del>K</del>VTCKNGG<del>G</del>NCYK<del>S</del>NS<del>S</del>MHI<del>T</del>DCRL<del>I</del>NGSRYPNCAYRTSPKERHIIVACE<del>G</del>SP<del>Y</del>vpvhfdasveds-----vpvhfdasveds</p> <p>SARST: aliSize=121 (resi) RMSD=6.30 (Å)  ke-<del>T</del>AAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>----v  --e<del>S</del>RRAK<del>K</del>FQROHMDS<del>D</del>SS<del>S</del>SS<del>S</del>TYC<del>N</del>Q<del>M</del>RR<del>R</del>MT<del>Q</del>GRCKPVNTFVHE<del>P</del>LV<del>D</del>VQ<del>N</del>VC<del>F</del>JE<del>K</del>VTCKNGG<del>G</del>NCYK<del>S</del>NS<del>S</del>MHI<del>T</del>DCRL<del>I</del>NGSRYPNCAYRTSPKERHIIVACE<del>G</del>SP<del>Y</del>VPVHFDAS<del>V</del>veds-</p> <p>BLAST: aliSize=101 (resi) iden=69.35% (86/124) simi=81.45% (101/124)  k<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>---  -<del>S</del>RRAK<del>K</del>FQROHMDS<del>D</del>SS<del>S</del>SS<del>S</del>TYC<del>N</del>Q<del>M</del>RR<del>R</del>MT<del>Q</del>GRCKPVNTFVHE<del>P</del>LV<del>D</del>VQ<del>N</del>VC<del>F</del>JE<del>K</del>VTCKNGG<del>G</del>NCYK<del>S</del>NS<del>S</del>MHI<del>T</del>DCRL<del>I</del>NGSRYPNCAYRTSPKERHIIVACE<del>G</del>SP<del>Y</del>VPVHFDAS<del>V</del>eds</p> <p>Proposed: aliSize=123 (resi) RMSD=0.84 (Å)  k<del>E</del>TAAAKFEROHMDSSTSAASSSN<del>Y</del>CN<del>Q</del>MMKSRNLT<del>K</del>DRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRE<del>T</del>GSSKYPNCAYKTTQANKHIIVACE<del>G</del>NP<del>Y</del>VPVHFDAS<del>V</del>---  -<del>S</del>RRAK<del>K</del>FQROHMDS<del>D</del>SS<del>S</del>SS<del>S</del>TYC<del>N</del>Q<del>M</del>RR<del>R</del>MT<del>Q</del>GRCKPVNTFVHE<del>P</del>LV<del>D</del>VQ<del>N</del>VC<del>F</del>JE<del>K</del>VTCKNGG<del>G</del>NCYK<del>S</del>NS<del>S</del>MHI<del>T</del>DCRL<del>I</del>NGSRYPNCAYRTSPKERHIIVACE<del>G</del>SP<del>Y</del>VPVHFDAS<del>V</del>eds</p>

333	1js0A (124)	C	99.19	<p>TM-align: aliSize=114 (resi) RMSD=1.07 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv-----  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNP-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.23 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV-v  -k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAVv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.62 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFAHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p>
	3dh6A (124)			
334	1js0A (124)	C	99.19	<p>TM-align: aliSize=114 (resi) RMSD=1.11 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv-----  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNP-----yvpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.25 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV-v  -k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAVv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.64 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p>
	3di7A (124)			
335	1js0A (124)	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.38 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv-----  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAACQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p>SARST: aliSize=122 (resi) RMSD=6.25 (Å)</p> <p>k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV-v  -k-ETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAACQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAVv-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAACQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.59 (Å)</p> <p>KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV  KETAAAKFERQHMDSSSTAASSSNYCQMMKSRNLTKDRCKPVNTFVHESLADVOAACQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAV</p>
	3di8A (124)			



336	1js0A (124)	C	99.19	<p><b>TM-align: aliSize=114 (resi) RMSD=1.13 (Å)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv----- KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNF-----yvpvhfdasv</p> <p><b>SARST: aliSize=121 (resi) RMSD=5.50 (Å)</b> k-ETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS--sv -kETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv--</p> <p><b>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed: aliSize=124 (resi) RMSD=0.71 (Å)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
337	1js0A (124)	C	99.19	<p><b>TM-align: aliSize=115 (resi) RMSD=1.40 (Å)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv----- KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfdasv</p> <p><b>SARST: aliSize=121 (resi) RMSD=6.28 (Å)</b> ke--TAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS--v --keTAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p><b>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed: aliSize=124 (resi) RMSD=0.63 (Å)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>
338	1js0A (124)	C	99.19	<p><b>TM-align: aliSize=114 (resi) RMSD=1.08 (Å)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFyvpvhfdasv----- KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNF-----yvpvhfdasv</p> <p><b>SARST: aliSize=122 (resi) RMSD=6.23 (Å)</b> k-ETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDAS--v -kETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p><b>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed: aliSize=124 (resi) RMSD=0.61 (Å)</b> KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV KETAAAKFERQHMDSSSTSAASSSNYNQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>

339	<p>1js0A (124)</p> <hr/> <p>3rsdA (124)</p>	C	99.19	<p>TM-align: aliSize=114 (resi) RMSD=1.08 (Å)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y p v h f d a s v -----  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y -----y p v h f n a s v</p> <p>SARST: aliSize=122 (resi) RMSD=6.24 (Å)  k-ETAAAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S -v  -kETAAAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F N A S v-</p> <p>BLAST: aliSize=124 (resi) iden=99.19% (123/124) simi=100.00% (124/124)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F N A S V</p> <p>Proposed: aliSize=124 (resi) RMSD=0.62 (Å)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F N A S V</p>
340	<p>1js0A (124)</p> <hr/> <p>3rskA (124)</p>	C	97.58	<p>TM-align: aliSize=115 (resi) RMSD=1.34 (Å)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y p v h f d a s v -----  KETA A A F E A Q H M D S S T A A A S S S N Y C N O M M K S R N L T K D R C K P V N T F V H E S L A D V O A V C S Q K N V A C A N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y -----v p v h f d a s v</p> <p>SARST: aliSize=122 (resi) RMSD=6.22 (Å)  k-ETAAAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S -v  -kETAA A F E A Q H M D S S T A A A S S S N Y C N O M M K S R N L T K D R C K P V N T F V H E S L A D V O A V C S Q K N V A C A N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S v-</p> <p>BLAST: aliSize=121 (resi) iden=97.58% (121/124) simi=97.58% (121/124)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V  KETA A A F E A Q H M D S S T A A A S S S N Y C N O M M K S R N L T K D R C K P V N T F V H E S L A D V O A V C S Q K N V A C A N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V</p> <p>Proposed: aliSize=124 (resi) RMSD=0.53 (Å)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V  KETA A A F E A Q H M D S S T A A A S S S N Y C N O M M K S R N L T K D R C K P V N T F V H E S L A D V O A V C S Q K N V A C A N G O T N C Y O S Y S T M S I T D C R E T G S S K Y P N C A Y K T T Q A N K H I I V A C E G N P Y P V P V H F D A S V</p>
341	<p>1js0A (124)</p> <hr/> <p>3rspA (124)</p>	C	99.19	<p>TM-align: aliSize=115 (resi) RMSD=1.41 (Å)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y p v h f d a s v -----  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y -----v p v h f d a s v</p> <p>SARST: aliSize=122 (resi) RMSD=6.23 (Å)  k-ETAAAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S -v  -kETAAAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S v-</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V</p> <p>Proposed: aliSize=124 (resi) RMSD=0.69 (Å)  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V  KETA AAKFERQHMDSSSTAAASSSNYCNO MMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEG N P Y P V P V H F D A S V</p>

342	<p>1js0A (124)</p> <p>4rsdA (124)</p>	C	<p>99.19</p> <p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.41 (Å)  KETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYvpvhfdasv-----  KETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPY-----vpvhfaasv</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=6.24 (Å)  k-ETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHEDAS-v  -kETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHEDASv-</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHEDASV  KETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHEDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.72 (Å)  KETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHEDASV  KETAAAKFERQHMDSSSTAASSSNYCNOQMMKSRNLTKDRCKPVNTFVHESLADVOAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHEDASV</p>
343	<p>1lgqA (112)</p> <p>1qu5A (182)</p>	C	<p>19.64</p> <p><b>TM-align:</b> aliSize=74 (resi) RMSD=2.63 (Å)  -----MOPWGRILRIGaeg---EPHVLLR--KREWTIGRRRGDLSEFPsNKLVSGDHCRIVVDeKS-----GOVTLEDISTSGTVINKL-----L-----KVVkqTcplqtgdviylvyrkne  eaetreqllhsntenvksskkkgNGRFLTKPDPD---siiQESLEIQqgVNPFFIGRSEDNCKIE-DNRLSRVIGCFIFKK-RHavgksmyespaqgDDIWyCHIGTNSYLNnrmigtkfllqdgDeikiidkknkfvigfveindttglfneglmlQE---Q-----</p> <p>pehnavaylesl-----  -----rvvlkqtaeekdlvkl</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=15.61 (Å)  mqpwgr-----LRLGA---EEGEPHVLLRKRWTIGRRRGDLSEFPsNKLVSGDHCRIVVDeKS-----LISGDHCRIVVDEKsGOVTLEDISTSGTVINKLVVKKOTCPLOTGIVYLVYRknePEHNAVAYLYES-----  -----eaetreqllhsntenvksskkkgngfrfTLKPLpdsiiQESLEIQqgVNPFFIGRSEDNCKIE-DNRLSRVIGCFIFKKRHAAGKSMYSPAQGL-DDIWyCHIGTNSYLNnrmigtkfllqdgDeikiidkknkfvigfveindttglfneglmlqeqrsvlkqtaeekdlvk</p> <p>--1s  kl--</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=21.43% (24/112) simi=34.82% (39/112)  mqpwgrllrlgaegephvllrkrewt-----IGRRRGDLSEFPsNKLVSGDHCRIVVDeKS-----LISGDHCRIVVDEKsGOVTLEDISTSGTVINKLVVKKOTCPLOTGIVYLVYRknePEHNAVAYLYES-----  -----eaetreqllhsntenvksskkkgngfrfTLKPLpdsiiQESLEIQqgVNPFFIGRSEDNCKIE-DNRLSRVIGCFIFKKRHAAGKSMYSPAQGL-DDIWyCHIGTNSYLNnrmigtkfllqdgDeikiidkknkfvigfveindttglfneglml</p> <p>-----epehnavaylesl  qeqrsvlkqtaeekdlvkl-----</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=1.87 (Å)  -----MOPWGRILRIGaeg---AeegpHVLLR--KREWTIGRRRGDLSEFPsNKLVSGDHCRIVVDeKS-----GOVTLEDISTSGTVINKLVVKKOTCPLOTGIVYLVYRknePEHNAVAYLYES-----  eaetreqllhsntenvksskkkgNGRFLTKPDPD---siiQESLEIQqgVNPFFIGRSEDNCKIE-DNRLSRVIGCFIFKK-RHavgksmyespaqgDDIWyCHIGTNSYLNnrmigtkfllqdgDeikiidkknkfvigfveindttglfneglmlqeqrsvlkqtaeekdlvkl</p>
344	<p>1lr5A (160)</p> <p>1dgwA (178)</p>	C	<p>10.63</p> <p><b>TM-align:</b> aliSize=127 (resi) RMSD=3.04 (Å)  scvrd--SLVRDIsOMPOSSYGIeGLSHITVAGAlNHG-----MKEVEWLOTISPGORTPIHRHSCEEVFTVlKKGTLMGSSsSLkypgaPOEIPFFNTTFSIPVNDPHOVWNSDEHEDLOVVIISR---PPAKIILYDDwsmhta-----AVLkfnf-----  -----nPYLFRS-NKFLTLFKNOHGSLRLLQRFNedTEklenLRDYRLEYCSKNTLLLP--HSDSDLLVLEGAQIIVLVN-PD---RDTYKLDGDAIKQAGTFYLIIPDNNQNRIRKFAITfrrpGTVEDFLLSS-----tkrlpSYL---safsknfl easyds pydeieqtllq</p> <p>----Vwdedcfeak-----  eeqG-----vivkmp</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=5.55 (Å)  scvrdnsL---VRDISOMP--QSSYGIeGLSHITVA--GALNHGMKEVEWLOTISPGORTPIHRHSCEEVFTVlKKGTLMGSSsSLkypgaPOEIPFFNTTFSIPVNDPHOVWNSDEHEDLOVVIISR---SRPPAKIILYDDwSMPHAAVL-----  -----nnpYLFRSNKFLTLFKNOHGSLRLLQRFNedTEklenLRDYRLEYCSKNTLLLP--HSDSDLLVLEGAQIIVLVNPDG---RDTYKLDGDAIKQAGTFYLIIPDNNQNRIRKFAITfrrpGTVEDFLLSS-----LSSTKRLPSYLSafsknfl easyds pydeieqtllqeeqg</p> <p>-----kpfvwdedcfeak  vivkmp-----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=5.62% (9/160) simi=6.88% (11/160)  scvrdnslvrdisqmpqssygieglshitvagalnmgmkevevwlqtispgqrtpihrsceevftvlkgkgtllmgssslkypgaqoeipffnttfsipvnd-----PHqvwNSdehEDLOVVI-----  -----nnpylfrsnkfltlfknqhgslrlqrfnedteklenlrdyrvleycskntlllp--HSDSDLLVLEGAQIIVLVNPDG---RDTYKLDGDAIKQAGTFYLIIPDNNQNRIRKFAITfrrpGTVEDFLLSS-----LSSTKRLPSYLSafsknfl easyds pydeieqtllqeeqg</p> <p>-----isrppakiilyddwsmhtaavlkpfvwdedcfeak</p> <p><b>Proposed:</b> aliSize=140 (resi) RMSD=2.32 (Å)  scvrdn--SLVRDIsOMPOS-sYGIeGLSHITVaGAlNH-G-----MKEVEWLOTISPGORTPIHRHSCEEVFTVlKKGTLMGSSsSLkypgaPOEIPFFNTTFSIPVNDPHOVWNSDEHEDLOVVIISR---PPAKIILYDDwSMPHAAVL-----  -----nnpYLFRS-NKFLTLFKNOHGSLRLL-QR--FnEdteklenLRDYRLEYCSKNTLLLP--HSDSDLLVLEGAQIIVLVN-PD---RDTYKLDGDAIKQAGTFYLIIPDNNQNRIRKFAITfrrpGTVEDFLLSS-----LSSTKRLPSYLSafsknfl easyds pydeieqtllqeeqg</p> <p>EDcFEaak  IV-KM--P</p>

345	1lr5A (160)	N	8.13	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=2.76 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<del>hgm-----</del>-----KEVEVWLOTISPGORTPIHRH---SCEEVFTVLKIKGTLIMGSS---SLKYPGqPOEIPFFQ--NTTFSIPVNDPQOVWNSDeHEDLOVLVISRPPA--KIFLYD--  -----mmiviktaipdvliilepkvfgdergffesynqqtfeeli<del>grkvtfvQDNHsksknVLRGLFQRgenAQQKLVRCaVLEVFDVAVDIrkEPTFGQWGVNLSaenKRQLWIEGFAIGFVTLSE</del>---YAEFLYKATNYYSPSEGSILW</p> <p>W-S-----MPHTAAVlkfpvwdedcfeak--  NDeAigiewpfsqplpelsakdaaapLDQL-----te</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=5.31 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<del>gmkev-----</del>-----EVWLOTISPGORTPIHRHSC---EEVFTVLKIKGTLIMGSS--SLKYPGqPOEIPFF--ONTTFSIPVNDPQOVWNSDehedLOVLVISRPPA---IFL  -----mmiviktaipdvliilepkvfgdergffesynqqtfeeli<del>grkvtfvQDNHsksknVLRGLFQRGenagKLVRCaVLEVFDVAVDIrkESPTFGQWGVNLSaenKRQLWIEGFAIGFVTLSE</del>---YAEFLYKATNYYSPSEGS</p> <p>YdN SMPHTAAVlkfpvwdedcfeak  I-LNDEAIGIEWpfsqplpelsakdaaaplldqalte-----</p>
	1dzaA (183)			<p><b>BLAST:</b> aliSize=17 (resi) iden=5.00% (8/160) simi=10.62% (17/160)  scvrdnslvrdisqmpqssygieglshltvagaln<del>gmkev-----</del>-----EVWLOTISPGORTPIHRHSC---EEVFTVLKIKGTLIMGSS--SLKYPGqPOEIPFF--ONTTFSIPVNDPQOVWNSDehedLOVLVISRPPA---IFL  -----mmiviktaipdvliilepkvfgdergffesynqqtfeeli<del>grkvtfvQDNHsksknVLRGLFQRGenagKLVRCaVLEVFDVAVDIrkESPTFGQWGVNLSaenKRQLWIEGFAIGFVTLSE</del>---YAEFLYKATNYYSPSEGS</p> <p>-----FNTTFSIPVNDPQOVWNSDehedLOVLVISRPPA-----iflyddwsmphaaVlkfpvwdedcfeak  wgvnlsaenkrqlwipiegfhgfvltseyaeFlYKATNYYSPSEGSILW--DEAIGIEWPFSQPLPESLWdaaaplldqalte-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.39 (Å)  SCVRD-<del>---nSLVRDISQMPQSSYGIIE---GLSHIT---vaGALNHGMKE--</del>EVWLOTISPGORTPIHRH---SCEEVFTVLKIKGTLIMGSS---LkyPGqPOEIPFFQ--NTTFSIPVNDPQOVWNSDeHEDLOVLVISRPPA--KIFLYD--DW-S-----MP  MMIVIKtai-PD-VLI--LEPKV-F-GdergFFESynqqt--FEELI<del>GRKvtfvQDNHsksknVLRGLFQRgenAQQKLVRCaVLEVFDVAVDIrkEPTFGQWGVNLSaenKRQLWIEGFAIGFVTLSE</del>---YAEFLYKATNYYSPSEGSILWDeAigiewpfsqplpelsakdaaaplLD  htAAV--lkfpvwdedcfeak  --QLlte-----</p>
346	1lr5A (160)	N	8.13	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.75 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<del>hgm-----</del>-----EVEVWLOTISPGORTPIHRH---SCEEVFTVLKIKGTLIMGSS---SLKYPGqPOEIPFFQ--NTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--  -----efriktsldgaiiepevytderygymetfneai<del>fqenglevrfVQDNESMSVRVLRGLFQRekPQGKLVRIKGEIFDVAVDLrknDITYGE-WTGVRlSDenRREIEGFAIGFLALSD</del>---DECI-NYKCTELYHpeYDSGIPW</p> <p>W-S-----MPHTAAVlkfpvwdedcfeak--  DpDigidwplemvddliisekdrnwklRENpyl-----yl</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=9.60 (Å)  scvrdnslvrdisqm-----POSSYgiEGLSHITVAGALN---HGMKEV---EVWLOTISPGORTPIHRH---CEEVFTVLKIKGTLIMGSSSLKYPGqPOEIPFFQ--NTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--DW-S-----MP  -----efriktsldgaiiepevyTDER-----YFMEtFNEAI<del>fqenglevrfVQDNESMSVRVLRGLFQRekPQGKLVRIKGEIFDVAVDLrknDITYGE-WTGVRlSDenRREIEGFAIGFLALSD</del>---ECIVNYKCTELYHpeYDSGIPWddpDigidwplemvddliise</p> <p>-----iflyddwsmphaaVlkfpvwdedcfeak  kdrnwklrenpyl-----</p>
	1ep0A (183)			<p><b>BLAST:</b> aliSize=5 (resi) iden=2.50% (4/160) simi=3.12% (5/160)  scvrdnslvrdisqmpqssygieglshltvagaln<del>hgmkev-----</del>-----EVWLOTISPGORTPIHRHSC---EEVFTVLKIKGTLIMGSS--SLKYPGqPOEIPFFQ--NTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--DW-S-----MP  -----efriktsldgaiiepevyTDER-----YFMEtFNEAI<del>fqenglevrfVQDNESMSVRVLRGLFQRekPQGKLVRIKGEIFDVAVDLrknDITYGE-WTGVRlSDenRREIEGFAIGFLALSD</del>---ECIVNYKCTELYHpeYDSGIPWddpDigidwplemvddliise</p> <p>-----iflyddwsmphaaVlkfpvwdedcfeak  dtygeWtVrlSDenrreffipeghflalsdecivnykctelyhpeYDSGIPWddpDigidwplemvddliisekdrnwklrenpyl-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.30 (Å)  scvrdns-----LVRDisqMPOSS-ygiEGLSHITVAGALNHG---MKEVEVWLOTISPGORTPIHRH---SCEEVFTVLKIKGTLIMGSS---LkyPGqPOEIPFFQ--NTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--DW-S-----MP  --EFRFIktsldgaIIIE--PEVYtD---RGYFMEtFNEAI<del>fqenglevrfVQDNESMSVRVLRGLFQRekPQGKLVRIKGEIFDVAVDLrknDITYGE-WTGVRlSDenRREIEGFAIGFLALSD</del>---DECI-NYKCTELYHpeYDSGIPWddpDigidwplemvddliisekdrnwklRENpyl</p> <p>HT--aavlkfpvwdedcfeak  enPvyll-----</p>
347	1lr5A (160)	N	4.38	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.68 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<del>hgm-----</del>-----KEVEVWLOTISPGORTPIHRHSCEEVFTVLKIKGTLIMGSS-S-SLKYPGqPOEIPFFQNTTFSIPVNDPQOVWNSDeHEDLOVLVISRPPA---KIFLYD--  -----nffgkllaarpveaipgmlefdipvhgdnrgwfkenfqkekmlpl<del>gfpsffaeGKLNQNVSFsrkNVLRLGIAEPWDKYSISADgKVLGTWVDIReGETFGN-TYQTVI DASKSIFVIRGVANGFQVLSDFVAYSylLVNDYWalElkpk</del>YAfvnyadsLdikwenleaeavseadenhpflkdvkplrkedi</p> <p>-----SM-PHTAAVlkfpvwdedcfeak-----  kYAfvnyadsLdikwenleaeavseadenhpflkdvkplrkedi-----</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.92 (Å)  scvrdnslvrdisqmpqssyglshltvagaln-----A-NHGM-----KEVEVWLOTISPGORTPIHRHSC---EEVFTVLKIKGTLIMGSS--SLKYPGqPOEIPFFONTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--DW-S-----MP  -----nffgkllaarpveaipgmlefdipvhgdnrgwfkenfqkekMLPLGfPESffaeGKLNQNVSFsrkNVLRLGIAEPWDKYSISADgKVLGTWVDIReGETFGN-TYQTVI DASKSIFVIRGVANGFQVLSDFVAYSylLVNDYWalElkpkYAfvnyadsLdikwenleaeavseadenhpflkdvkplrkedi</p> <p>-----iflyddwsmphaaVlkfpvwdedcfeak  nleaeavseadenhpflkdvkplrkedi-----</p>
	1nxmA (194)			<p><b>BLAST:</b> aliSize=6 (resi) iden=3.12% (5/160) simi=3.75% (6/160)  scvrdnslvrdisqmpqssygieglshltvagaln<del>hgmkev-----</del>-----EVWLOTISPGORTPIHRHSC---EEVFTVLKIKGTLIMGSS-S-SLKYPGqPOEIPFFONTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--DW-S-----MP  -----nffgkllaarpveaipgmlefdipvhgdnrgwfkenfqkekMLPLGfPESffaeGKLNQNVSFsrkNVLRLGIAEPWDKYSISADgKVLGTWVDIReGETFGN-TYQTVI DASKSIFVIRGVANGFQVLSDFVAYSylLVNDYWalElkpkYAfvnyadsLdikwenleaeavseadenhpflkdvkplrkedi</p> <p>-----FNTTFSIPVNDPQOVWNSDehedLOVLVISRPPA-----iflyddwsmphaaVlkfpvwdedcfeak  etfgntYqTVIDASKSIFVIRGVANGFQVLSDFVAYSylLVNDYWalElkpkYAfvnyadsLdikwenleaeavseadenhpflkdvkplrkedi-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.45 (Å)  SCVRDNS-----LVRDISQMPQSSYGIIE---GLSHIT---vaGALNHGMKE--<del>-----</del>EVWLOTISPGORTPIHRHSC---EEVFTVLKIKGTLIMGSS-S-SLKYPGqPOEIPFFONTTFSIPVNDPQOVWNSDehedLOVLVISRPPA--KIFLYD--DW-S-----MP  nffgkllaarpveaipgmlefdipvhgdnrgwfkenfqkekMLPLGfPESffaeGKLNQNVSFsrkNVLRLGIAEPWDKYSISADgKVLGTWVDIRegETFGN-TYQTVI DASKSIFVIRGVANGFQVLSDFVAYSylLVNDYWalElkpkYAfvnyadsLdikwenleaeavseadenhpflkdvkplrkedi</p> <p>HT--aavlkfpvwdedcfeak  nhpflkdvkplrkedi-----</p>

348	1lr5A (160)  1wa4A (205)	N	<p>9.38</p> <p><b>TM-align:</b> aliSize=103 (resi) RMSD=2.73 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----KEVEVWLOTISPGORTPIHRH---SCEEVFTVLKKGTLMGSSSLKY--PGPOEIPFF--NTTFSIPVNDPQOVWNSDeHEDLQVLVITSRPPA--KIFLYD---  -----mqarklavdgaieftprvfaddrglilipyqea<b>fveahggplfrvaQT</b>IHSMSKRGVVRGIIYTVtppGTAKYVYCARGKAMDIVIDIRVGSptfGQWDSVLMdqPRAVYLPVGVGAFVA-L-EDITVFSYMASRSYVtqDELALsal</hgm></p> <p>-----D-DWSPMH--TAAVlkfpfvwdedcfeak-----  dpalglpidigvepivsdrrvAiTLAEARqGGL-----pdyttsqeierrltavpvst</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=10.37 (Å)  scvrdnslvrdisq-----MPOSSYIegLSHITVAGALN---HG---MKEVEVWLOTISPGORTPIHRHS---CEEVFTVLKKGTLMGSSSLKY--GPOEIPFF--ONTTFSIPVNDPQOVWNSdehEDLQVLVITSRPPAK---IFLYDWSMHTAAV-----  -----mqarklavdgaieftprVFADDR-----LLLPYQEEA<b>fveahggplfrvaQT</b>IHSMSKRGVVRGIHYTVtppGTAKYVYCARGKAMDIVIDIRVGSptfGQWDSVLMdqPRAVYLPVGVGAFVAL---EDITVFSYMASRSYVtqDELAL-SALDIALGLpidigvepivsd</p> <p>-----lkfpfvwdedcfeak  rdrvaitlaeaqrqglpdyttsqeierrltavpvst-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=2.50% (4/160) simi=4.38% (7/160)  scvrdnslvrdisqmpqs-----mqarklavdgaieftprvfaddrglilipyqea<b>fveahggplfrva</b>qt ihsmskrvgvrgihytvppgtakyvyargkamdividivrgsptfgqwsvlmdqqdpravylpvgvghafvaldedtvt<b>SyIEGLSHIT</b>-----  -----vagaln<hgmke< hgm="">evwlqtispgqrtpihrsceevftvlkkgkgtllmgssslkyppgqpeipffqnttfsipvndphqvnsdehedlqvlviisrppakiflyddwsmhtaavlkfpfvwdedcfeak  vaitlaeaqrqglpdyttsqeierrltavpvst-----</hgmke<></p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.43 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----MK-E-VEVWLOTISPGORTPIHRH---SCEEVFTVLKKGTLMGSS-S--LkyPGqPOEIPFF--NTTFSIPVNDPQOVWNSDeHEDLQVLVITSRPPA--KIFLYD---W-----SMP-H  -----MQARKlavdgaIEF--TPRVFA--DDRGLLLPYQEEA<b>fveahggplfrvaQT</b>IHSMSKRGVVRGIIYTVtppGTAKYVYCARGKAMDIVIDIRVGSptf--GQ-WDSVLMdqPRAVYLPVGVGAFVA-L-EDITVFSYMASRSYVtqDELALSalDpaLglpidigvepivsdrrvAITLAEa</hgm></p> <p>T-A-A-----vlfkfpfvwdedcfeak  QrQgLLpdyttsqeierrltavpvst-----</p>
349	1lr5A (160)  2ix1A (196)	N	<p>5.63</p> <p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.50 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----KEVEVWLOTISPGORTPIHRHSCCEEVFTVLK--GTLTLMGSS---SLkyPGqPOEIPFFONTTFSIPVNDPQOVWNSDeHEDLQVLVITSRPPA--KIFLYD---W-----SMP-H  -----tenffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOV-L-SDFVAYSYLVDYWAlel</hgm></p> <p>---IFLYD---W-----SMP-HTAAVlkfpfvwdedcfeak-----  elkpkYAFVnyapsLdikwenleaevseadenhpFLKdVKPL-----rkedl</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=8.06 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----LSHITVAG---ALN<hgm>-----KEVEVWLOTISPGORTPIHRHSCCEEVFTVLK--GTLTLMGSS--LKYPGqPOEIPFFONTTFSIPVNDPQOVWNSDehedLOVLVITSRPPAK-----  -----tenffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOVLSDFVAYSYLVDYWAlel</hgm></hgm></p> <p>-----iflyddwsmhtaavlkfpfvwdedcfeak  dikwenleaevseadenhpflkdvkplrkedl-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=3.12% (5/160) simi=3.75% (6/160)  scvrdnslvrdisqmpqssygieglshltvagaln<hgmke< hgm="">evwlqtispgqrtpihrsceevftvlkkgkgtllmgssslkyppgqpeip-----ONTTFSIPVNDPQOVWNSDehedLOVLVITSRPPAK-----  -----tenffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOVLSDFVAYSYLVDYWAlel</hgmke<></p> <p>-----ndphqvnsdehedlqvlviisrppakiflyddwsmhtaavlkfpfvwdedcfeak  egtfngtyqtvidasksvfprgvangfvlsdfvaysylvndywalelkpkYAFVnyapsLdikwenleaevseadenhpflkdvkplrkedl-----</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.53 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----MK-E-VEVWLOTISPGORTPIHRHSCCEEVFTVLK--GTLTLMGSS-S-LkyPGqPOEIPFFONTTFSIPVNDPQOVWNSDeHEDLQVLVITSRPPA--KIFLYD---W-----SMP-H  -----tenffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOVLSDFVAYSYLVDYWAlel</hgm></p> <p>---SMP-HT-----aavlkfpfvwdedcfeak  nhpFLKdVKplrkedl-----</p>
350	1lr5A (160)  2ix1B (195)	N	<p>5.63</p> <p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.65 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----KEVEVWLOTISPGORTPIHRHSCCEEVFTVLK--GTLTLMGSS-S-SLkyPGqPOEIPFFONTTFSIPVNDPQOVWNSDeHEDLQVLVITSRPPA--KIFLYD---W-----SMP-H  -----enffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOV-L-SDFVAYSYLVDYWAlel</hgm></p> <p>---IFLYD---W-----SMP-HTAAVlkfpfvwdedcfeak-----  pkYAFVnyapsLdikwenleaevseadenhpFLKdVKPL-----rkedl</p> <p><b>SARST:</b> aliSize=101 (resi) RMSD=10.05 (Å)  scvrdnslvrdisq-----POSSYIegLSHITVAG---ALN<hgm>-----KEVEVWLOTISPGORTPIHRHSCCEEVFTVLK--GTLTLMGSS-S-SLkyPGqPOEIPFFONTTFSIPVNDPQOVWNSDehedLOVLVITSRPPAK-----  -----enffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOVLSDFVAYSYLVDYWAlel</hgm></p> <p>-----iflyddwsmhtaavlkfpfvwdedcfeak  dikwenleaevseadenhpflkdvkplrkedl-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=3.12% (5/160) simi=3.75% (6/160)  scvrdnslvrdisqmpqssygieglshltvagaln<hgmke< hgm="">evwlqtispgqrtpihrsceevftvlkkgkgtllmgssslkyppgqpeip-----ONTTFSIPVNDPQOVWNSDehedLOVLVITSRPPAK-----  -----enffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOVLSDFVAYSYLVDYWAlel</hgmke<></p> <p>-----ndphqvnsdehedlqvlviisrppakiflyddwsmhtaavlkfpfvwdedcfeak  getfgntytvidasksvfprgvangfvlsdfvaysylvndywalelkpkYAFVnyapsLdikwenleaevseadenhpflkdvkplrkedl-----</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.58 (Å)  scvrdnslvrdisqmpqssygieglshltvagaln<hgm>-----MK-E-VEVWLOTISPGORTPIHRHSCCEEVFTVLK--GTLTLMGSS-S-SLkyPGqPOEIPFFONTTFSIPVNDPQOVWNSDeHEDLQVLVITSRPPA--KIFLYD---W-----SMP-H  -----enffgkllaarpveaipgmlefdipvhgdnrgwfenfqekm<b>lplgfpesffaeGKLQNNVSFSRKNVLRGLAEPWDKYISADGKVLGTWVD</b>lRegeTF--GN-TYQTVIDASKSIFVIRGVANGFOVLSDFVAYSYLVDYWAlel</hgm></p> <p>---SMPHT-----aavlkfpfvwdedcfeak  pFLKdVKplrkedl-----</p>

351	1lr5A (160)	N	3.75	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.66 (Å)  scvrdnslvrdisqmpqssygieglshittvagaln<hgm-----kevevwlotispgortpirhscfevftv lk-kgtlmgss-s-slkypgqpoeipffonttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmph-taavlkpfvwdedcfeak-----<="" p=""> <p>-----mtenfkgkllaarpveaipgmlefdipvhgdnrgwkenfqqekmlplgfpesffaeGKLQNNVFSRKNVLRGLAEPWDKYISADGKVLGTWVDLREGETfGNTYQTVIDASKSIFVIRGVANGFQVLSDFVAYSYLVDYDWleLkpkYAFVnyadpsldikwenleeaevseadenhpflkdvkplrkedl</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=9.88 (Å)  scvrdnslvrdisq-----MPOSSYIEGLSHITVAG--ALN<hgmke-----vevwlotispgortpirhscfevftv lk-kgtlmgssslkyp--gpoeipffonttfsipvndphovwnsdehedlovlviisrppakiflyddwsmph-taavlkpfvwdedcfeak-----<="" p=""> <p>-----mtenfkgkllaarpveaipgmlefdipVHGDNR-----WFKENFQKEKMLPLGFPesffaeGKLQNNVFSRKNVLRGLAEPWDKYISADGKVLGTWVDLREGETfGNTYQTVIDASKSIFVIRGVANGFQVLSDFVAYSYLVDYDW-----ALEL-KPKYAFVnyadpsldikwenleeaevseadenhpflkdvkplrkedl</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=3.12% (5/160) simi=3.75% (6/160)  scvrdnslvrdisqmpqssygieglshittvagaln<hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipv-----< p=""> <p>-----mtenfkgkllaarpveaipgmlefdipvhgdnrgwkenfqqekmlplgfpesffaeGKLqnnvsvsrknvlrglhaepwdkyisvaggkvlgtwvdlndphqvnwshedhdqlvliisrppakiflyddwsmph-taavlkpfvwdedcfeak</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.81 (Å)  scvrdnslvrdisq-----LVRDisOMPOSSYIEGLSHITVAGALNHGMKEVEVWLOTISPGORTPIRHSCFEVFTV LK-KGTLMGSSSL--kypGqPOEIPFFON-TTFSIPVNDPHOVWNSDeHEDLQVLVIISRPPA--KIFLYddWsmPH-TAavlkpfvwdedcfeak-----</p> <p>-----mtenfkgkllaarpveaipgmlefdipVHGDNR-----WFKENFQKEKMLPLGFPesffaeGKLQNNVFSRKNVLRGLAEPWDKYISADGKVLGTWVDLREGETfGNTYQTVIDASKSIFVIRGVANGFQVLSDFVAYSYLVDYDWleLkpkYAFVnyadpsldikwenleeaevseadenhpflkdvkplrkedl</p> </hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipv-----<></p></hgmke-----vevwlotispgortpirhscfevftv></p></hgm-----kevevwlotispgortpirhscfevftv></p>
352	1lr5A (160)	N	11.94	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.64 (Å)  scvrdnslvrdisqmpqssygieglshittvagaln<hgm-----kevevwlotispgortpirhscfevftv lk-kgtlmgssslkypgqpoeipffon-ttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmph-taavlkpfvwdedcfeak-----<="" p=""> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=13.33 (Å)  scvrdnslvrdisqm-----POSYYIEGLSHITVAGALNHGMKEVEVWLOTISPGORTPIRHSCFEVFTV LK-KGTLMGSSSLkypGqPOEIPFFONTTFSIPVNDPHOVWNSDeHEDLQVLVIISRPPAKiflyddwsmphTAAVLKFPFVWDEDCFEAAK</p> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=9.70% (13/134) simi=15.67% (21/134)  scvrdnslvrdisqmpqssygieglshittvagaln<hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppakiflyddwsmph-taavlkpfvwdedcfeak-----< p=""> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=2.38 (Å)  scvrdnslvrdisqmpqssygieglshittvagaln<hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmph-taavlkpfvwdedcfeak-----< p=""> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> </hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmph-taavlkpfvwdedcfeak-----<></p></hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppakiflyddwsmph-taavlkpfvwdedcfeak-----<></p></hgm-----kevevwlotispgortpirhscfevftv></p>
353	1lr5A (160)	C	11.94	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.64 (Å)  scvrdnslvrdisqmpqssygieglshittvagaln<hgm-----kevevwlotispgortpirhscfevftv lk-kgtlmgssslkypgqpoeipffon-ttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmph-taavlkpfvwdedcfeak-----<="" p=""> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=13.33 (Å)  scvrdnslvrdisqm-----POSYYIEGLSHITVAGALNHGMKEVEVWLOTISPGORTPIRHSCFEVFTV LK-KGTLMGSSSLkypGqPOEIPFFONTTFSIPVNDPHOVWNSDeHEDLQVLVIISRPPAKiflyddwsmphTAAVLKFPFVWDEDCFEAAK</p> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=9.70% (13/134) simi=15.67% (21/134)  scvrdnslvrdisqmpqssygieglshittvagaln<hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppakiflyddwsmph-taavlkpfvwdedcfeak-----< p=""> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.04 (Å)  scvrdnslvrdisqmpqssygieglshittvagaln<hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmphtaavlkfpfvwdedcfeaak< p=""> <p>-----enkvinfkkiidsrgslvaieenknipfSIKRVYIFdTKGEEPRGFHAkkLQVLCNGSCRVIDDGN-----I-IQETLDSPaVGLYVGPVAVWEMHDFSSDCVMMVLA--SDYYD-----ETDYIRQYDNFKKYIAKINL</p> </hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppa--kiflyddwsmphtaavlkfpfvwdedcfeaak<></p></hgmkevevwlqtsipgqprtphrshsceevftvlkkgkgtllmgssslkypgqpeip-----eonttfsipvndphovwnsdehedlqvlviisrppakiflyddwsmph-taavlkpfvwdedcfeak-----<></p></hgm-----kevevwlotispgortpirhscfevftv></p>

354	1l5A (160)	N	11.03	<p><b>TM-align: aliSize=95 (resi) RMSD=2.77 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghm-----KQEVWLOT-ISPGRTPHRL-SCHEVFTVKKKGTLLMGSSSLkypGqPOEIPFFONTTFSTIPVNDPFOVWNSDeHEFLQVLIISRP--KIFLYDwsMPH-TAAvlfpfvwdedc  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGN-----I-IOEITLDSpaVGLYVGPavwEMHDF-SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKYI-----</p> <p>feaak-----  -----akinle</p> <p><b>SARST: aliSize=93 (resi) RMSD=15.81 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmkeve-----VWLOTSPG---ORTPIHRLSCHEVFTVKKKGTllmgssslkYPGQPDEIPFFONTTFSTIPVND--PHOVNSDEHedIOVLIISRPpAKIFLYddwSMpHTAAVLKF---PFVWDE-----  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNA-----HKKLEVLVCLNGSCRVLDDGniIOEITLDSpa--VGLYVGPavwEMHDF-SQCVMMVLasdyYDETDYLRQYdnfkkyyia</p> <p>-----edcfeaak  kinle-----</p> <p><b>BLAST: aliSize=32 (resi) iden=14.71% (20/136) simi=23.53% (32/136)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqp-----OEIIPFFONTTFSTIPVNDPFOVWNSDEHEFLQVLIISRPpAKIFLYD---DWSMPTHAAVLKF--PFVWDE-----  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGniIOEITLDSpaVGLYVGPavwEMHDF--SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKYImhdffs</p> <p>-----feaak  vmmvlasdydetdyirqydnfkkyyiakindle-----</p> <p><b>Proposed: aliSize=119 (resi) RMSD=2.39 (Å)</b></p> <p>scvrdsnslvrdisompoSSygiEGLSHITVAGA-LNHGMKQEVWLOT-ISPGRTPHRL-SCHEVFTVKKKGTLLMGSSSLkypgqpOEIIPFFONTTFSTIPVNDPFOVWNSDeHEFLQVLIISRPpAKIFLYDwsMPH-T-----aavlfkpfvwdedcfeaak  -----mENKVIN--FKKII-D-SRGLVA-IEENKNIPTSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGNI-----IOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKyiaKinde-----</p>
	2paeA (136)			<p>-----feaak  vmmvlasdydetdyirqydnfkkyyiakindle-----</p>

355	1l5A (160)	C	11.03	<p><b>TM-align: aliSize=95 (resi) RMSD=2.77 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghm-----KQEVWLOT-ISPGRTPHRL-SCHEVFTVKKKGTLLMGSSSLkypGqPOEIPFFONTTFSTIPVNDPFOVWNSDeHEFLQVLIISRP--KIFLYDwsMPH-TAAvlfpfvwdedc  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGN-----I-IOEITLDSpaVGLYVGPavwEMHDF-SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKYI-----</p> <p>feaak-----  -----akinle</p> <p><b>SARST: aliSize=93 (resi) RMSD=15.81 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmkeve-----VWLOTSPG---ORTPIHRLSCHEVFTVKKKGTllmgssslkYPGQPDEIPFFONTTFSTIPVND--PHOVNSDEHedIOVLIISRPpAKIFLYddwSMpHTAAVLKF---PFVWDE-----  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNA-----HKKLEVLVCLNGSCRVLDDGniIOEITLDSpa--VGLYVGPavwEMHDF-SQCVMMVLasdyYDETDYLRQYdnfkkyyia</p> <p>-----dcfeaak  kinle-----</p> <p><b>BLAST: aliSize=32 (resi) iden=14.71% (20/136) simi=23.53% (32/136)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqp-----OEIIPFFONTTFSTIPVNDPFOVWNSDEHEFLQVLIISRPpAKIFLYD---DWSMPTHAAVLKF--PFVWDE-----  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGniIOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKYImhdffs</p> <p>-----feaak  vmmvlasdydetdyiraydnfkkyyiakindle-----</p> <p><b>Proposed: aliSize=94 (resi) RMSD=2.02 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmk-----H-VEWLOT-ISPGRTPHRL-SCHEVFTVKKKGTLLMGSSSLkypgqpOEIIPFFONTTFSTIPVNDPFOVWNSDeHEFLQVLIISRPpAKIFLYDwsmpHTAAVLKfVWDE  -----menkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGNI-----IOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQ-----Y</p> <p>CFAAK-----  NKKYIakinle</p>
	2paeA (136)			<p>-----feaak  vmmvlasdydetdyiraydnfkkyyiakindle-----</p>

356	1l5A (160)	N	11.19	<p><b>TM-align: aliSize=94 (resi) RMSD=2.64 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghm-----KQEVWLOT-ISPGRTPHRL-SCHEVFTVKKKGTLLMGSSSLkypGqPOEIPFFONTTFSTIPVNDPFOVWNSDeHEFLQVLIISRP--KIFLYDwsMPH-TAAvlfpfvwdedcf  -----enkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGN-----I-IOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKYI-----</p> <p>eaak-----  -----iakinl</p> <p><b>SARST: aliSize=83 (resi) RMSD=3.55 (Å)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqpOEIIPFFONTTFSTIPVNDPFOVWNSDEHEFLQVLIISRPpAKIFLYddwSMpHTAAVLKfVWDE-----iflyddwsmp  -----enkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGNI-----IOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQYdnfkkyyiakindle-----</p> <p>htaavlfkpfvwdedcfeaak</p> <p><b>BLAST: aliSize=32 (resi) iden=14.93% (20/134) simi=23.88% (32/134)</b></p> <p>scvrdsnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqp-----OEIIPFFONTTFSTIPVNDPFOVWNSDEHEFLQVLIISRPpAKIFLYD---DWSMPTHAAVLKF--PFVWDE-----  -----enkvinfkiiidsrgslvaeenkniptSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGniIOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKYImhdffs</p> <p>-----feaak  vmmvlasdydetdyirqydnfkkyyiakindle-----</p> <p><b>Proposed: aliSize=118 (resi) RMSD=2.41 (Å)</b></p> <p>scvrdsnslvrdisompoSSygiEGLSHITVAGA-LNHGMKQEVWLOT-ISPGRTPHRL-SCHEVFTVKKKGTLLMGSSSLkypgqpOEIIPFFONTTFSTIPVNDPFOVWNSDeHEFLQVLIISRPpAKIFLYDwsMPH-T-----aavlfkpfvwdedcfeaak  -----eN-KVI--NFKKII--DSRGLVA-IEENKNIPTSIKRVYYIFdTKGEEPRGFNAKLEQVLCVNGSCRVLDDGNI-----IOEITLDSpaVGLYVGPavwEMHDFS--SQCVMMVLA-SYYDetDYLRQ-Y--DNFKKyiaKinde-----</p>
	2paeB (134)			<p>-----feaak  vmmvlasdydetdyirqydnfkkyyiakindle-----</p>

357	11r5A (160)  2paeB (134)	C	<p>11.19</p> <p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.64 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----KEVEVWLOT-ISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPDEIPFFON-TTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPA--KIFLYddWsmPH-TAavlkfpfvwde dcf  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----I-IOEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetDYIRQ--Y-DNFkKY-----</p> <p>eaak-----  ----iakinl</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=3.55 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----EVEVWLOTISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPOEIPFFONTTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPAK-----iflyddwsmP  -----enkvinfkkiidsrgslvaieenknipfsIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----IQEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA-----SDYYDetdyiraydnfkkyiakinl-----iflyddwsmP  htaavlkfpfvwde dcf eaak</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=14.93% (20/134) simi=23.88% (32/134)  scvrdnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqp-----OEIPFFONTTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPAKIFLYD---DWSMPHTAAVLKF-PFVWDE-----  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----IQEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA-----</p> <p>-----feak  vmmvlasdydetdyiraydnfkkyiakinl-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.04 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----EVEVWLOT-ISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPDEIPFFON-TTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPA--KIFLYddwsmPhtaavlkfpfvwde dcf  -----enkvinfkkiidsrgslvaieenknipfsIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----I-IOEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetDYIRQ-----Y-DNFkKY-----</p> <p>EAAK-----  KKYIakinl</p>
358	11r5A (160)  2pakA (135)	N	<p>11.11</p> <p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.59 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----KEVEVWLOT-ISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPDEIPFFON-TTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPA--KIFLYddWsmPH-TAavlkfpfvwde dcf  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----I-IOEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetDYIRQ--Y-DNFkKY-----</p> <p>eaak-----  ----iakinle</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=3.49 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----EVEVWLOTISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPOEIPFFONTTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPAKIFLY-----iisrppakifly  -----enkvinfkkiidsrgslvaieenknipfsIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----IQEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetdyiraydnfkkyiakinle-----</p> <p>ddwsmPhtaavlkfpfvwde dcf eaak</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=4.44% (6/135) simi=4.44% (6/135)  scvrdnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqpqepiffqnttfsipvndphqvwnsdehedlqvlviisrppakiflyddwsmPhtaavlkf-----  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----IQEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA-----</p> <p>-----feak  prgfhanckleqvlvcngscrviiddgniqeiitldspavglyvgPAVWHEMHDfSSDCVmmvlasdydetdyiraydnfkkyiakinle-----</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=2.33 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqpDEIPFFON-TTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPA--KIFLYddWsmPH-T-----aavlkfpfvwde dcf eaak  -----enKVI--NFKKI--DSRGLVA-IEEnKIPFSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----I-IOEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetDYIRQ--Y-DNFkKYiakinle-----</p>
359	11r5A (160)  2pakA (135)	C	<p>11.11</p> <p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.59 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----KEVEVWLOT-ISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPDEIPFFON-TTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPA--KIFLYddWsmPH-TAavlkfpfvwde dcf  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----I-IOEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetDYIRQ--Y-DNFkKY-----</p> <p>eaak-----  ----iakinle</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=3.49 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----EVEVWLOTISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPOEIPFFONTTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPAKIFLY-----iisrppakifly  -----enkvinfkkiidsrgslvaieenknipfsIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----IQEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetdyiraydnfkkyiakinle-----</p> <p>ddwsmPhtaavlkfpfvwde dcf eaak</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=4.44% (6/135) simi=4.44% (6/135)  scvrdnslvrdisqmpqssygieglshittvagalnghmkevevwlqtispgrtpihrsceevftvlgkgtllmgssslkypgqpqepiffqnttfsipvndphqvwnsdehedlqvlviisrppakiflyddwsmPhtaavlkf-----  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----IQEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA-----</p> <p>-----feak  prgfhanckleqvlvcngscrviiddgniqeiitldspavglyvgPAVWHEMHDfSSDCVmmvlasdydetdyiraydnfkkyiakinle-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.02 (Å)  scvrdnslvrdisqmpqssygieglshittvagalnghm-----EVEVWLOT-ISP GORTPIHRH-SCHEVFTVKKKGTLLMGSSSLkypGqPDEIPFFON-TTFSIPVNDPFOVWNSDEHEDLOVLV IISRPPA--KIFLYddwsmPhtaavlkfpfvwde dcf  -----enkvinfkkiidsrgslvaieenknipfsIKRVYYIFdTKGEEPRGFNAKkLQVLCVNGSCRVLDDGNI-----I-IOEITLDSPaVGLYVGPVAVWHEMHDfSSDCVMMVLA SDYYDetDYIRQ-----Y-DNFkKY-----</p> <p>EAAK-----  KKYIakinle</p>



360	11r5A (160)	N	11.19	<p>TM-align: aliSize=94 (resi) RMSD=2.61 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----KQVWVWLOT-ISPGRTPITRH-SCHEVFTVKKKGTLLMGSSS1kypGqPDEIPPFON-TTFSIPVNDPQOVWNSDEHEDLOVLIISRPPA--KIFLYddWsmPH-TAavlkpfpwdedcf  -----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGN-----I-IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYDeDYIRQ--Y-DNFkKY-----</p> <p>eaak-----  ----iakinl</p> <p>SARST: aliSize=122 (resi) RMSD=13.14 (Å)  scvrdnslvrdisq-----MPOSSYIEGLSHITVAGAlnhGMKEVEVWLOTISPGRTPITRHSCHEVFTVKKKGTLLMGSSSLkypGQOPEIPPFONTTFSIPVNDPQOVWNSDEHEDLOVLIISrppakiflyddwsMPHAAVLKfpfVWDEDCFEAA---k  -----enkvinfkKIIDSRSLVAIEENKNIP---FSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGN-----IOETLDSPAVGLYVGPVAVWEMHDFS--SDCVMMVLASDY-----YDETDYIRQ---YDNFKKYIKinl-</p> <p>BLAST: aliSize=6 (resi) iden=4.48% (6/134) simi=4.48% (6/134)  scvrdnslvrdisqmpqssygieglshltvagalnghmkevevwlqtispgrtpihrsceevftvlkgkgtllmgssslkypgqpeipffqnttfsipvndphqvnsdehedlqvlviisrppakiflyddwsmphtaavlkf-----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdtkgee  -----PFVWDEDC-----feak  prgfhanckleqlvclngscrviddgniqeiltldspavglyvgPAVWEMHDFS--SDCVMMVLASDYdeDYIRQYDNFKKYIAkinl-----</p> <p>Proposed: aliSize=117 (resi) RMSD=2.33 (Å)  scvrdnsl--VRDIsgMPOSSYIEGLSHITVAGA-LNHGMKEVEVWLOT-ISPGRTPITRH-SCHEVFTVKKKGTLLMGSSS-1kypgqPDEIPPFON-TTFSIPVNDPQOVWNSDEHEDLOVLIISRPPA--KIFLYddWsmPH--T-----aavlkfpfwdedcfeak  -----enKVIN--FKKII--DSRGLVA-IEENKIPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGNi-----IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYDeDYIRQ--Y-DNFkKYIAkinl-----</p>
361	11r5A (160)	C	11.19	<p>TM-align: aliSize=94 (resi) RMSD=2.61 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----KQVWVWLOT-ISPGRTPITRH-SCHEVFTVKKKGTLLMGSSS1kypGqPDEIPPFON-TTFSIPVNDPQOVWNSDEHEDLOVLIISRPPA--KIFLYddWsmPH-TAavlkpfpwdedcf  -----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGN-----I-IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYDeDYIRQ--Y-DNFkKY-----</p> <p>eaak-----  ----iakinl</p> <p>SARST: aliSize=122 (resi) RMSD=13.14 (Å)  scvrdnslvrdisq-----MPOSSYIEGLSHITVAGAlnhGMKEVEVWLOTISPGRTPITRHSCHEVFTVKKKGTLLMGSSSLkypGQOPEIPPFONTTFSIPVNDPQOVWNSDEHEDLOVLIISrppakiflyddwsMPHTAAVLKfpfVWDEDCFEAA---k  -----enkvinfkKIIDSRSLVAIEENKNIP---FSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGN-----IOETLDSPAVGLYVGPVAVWEMHDFS--SDCVMMVLASDY-----YDETDYIRQ---YDNFKKYIKinl-</p> <p>BLAST: aliSize=6 (resi) iden=4.48% (6/134) simi=4.48% (6/134)  scvrdnslvrdisqmpqssygieglshltvagalnghmkevevwlqtispgrtpihrsceevftvlkgkgtllmgssslkypgqpeipffqnttfsipvndphqvnsdehedlqvlviisrppakiflyddwsmphtaavlkf-----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdtkgee  -----PFVWDEDC-----feak  prgfhanckleqlvclngscrviddgniqeiltldspavglyvgPAVWEMHDFS--SDCVMMVLASDYdeDYIRQYDNFKKYIAkinl-----</p> <p>Proposed: aliSize=94 (resi) RMSD=2.04 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghmk-----EVEVWLOT-ISPGRTPITRH-SCHEVFTVKKKGTLLMGSSS-1kypgqPDEIPPFON-TTFSIPVNDPQOVWNSDEHEDLOVLIISRPPA--KIFLYddwsmphtaavlkfpfwdedcFEAC  -----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGNi-----I-IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYDeDYIRQ-----YDNFKKYIAkinl</p> <p>EAak-----  KkYIAkinl</p>
362	11r5A (160)	N	10.37	<p>TM-align: aliSize=94 (resi) RMSD=2.59 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----KQVWVWLOT-ISPGRTPITRH-SCHEVFTVKKKGTLLMGSSS1kypGqPDEIPPFON-TTFSIPVNDPQOVWNSDEHEDLOVLIISRPPA--KIFLYddWsmPH-TAavlkpfpwdedcf  -----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGN-----I-IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYDeDYIRQ--Y-DNFkKY-----</p> <p>eaak-----  ----iakinle</p> <p>SARST: aliSize=81 (resi) RMSD=5.68 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghmk-----EVEVWLOTISPGRTPITRHSCHEVFTVKKKGTLLMGSSSLkypGQOPEIPPFONTTFSIPVNDPQOVWNSDEHEDLOVLIIS-----rppakiflyddw  -----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGN-----IOETLDSPAVGLYVGPVAVWEMHDFS--SDCVMMVLASDYdeDYIRQYDNFKKYIAkinle-----</p> <p>smphataavlkfpfwdedcfeak  -----</p> <p>BLAST: aliSize=25 (resi) iden=8.89% (12/135) simi=18.52% (25/135)  scvrdnslvrdisqmpqssygieglshltvagalnghmkevevwlqtispgrtpihrsceevftvlkgkgtllmgssslkypgqpeipffqnttfsipvndphqvnsdehedlqvlviisrppakiflyddwsmphtaavlkf-----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdtkgee  -----enkvinfkkiidsrgslvaieenkniPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGNi-----IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYdeDYIRQYDNFKKYIAkinle-----</p> <p>sdvmmvlasdydeDYIRQYDNFKKYIAkinle-----</p> <p>Proposed: aliSize=119 (resi) RMSD=2.41 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghmk-----EVEVWLOT-ISPGRTPITRH-SCHEVFTVKKKGTLLMGSSS-1kypgqPDEIPPFON-TTFSIPVNDPQOVWNSDEHEDLOVLIISRPPA--KIFLYddWsmPH-T-----aavlkfpfwdedcfeak  -----enKVIN--FKKII--DSRGLVA-IEENKIPFSIKRVYYIFdTKGEEPRGFANANKLEQLVCLNNGSCRVIDDDGNi-----I-IOETLDSPaVGLYVGPVAVWEMHDFS--SDCVMMVLASDYDeDYIRQ--Y-DNFkKYIAkinle-----</p>
362	2pakB (134)			

363	1l5A (160)	C	10.37	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.59 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----K E V E W L O T - I S P G O R T P I H R H - S C E E F T V I K K G T L L M G S S S l k y p G a P O E I P F F O N - T T F S I P V N D P H O V W N S D e H E D L O V L V I I S R P P A - - K I F L Y d d w s M P H - T A a v l k f p f w d e d c f  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNANKKLEQVLCVNGSCRVLDDGNI-----I-IQEI TL DSPaVGLYVGPVAVWEMHDFS--SFCVMMVLA SDYYDe tDYIRQ--Y--DNFkKY-----</p> <p>eaak-----  ----iakinle</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=5.68 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----E V E W L O T I S P G O R T P I H R H S C E E F T V I K K G T L L M G S S S l k y p G O P O E I P F F O N T T F S I P V N D P H O V W N S D E H E D L O V L V I I S ----- r p p a k i f l y d d w  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I F D T K G E E P R G F N A N K K L E Q V L C V N G S C R V L D D G N I ----- I Q E I T L D S P A V G L Y V G P A V W E M H D F S S D C V M M V L A S D Y d e t d y i r q y d n f k k y i a k i n l e -----</p> <p><b>smph</b>taavlkfpfvwde dcf  -----</p>
	2pamA (135)			<p><b>BLAST:</b> aliSize=25 (resi) iden=8.89% (12/135) simi=18.52% (25/135)  scvrdnslvrdisqmpqssygieglshltvagalnghmkevevwlqtispgqrtpihrhsceevftvlkgkgtllmgssslkypgqp-----O E I P F F O N T T F S I - - P V N D P H O V W N S D E H E D I O V L V I I S r P P A K I F L Y D D -----  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I f d T K G E E P R G F N A N K K L E - O V L V C L N - G S C R V I I - D D g n i i q e i t l d s p a v g l y v g p a v w h e m h d f s</p> <p>-----wsmph</p> taavlkfpfvwde dcf ----- sdcvmmvlasdydetdyir q y d n f k k y i a k i n l e ----- <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.01 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----E V E W L O T - I S P G O R T P I H R H - S C E E F T V I K K G T L L M G S S S - l k y p g q P O E I P F F O N - T T F S I P V N D P H O V W N S D e H E D L O V L V I I S R P P A - - K I F L Y d d w s m p h t a a v l k f p f w d e d c f  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I F D T K G E E P R G F N A N K K L E Q V L C V N G S C R V L D D G N I ----- I Q E I T L D S P a V G L Y V G P A V W E M H D F S - - S F C V M M V L A S D Y Y D e t D Y I R Q - - Y - - D N F k K Y -----</p> <p>E A A K -----  K K Y I a k i n l e</p>
364	1l5A (160)	N	10.45	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.59 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----K E V E W L O T - I S P G O R T P I H R H - S C E E F T V I K K G T L L M G S S S l k y p G a P O E I P F F O N - T T F S I P V N D P H O V W N S D e H E D L O V L V I I S R P P A - - K I F L Y d d w s M P H - T A a v l k f p f w d e d c f  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNANKKLEQVLCVNGSCRVLDDGNI-----I-IQEI TL DSPaVGLYVGPVAVWEMHDFS--SFCVMMVLA SDYYDe tDYIRQ--Y--DNFkKY-----</p> <p>eaak-----  ----iakinl</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=5.59 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----E V E W L O T I S P G O R T P I H R H S C E E F T V I K K G T L L M G S S S l k y p G O P O E I P F F O N T T F S I P V N D P H O V W N S D E H E D L O V L V I I S r p p a k i f l y d d w s M P H A A V L K -----  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I F D T K G E E P R G F N A N K K L E Q V L C V N G S C R V L D D G N I ----- I Q E I T L D S P A V G L Y V G P A V W E M H D F S S D C V M M V L A S D Y ----- Y D E I D Y I R Q y d n f k k y i a k i n l</p> <p>fpfvwde dcf  -----</p>
	2pamB (134)			<p><b>BLAST:</b> aliSize=25 (resi) iden=8.96% (12/134) simi=18.66% (25/134)  scvrdnslvrdisqmpqssygieglshltvagalnghmkevevwlqtispgqrtpihrhsceevftvlkgkgtllmgssslkypgqp-----O E I P F F O N T T F S I - - P V N D P H O V W N S D E H E D I O V L V I I S r P P A K I F L Y D D -----  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I f d T K G E E P R G F N A N K K L E - O V L V C L N - G S C R V I I - D D g n i i q e i t l d s p a v g l y v g p a v w h e m h d f s</p> <p>-----wsmph</p> taavlkfpfvwde dcf ----- sdcvmmvlasdydetdyir q y d n f k k y i a k i n l ----- <p><b>Proposed:</b> aliSize=117 (resi) RMSD=2.30 (Å)  scvrdnsl--VRDIsqMPOSSyglEGLSHITvAGA-LHGMKEVWLOT-ISPGORTPIHRH-SC E E F T V I K K G T L L M G S S S - l k y p g q P O E I P F F O N - T T F S I P V N D P H O V W N S D e H E D L O V L V I I S R P P A - - K I F L Y d d w s M P H - - T - - - - - a a v l k f p f w d e d c f e a a k  -----enkvIN--FKKI--DSRGSLVA-IEENKIPfSIKRVYYIFdTKGEEPRGFNANKKLEQVLCVNGSCRVLDDGNI-----I Q E I T L D S P a V G L Y V G P A V W E M H D F S - - S F C V M M V L A S D Y Y D e t D Y I R Q - - Y - - D N F k K Y i a k i n l -----</p>
365	1l5A (160)	C	10.45	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.59 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----K E V E W L O T - I S P G O R T P I H R H - S C E E F T V I K K G T L L M G S S S l k y p G a P O E I P F F O N - T T F S I P V N D P H O V W N S D e H E D L O V L V I I S R P P A - - K I F L Y d d w s M P H - T A a v l k f p f w d e d c f  -----enkvinfkkiidsrgslvaieenknipfSIKRVYYIFdTKGEEPRGFNANKKLEQVLCVNGSCRVLDDGNI-----I-IQEI TL DSPaVGLYVGPVAVWEMHDFS--SFCVMMVLA SDYYDe tDYIRQ--Y--DNFkKY-----</p> <p>eaak-----  ----iakinl</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=5.59 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----E V E W L O T I S P G O R T P I H R H S C E E F T V I K K G T L L M G S S S l k y p G O P O E I P F F O N T T F S I P V N D P H O V W N S D E H E D L O V L V I I S r p p a k i f l y d d w s M P H T A A V L K -----  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I F D T K G E E P R G F N A N K K L E Q V L C V N G S C R V L D D G N I ----- I Q E I T L D S P A V G L Y V G P A V W E M H D F S S D C V M M V L A S D Y ----- Y D E I D Y I R Q y d n f k k y i a k i n l</p> <p><b>fpfvwde</b> dcf  -----</p>
	2pamB (134)			<p><b>BLAST:</b> aliSize=25 (resi) iden=8.96% (12/134) simi=18.66% (25/134)  scvrdnslvrdisqmpqssygieglshltvagalnghmkevevwlqtispgqrtpihrhsceevftvlkgkgtllmgssslkypgqp-----O E I P F F O N T T F S I - - P V N D P H O V W N S D E H E D I O V L V I I S r P P A K I F L Y D D -----  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I f d T K G E E P R G F N A N K K L E - O V L V C L N - G S C R V I I - D D g n i i q e i t l d s p a v g l y v g p a v w h e m h d f s</p> <p>-----wsmph</p> taavlkfpfvwde dcf ----- sdcvmmvlasdydetdyir q y d n f k k y i a k i n l ----- <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.00 (Å)  scvrdnslvrdisqmpqssygieglshltvagalnghm-----E V E W L O T - I S P G O R T P I H R H - S C E E F T V I K K G T L L M G S S S - l k y p g q P O E I P F F O N - T T F S I P V N D P H O V W N S D e H E D L O V L V I I S R P P A - - K I F L Y d d w s m p h t a a v l k f p f w d e d c f  -----enkvinfkkiidsrgslvaieenknipfS I K R V Y Y I F D T K G E E P R G F N A N K K L E Q V L C V N G S C R V L D D G N I ----- I Q E I T L D S P a V G L Y V G P A V W E M H D F S - - S F C V M M V L A S D Y Y D e t D Y I R Q - - Y - - D N F k K Y -----</p> <p>E A A K -----  K K Y I a k i n l</p>

366	<p><b>Im1dA (163)</b></p> <hr/> <p><b>li1dD (161)</b></p>	C	11.18	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=3.21 (Å)  -----LDFDILndgthrNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD-----H-HESMIVLKN-KOKVIGICFRQYKPOR---ORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgy-LKDYDgggtlmecy  gsmslpdGFYIRRM-----EEGDLEQVTEETLKV---TTVGTITPES---fckLiKYWneatvwndnedkkinQYNPVIIVDKrTETVAATGNIITERKiihelGLCGHIEDIANSKYGGQLKLIIDQLVTIGFDYGCYKIILDCDEKNVKFYEKCGFSNAG-----vEMQIR-----</p> <p>ihpyvdygr-  -----k</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=7.51 (Å)  1-----LDFDILNDGTHRNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD-----RHHE--MVILK-----NKOK-VIGICFRQYKPOR---FAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK-----khrmpqekwkgyikdydgg  -gsmlpdgFYIRRMEEGDLEQVTEETLKV---ttvgtitPES---C-----KLKYWNEatvwndnedkkinImqYNPVIIVDKrTETVaATGNIITERKIIHElgLCHIEDIANSKYGGQLKLIIDQLVTIGFDYGCYKIILDCDEKNVKFYEKCGFSNAGvqmqrk-----</p> <p>tlmecyihpyvdygr  -----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=16.15% (26/161) simi=34.16% (55/161)  1ldfd-----LNDGTL---HRNMKLLDLKNI FSRQLPKMPKEYIVKLVFD---RHHE--SMVILKN---KOKVIG---IIFrqykpqrfAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK-----khrmpqekwkgyik  -----gsmslpdgfyirrmeeagleqvtetlkv---TTVGTITPESFCKLKYWneatvwndnedkkinImqYNPVIIVDKrTETVAATGNIITERKIIHElgL-----GHIEDIANSKYGGQLKLIIDQLVTIGFDYGCYKIILDCDEKNVKFYEKCGFSNAGvqmqrk-----</p> <p><b>dydgggtlmecyihpyvdygr</b>  -----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.03 (Å)  -----LDFDILndgthrNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD-----H-HESMIVLKN-KOKVIGICFRQYKPOR---ORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydggTL  gsmslpdGFYIRRM-----EEGDLEQVTEETLKV---TTVGTITPESfckLiKYWneatvwndnedkkinQYNPVIIVDKrTETVAATGNIITERKiihelGLCGHIEDIANSKYGGQLKLIIDQLVTIGFDYGCYKIILDCDEKNVKFYEKCGFSNAG-----vEMQIR-----</p> <p>MECYIhpyvdygr  QIRK-----</p>
367	<p><b>Im1dA (163)</b></p> <hr/> <p><b>Imk4A (157)</b></p>	M	14.01	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.51 (Å)  LDFDILndgthrnmkllldlknifsrqlpkmpkeyivkvlvfd---RHHE--SMVILKNKOKVIGICFRQYKPORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  HMDIRTIIS-----S-DYEMVTSVLNEWWggRQLK---EKLP--RLffEIQdtSFIITSEH--NSMTFLIGFSQSdPETAYIHSGHPDFRKMQIKQLYDVEIETVKORGCTRVKCVTSpvkVSIAMHTLGFEDIK-----gktvngisvfanYDgpgQDRVLFVKN-----</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=6.62 (Å)  1ldfdilndgthrnmkllldlknifsrqlpkmpkeyivkvlvfd---RHHE--SMVILKNKOKVIGICFRQYKPORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  -----hmdirtitssdyemvtsvlnewwggRQLK---EKLP--RLffEIQdtSFIITSEH--NSMTFLIGFSQSdPETAYIHSGHPDFRKMQIKQLYDVEIETVKORGCTRVKCVTSpvkVSIAMHTLGFEDIKGTGK---TVNGISVFAnydgpqg</p> <p><b>-GTLMECY-ihpyvdygr</b>  dRVLVFNi-----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=14.01% (22/157) simi=29.94% (47/157)  1ldfdilndgthrnmkllldlknifsrqlpkmpkeyivkvlvfd---RHHE--SMVILKNKOKVIGICFRQYKPORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  -----hmdirtitssdyemvtsvlnewwggRQLK---EKLP--RLffEIQdtSFIITSEH--NSMTFLIGFSQSdPETAYIHSGHPDFRKMQIKQLYDVEIETVKORGCTRVKCVTSpvkVSIAMHTLGFEDIKGTGK---TVNGISVFAnydgpqg</p> <p><b>gtlmecyihpyvdygr</b>  1-----</p> <p><b>Proposed:</b> aliSize=141 (resi) RMSD=2.36 (Å)  LDFDILndgthrnmkllldlknifsrqlpkmpkeyivkvlvfd---RHHE--SMVILKNKOKVIGICFRQYKPORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  HMDIRTIIS-----S-DYEMVTSVLNEWWggRQLK---EKLP--RLffEIQdtSFIITSEH--NSMTFLIGFSQSdPETAYIHSGHPDFRKMQIKQLYDVEIETVKORGCTRVKCVTSpvkVSIAMHTLGFEDIKgtktVNGISVFAnydgpqg---RVLFVKN-----</p>
368	<p><b>Im1dA (163)</b></p> <hr/> <p><b>lqsmA (150)</b></p>	C	13.33	<p><b>TM-align:</b> aliSize=128 (resi) RMSD=2.96 (Å)  -LDFDILndgthrNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD-----H-HESMIVLKN-KOKVIGICFRQYKPOR---ORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  dnITVRFV-----E-NDKEGWQRLWKSQD-FYEVSPDdLDDFNFRGfIdpniKMWAAAVESsSEKIIGMNFNHTTWDfkdkiYINDYDENSRVKAGGKIIOFVYDEADNLGTPSVYWCTDESnrAQLLYVNGYKAPK-----iL-----yK-----rkggy</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=7.88 (Å)  1--LDFDILNDGTHRNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD-----H-HESMIVLKN-KOKVIGICFRQYKPOR---ORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  -dnITVRFVEND---KEGWQRLWKSQD-FYEVSPDdLDDFNFRGfIdpniKMWAAAVESsSEKIIGMNFNHTTWDfkdkiYINDYDENSRVKAGGKIIOFVYDEADNLGTPSVYWCTDESnrAQLLYVNGYKAPK-----iL-----yK-----rkggy</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=12.00% (18/150) simi=21.33% (32/150)  1ldfdilndgthrnmkllldlknifsrqlpkmpkeyivkvlvfd---RHHE--SMVILKNKOKVIGICFRQYKPORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  -----dnitvrfvtendkegwqrlwksyqdfyevspddlddfnfrgfidpniKMWAAAVESsSEKIIGMNFNHTTWDfkdkiYINDYDENSRVKAGGKIIOFVYDEADNLGTPSVYWCTDESnrAQLLYVNGYKAPK-----iL-----yK-----rkggy</p> <p><b>-----mpqekwkgyikdydgggtlmecyihpyvdygr</b>  1lyvkvgykpkilykrkgy-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.29 (Å)  -LDFDILndgthrNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD-----H-HESMIVLKN-KOKVIGICFRQYKPOR---ORFAEVAFLAVTANEVVRGYTRMKNFKDHMOKONIEYLLTYADNFAIGYFKKOGFTK---khrmpqekwkgyikdydgggtlmecyihpyvdygr  dnITVRFV-----TENDKEGWQRLWKSQDfyEVSPDdLDDFNFRGfIdpniKMWAAAVESsSEKIIGMNFNHTTWDfkdkiYINDYDENSRVKAGGKIIOFVYDEADNLGTPSVYWCTDESnrAQLLYVNGYKAPK-----iL-----yK-----rkggy</p>

369	<p>1m1dA (163)</p> <p>1qsmB (149)</p>	C	<p>13.42</p> <p>TM-align: aliSize=128 (resi) RMSD=2.99 (Å)  LLDFDILtndgThRNMKLLIDLKNI FSRQLPKMPKEY-TVKLVFD-----H-HESM I LKN-KOKVIGGICFROYK----PORFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADN-F--AIGYFKKOGFTKEHrmpqekw-Kgyik-Dydggtlmecyihpyvdygr----  NITVRFV-----E-NDKEGWQRWKS YQD-FYEV SFPDdLDFNFGf ldpnIkMWA AAVESsSEKI IGMN FNHMT twdFKDKIYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NhrQLLYV VGYKAPK-----iL---yK-----rkgy</p> <p>SARST: aliSize=120 (resi) RMSD=4.86 (Å)  1ldf-DILTNDGTHRNMKLLIDLKNI FSRQLPKMPK---EYIVKLVFDRHH-ESM I LKN--KOKVIGGICFROYKPORF----AEVAF A TANEORVRYGTRM NKFKDHMOKONIEYLLTYADNFAIGYFKK-----qftkehrmpqekwkgyikdydggtlmecyihpyvdygr  -----nITVRFVTENDKEGWQRWKS YQDFYEV SFPdLdDFNFGFRFLDPN I kMWA AAVESsSEKI IGMN FNHMTTWdfkdkiYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NHR AQLLYVkvgykapkilykrkgy-----</p> <p>BLAST: aliSize=32 (resi) iden=12.08% (18/149) simi=21.48% (32/149)  1ldfdiltndgthrnmkllidknlfsrqlpkmpkeyivklvfdrhhe-----SMVILKNKOKVIGGICFROYKPO-RFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADNfaigyfkkqgftKEHR---  -----nITVRFVTENDKEGWQRWKS YQDFYEV SFPdLdDFNFGFRFLDPN I kMWA AAVESsSEKI IGMN FNHMTTWdfkdkiYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NHR AQLLYVkvgykapkilykrkgy-----SNHRAql</p> <p>-----mpqekwkgyikdydggtlmecyihpyvdygr  lyvkvgykapkilykrkgy-----</p> <p>Proposed: aliSize=129 (resi) RMSD=2.22 (Å)  LLDFDILtndgthrNMKLLIDLKNI FSRQLP--KMPKE--YIV-KLVFD--R--H-HESM I LKN--KOKVIGGICFROYKPO----RFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADN-F--AIGYFKKOGFTKEhrmpqekwkgyikdydggtLMECYIHPYV-dygr  NITVRFV-----TENDKEGWQRWKS YQDFYEV SFPDdL-DdFNFGFRFLDPN I kMWA AAVESsSEKI IGMN FNH-MT twdFKDKIYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NhrQLLYV VGYKA-----PKILYKRKGYa----</p>
370	<p>1m1dA (163)</p> <p>1qsmD (152)</p>	C	<p>13.16</p> <p>TM-align: aliSize=127 (resi) RMSD=2.88 (Å)  ---LLDFDILtndgThRNMKLLIDLKNI FSRQLPKMPKEY-TVKLVFD-----H-HESM I LKN--KOKVIGGICFROYK----PORFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADN-F--AIGYFKKOGFTKEHrmpqekw-Kgyik-Dydggtlmecyihpyvdygr----  sedNITVRFV-----E-NDKEGWQRWKS YQD-FYEV SFPDdLDFNFGf ldpnIkMWA AAVESsSEKI IGMN FNHMT twdFKDKIYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NhrQLLYV VGYKAPK-----iL---yK-----rkgy</p> <p>SARST: aliSize=136 (resi) RMSD=7.79 (Å)  1ldf----DILTNDGTHRNMKLLIDLKNI FSRQLPKMPKEYIVKLVFD---FDRH--HESM I LKN--KOKVIGGICFROYKPORF----AEVAF A TANEORVRYGTRM NKFKDHMOKONIEYLLTYADNFAIGYFKKqgftkehrmpQEKWkgyiKDYDGGTLMECY--ihpyvdygr  ----sednITVRFVTENDKEGWQRWKS YQDFYEV SFPDdLDFNFGFRFLDPN I kMWA AAVESsSEKI IGMN FNHMTTWdfkdkiYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NHR AQLLYVkvgykapkiykrkgy-----</p> <p>BLAST: aliSize=32 (resi) iden=11.84% (18/152) simi=21.05% (32/152)  1ldfdiltndgthrnmkllidknlfsrqlpkmpkeyivklvfdrhhe-----SMVILKNKOKVIGGICFROYKPO-RFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADNfaigyfkkqgftKEHR  -----sednITVRFVTENDKEGWQRWKS YQDFYEV SFPdLdDFNFGFRFLDPN I kMWA AAVESsSEKI IGMN FNHMTTWdfkdkiYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NHR AQLLYVkvgykapkiykrkgy-----SNHR</p> <p>-----mpqekwkgyikdydggtlmecyihpyvdygr  aqlllyvkvgykapkiykrkgy-----</p> <p>Proposed: aliSize=129 (resi) RMSD=2.25 (Å)  ---LLDFDILtndgthrNMKLLIDLKNI FSRQLP--KMPKE--YIVKLVFD--R--H-HESM I LKN--KOKVIGGICFROYKPO----ORFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADN-F--AIGYFKKOGFTkehrmpqekwkgyikdydggtLMECY---ihpyvdygr  sedNITVRFV-----TENDKEGWQRWKS YQDFYEV SFPDdLDFNFGFRFLDPN I kMWA AAVESsSEKI IGMN FNH-MT twdFKDKIYINDYDENSRVKAGKIQFVYDEADLGTPSVYWC TDES NhrQLLYV VGYKAPK-----APKIYKRKGYa-----</p>
371	<p>1m1dA (163)</p> <p>1s3zB (145)</p>	C	<p>9.66</p> <p>TM-align: aliSize=122 (resi) RMSD=2.48 (Å)  LLDFDILtndgthrM KLLIDLKNI FSRQLPKMPKEYIV-KLVFD--RH--HESM I LKNKOKVIGGICFROYK-----ORFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADN-F--AIGYFKKOGFTKEHrmpqekwkgyik---Dydggtlmecyihpyvdygr----  -MITROM-----NKTLEHWRGLRKQLWGHDPDAH IADGEEI I QAdhLASF I AMAD-GVALG FADASIRHDyngcdsSPVVFLEGI FVLP SFRORVAKO IAAVQRWGTNKGCREMASDTSpenTisQKVHQALGFEE T-----rviF-----yrkr</p> <p>SARST: aliSize=118 (resi) RMSD=6.01 (Å)  1ldfdiltndgthrnmkllidknlfsrqlpkmpkeyivklvfdrhheSMVILKNKOKVIGGICFROYKPO----R----FAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADNFA---IGYFKKOGFTkehrmpqekwkgyikdydggtLMECY-ihpyvdygr  -----mdirqmktHEHWRGLRKQLWGHDPDAH IADGEEI I QAdhLASF I AMADG-VALG FADASIR--HdyngcdsSPVVFLEGI FVLP SFRORVAKO IAAVQRWGTNKGCREMASDTSpenTisQKVHQALGFEE T-----E-----VIFYRKRc-----</p> <p>BLAST: aliSize=11 (resi) iden=4.14% (6/145) simi=7.59% (11/145)  1ldfdiltndgthrnmkllidknlfsrqlpkmpkeyivklvfdrhhesmvilknkqkvigicfrqykpqrfaevafavtaneovrygygtrlmnkfkdh-----MCKONIEYLLTYADNFAIGY-----  -----mdirqmktHEHWRGLRKQLWGHDPDAH IADGEEI I QAdhLASF I AMADG-VALG FADASIR--HdyngcdsSPVVFLEGI FVLP SFRORVAKO IAAVQRWGTNKGCREMASDTSpenTisQKVHQALGFEE T-----E-----VIFYRKRc-----</p> <p>-----fkkqgftkehrmpqekwkgyikdydggtlmecyihpyvdygr  rgvakqliaavqrwgtngcremasdtspenTisQKVHQALGFEE T-----E-----VIFYRKRc-----</p> <p>Proposed: aliSize=130 (resi) RMSD=2.20 (Å)  LLDFDILtndgthrM KLLIDLKNI FSRQLPKMPKEYIVKLVFD--RH--HESM I LKNKOKVIGGICFROYKPO----ORFAEVAFLA TANEORVRYGTRM NKFKDHMOKONIEYLLTYADN-F--AIGYFKKOGFTKEhrmpqekwkgyikdydggtLMECYIHP-yvdygr  -MITROM-----NKTLEHWRGLRKQLWGHDPDAH IADGEEI I QAdhLASF I AMAD-GVALG FADASIR--HdyngcdsSPVVFLEGI FVLP SFRORVAKO IAAVQRWGTNKGCREMASDTSpenTisQKVHQALGFEE T-----E-----RVIFYRKRc-----</p>

372	<p>1m1dA (163)</p> <hr/> <p>1s5kA (153)</p>	C	8.50	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.53 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROLPKMPEK---YIVKLVFD--RH--HE SMVILKKNKQVIGICFROYKP-----ORFAEVAFLAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADN-F--AIGYFKKQFTKEHrmpqekwkgyik---Dydggtlmecyihpyvdygr-  glvprgshMDIROM-----KTHLEHW RGLRKQLW---GHPdDAH1ADGEEi1QAdhLASF1AMAD-GVAIGFADASIRHdyvngcdsSPVVFLEGI FLPSPFRQGVAKQIAAVQRWGTNKGCREMASDTSPEntiSOKVHQALGFEETe-----rvif-----y</p> <p>----  rkrc</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=3.26 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROLPKMPEK---YIVKLVFD--RH--HE SMVILKKNKQVIGICFROYkp0----RF-----AEVAF LAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADN-F--AIGYFKKQFT-----kchrmpqekwkgyikdydggtlmecy  -glvprgshMDIROMN-----KTHLEHW RGLRKQLW---GHDDAhladGEEILOADLASFIAMADG-VAIGFADASIR--HdyvngCds spvVLEGI FLPSPFRQGVAKQIAAVQRWGTNKGCREMASDTSPEntiSOKVHQALGFEETe-----rvifyrkr-----</p> <p>ihpyvdygr</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=3.92% (6/153) simi=7.19% (11/153)  l1dfdil tndgthrnmkllidlknifsrqlpkmpkeyivklvfdrhhesmvilknkqkviggicfrqykpqrfaevaf lavtaneqvr gygtrlmnkfkdh-----MOKONIEYLLTYADNFAIGY-----  -----glvprgshmdi rqnkthlehwrgl rklwpgphddahl adgee iLADHLASF1AMADGVAIGFadasirhdyvngcds spv vlegi</p> <p>-----fkkqgftkchrmpqekwkgyikdydggtlmecyihpyvdygr</p> <p>fvlp s frqrgvakqli aavqrwgt nkgcremasdtspe ntisqkvhqal gfee rrvifyrkr-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.16 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROLPKMPEK---YIVKLVFD--RH--HE SMVILKKNKQVIGICFROYKP-----ORFAEVAFLAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYAD-NF--AIGYFKKQFTKEHrmpqekwkgyikDydggtLMECYIHP-yvdygr  glvprgshMDIROM-----KTHLEHW RGLRKQLW---GHPdDAHLADGEEi1QAdhLASF1AMAD-GVAIGFADASIR-HdyvngcdsSPVVFLEGI FLPSPFRQGVAKQIAAVQRWGTNKGCREMASDTSPEntiSOKVHQALGFEET-----E-----RVI FYRKRCC-----</p>
373	<p>1m1dA (163)</p> <hr/> <p>lufhA (155)</p>	C	9.68	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=2.96 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROLPKM-----P--KEYIVKLV--FD-RH--ESMVI LKKNKQVIGICFROYKPO--RFAEVAFLAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADN-F--AIGYFKKQFTKEHrmpqekwkgyikdydggtlmecyihpyvdygr-----  TLMTPM-----QTEEFRSYLTYTTKHYAEKvkagtwlpedaq11SKQVFTDLPrgLETPHHLWSLKLNKEDIVGWLWIHAEPHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNqtARKLYEQTGFQETD-----V-----mskkl</p> <p><b>SARST:</b> aliSize=124 (resi) RMSD=7.33 (Å)  l1dfdil tndgt-----HRNMKLLIDLKNI FSROLPKMPK---YIVKLV-----VFDRH--ESMVI LKKNKQVIGICFROYK--PQRF EAVAF LAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADNFAIGYF-----KQFTKEHrmpqekwkgyikdydgGTLMECY-ihpyv  -----t imltpmqteefrSYLTYTTKHYAEKVKAGT-WLPDAQLskqvftdl1prgLETPLHLWSLKLNKEDIVGWLWIHAEPHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNQTAR1yeQTGFQETD-----E-----DVMVSKKL-----</p> <p>dygr  ----</p> <p><b>BLAST:</b> aliSize=35 (resi) iden=11.61% (18/155) simi=22.58% (35/155)  l1dfdil tndgthrnmkllidlknifsrqlpkmpkeyivklvfd-----t imltpmqteefrsyltyttkhyaeekvkagtwlpedaq11skqvftdl1prgletp-----HESMVI LKKNKQVIGICFROYKPORFAEVAFLAVTANEQVRG--YGTRLMNKFKDHMOKONIEYLL--TYADN-FAIGYFKKQFT  -----t imltpmqteefrsyltyttkhyaeekvkagtwlpedaq11skqvftdl1prgletp-----HHLWSLKLNKEDIVGWLWIHA-EPEHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNQTARKLYEQTGFQETD-----V-----mskkl</p> <p>-----tchrmpqekwkgyikdydggtlmecyihpyvdygr  qtdvmskkl-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.46 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROL-PKM-----P--KEYIVKLV--F--DR--ESMVI LKKNKQVIGICFROYKP-O-RFAEVAFLAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADN-F--AIGYFKKQFTKEHrmpqekwkgyikdydGGTLMECYIhpyvdygr  -tLMLTPM-----QTEEFRSYLTYTTKHYAEKvkagtwlpedaq11SKQVFTDLPrgLETPHHLWSLKLNKEDIVGWLWIHAEPHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNqtARKLYEQTGFQETD-----TDVMVSKKL-----</p>
374	<p>1m1dA (163)</p> <hr/> <p>lufhB (154)</p>	C	9.09	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=2.75 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROL-PKM-----P--KEYIVKLV--F--DRH--ESMVI LKKNKQVIGICFROYKPO--RFAEVAFLAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADN-F--AIGYFKKQFTKEHrmpqekwkgyikdydGgtlmecyihpyvdygr-----  -TLMTPM-----QTEEFRSYLTYTTKHYAEKvkagtwlpedaq11SKQVFTDLPrgLETPHHLWSLKLNKEDIVGWLWIHAEPHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNqtARKLYEQTGFQETD-----V-----skkl</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=5.73 (Å)  l1dfdil tndgt-----HRNMKLLIDLKNI FSROLPKMPK---YIVKLV-----VFDRH--ESMVI LKKNKQVIGICFROYK--PQRF EAVAF LAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADNFAIGYF-----KQFT-----kchrmpqekwkgyikdydggtlm  -----imltpmqteefrSYLTYTTKHYAEKVKAGT-WLPDAQLskqvftdl1PRGLETPHHLWSLKLNKEDIVGWLWIHAEPHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNQTAR1yeQTGFQETD-----tdvmskkl-----</p> <p>ecyihpyvdygr  -----</p> <p><b>BLAST:</b> aliSize=35 (resi) iden=11.69% (18/154) simi=22.73% (35/154)  l1dfdil tndgthrnmkllidlknifsrqlpkmpkeyivklvfd-----imltpmqteefrsyltyttkhyaeekvkagtwlpedaq11skqvftdl1prgletp-----HESMVI LKKNKQVIGICFROYKPORFAEVAFLAVTANEQVRG--YGTRLMNKFKDHMOKONIEYLL--TYADN-FAIGYFKKQFT  -----imltpmqteefrsyltyttkhyaeekvkagtwlpedaq11skqvftdl1prgletp-----HHLWSLKLNKEDIVGWLWIHA-EPEHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNQTARKLYEQTGFQETD-----V-----skkl</p> <p>-----tchrmpqekwkgyikdydggtlmecyihpyvdygr  qtdvmskkl-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.08 (Å)  LDFDILtndgthrNMKLLIDLKNI FSROL-PKM-----P--KEYIVKLV--F--DR--ESMVI LK--NKQVIGICFROYKP-O-RFAEVAFLAVTANEQVRG YGTRLMNKFKDHMOKONIEYLLTYADN-F--AIGYFKKQFTKEHrmpqekwkgyikdydGGTLMECYIhpyvdygr  -TLMTPM-----QTEEFRSYLTYTTKHYAEKvkagtwlpedaq11SKQVFTDLPrgLETPHHLWSLKLNKED-I-VGWLWIHAEPHPQOEAFIYDFGLYEPYRKG YAKQALAAALDQAARSMGTRKSLHVFahNqtARKLYEQTGFQETD-----TDVMVSKKL-----</p>

375	<p><b>1m1dA</b> (163)</p> <hr/> <p><b>1vkcA</b> (149)</p>	C	12.08	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=2.64 (Å)  LLDFDILtndgthrnmkLLIDLKNTFSRQLP-KM-----P---K---YTVKLVFDRH-EESMVIKKNKOKVIGICFROYK----PORFAEVAFLAVTANEQVRVYTRMNFKDHMOKONIEYLLTYADNFAI--GYFKKOGFTKEhrmpqekwkgyik-DYDggtlmecyihpyvdygr---  EYTIVDGE-----E--YTEEIKLDREISYSFVrfpisyeeYeerHELFESLSQGEKFFVA--NERSELLCHVWICITLdtvdYVkiYIYDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLRVEIDNpAVKWEERQYKARA-----IIME-----kpi</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=4.22 (Å)  llidf-DILTNDgthrnmkLLIDLKNTFSRQLP-KM-----P---K---YTVKLVFDRH-EESMVIKKNKOKVIGICFROYK--KPORF--EVAFLAVTANEQVRVYTRMNFKDHMOKONIEYLLTYADNFAI--GYFKKOGFT-----kehrmpqekwkgyikdydggtlmecyihpyvdygr  -----eYTIVDG-----EYIIEEIKLDREISYSFVrfpisyeeYeerHELFESLSQGEKFFVA--NERSELLCHVWICITLdtvdYVkiYIYDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLRVEIDNpAVKWEERQYKAralimekpi-----</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=14.77% (22/149) simi=34.90% (52/149)  lldfdilndgthrnmkllidknlfsrqlpkmp-----K---YTVKLVFDRH-EESMVIKKNKOKVIG--ICFRqYKPORFAEVAFLAVTANEQVRV--YTRMNFKDHMOKONIE--YLLTYADNFAI--GYFKKOGFTKEHRMPOEK--wkgyi  -----eytivdgeeyieeikkldreisysfvrfpisyeeYeerHELFESLSQGEKFFVA--NERSELLCHVWICIT-LDTVDYVkiYIYdIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLRVEIDNpAVKWEERQYK--KARALIMEKpi-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.10 (Å)  LLDFDILtndgthrnmkLLIDLKNTFSRQLP-KM-----P---K---YTVKLVFDRH-EESMVIKKNKOKVIGICFROYK----ORFAEVAFLAVTANEQVRVYTRMNFKDHMOKONIEYLLTYADNFAI--GYFKKOGFTKEhrmpqekwkgyikdydggtlmecyihpyvdygr  EYTIVDGE-----E--YTEEIKLDREISYSFVrfpisyeeYeerHELFESLSQGEKFFVA--NERSELLCHVWICIT-LdtvdYVkiYIYDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLRVEIDNpAVKWEERQYK-----RALIMEKPI-----</p>
376	<p><b>1m1dA</b> (163)</p> <hr/> <p><b>2vxkA</b> (165)</p>	C	10.43	<p><b>TM-align:</b> aliSize=125 (resi) RMSD=3.21 (Å)  -----LLDFDIltndgthrnmkLLI-DLKNIFSRQlpkMPKEYI---VKI--VF-DR--H---HESMVIKKNKOKVIGICFROYK----ORFAEVAFLAVTANEQVRVYTRMNFKDHMOKONIEYLLTYADNFAI--GYFKKOGFTKEhrmpqekwkgyi-IKDYDggtlm  entplfspslispdvlavlpadytirp-----CRSDYKrgYLDVLR-V---TTVGDineeqwnsryewIraRsdEYLLVCDGEGRIVGTGSLVVERKfihslgmVGHIEDIAVEKGOQGKKLRLRIQALDYVAEIVGCYKTLDCSEANEIFYICCFKRA-----IEMAHY-----  ecyihpyvdygr-</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=13.94 (Å)  lldfdilndgthrnm-----KLLIDLKNTFSRQLPK-----MPKeyivklVDRHHESMVILK----NKQkviGICFROYKpqrEevaflavTANEQVRVYTRMNFKDHMOKONIEYLLTYADNFAI--GYFKKOGFT  -----entplfspslispdvlavlpadytirplcrsdykrGYldvrlvtvtdineEQWNSRYEWIARSDeYllvvCDG-----EGRIVGTGSLVVERKfihslgmVGHIEDIAVEKGOQGKKLRLRIQALDYVAEIVGCYKTLDCSEANEIFYICCFKRA-----  -----k-----kehrmpqekwkgyikdydggtlmecyihpyvdygr  rAglemahy-----</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=3.07% (5/163) simi=6.75% (11/163)  lldfdilndgthrnmkllidknlfsrqlpkmpkeyivklvdrhhesmviiknkqkvigg-----ICFROYK--ORFAEVAFLAVTANE-----  -----entplfspslispdvlavlpadytirpLRSDYK--RGYLDVLRVLTTVGDineeqwnsryewIraRsdEYLLVCDGEGRIVGTGSLVVERKfihslgmVGHIEDIAVEKGOQGKKLRLRIQALDYVAEIVGCYKTLDCSEANEIFYICCFKRA-----  -----qvrngytrlmnkfdhmokqnieylltyadnfaigyfkkqgftk-----kehrmpqekwkgyikdydggtlmecyihpyvdygr  vaekvcyktildceanegfyicgfkraAglemahy-----</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.92 (Å)  -----LLDFDIltndgthrnmkLLI--DLKNIFSRQlpkMPKE-----yivklvF--DR--H---HESMVIKKNKOKVIGICFROYK----ORFAEVAFLAVTANEQVRVYTRMNFKDHMOKONIEYLLTYADNFAI--GYFKKOGFTKEhrmpqekwkgyikdy  entplfspslispdvlavlpadytirp-----CRSD-YkrGYLDVLR-V---TTVGDineeqwns-----RyeWIRaRsdEYLLVCDGEGRIVGTGSLVVERKfihslgmVGHIEDIAVEKGOQGKKLRLRIQALDYVAEIVGCYKTLDCSEANEIFYICCFKRA-----  AgTLMECYI-hpyvdygr  --LEMAHYc-----</p>
377	<p><b>1mk4A</b> (157)</p> <hr/> <p><b>1s3zB</b> (145)</p>	C	20.69	<p><b>TM-align:</b> aliSize=130 (resi) RMSD=2.46 (Å)  hMDIRITITSSDYEMVTSVLNWWggrQLKEK---L--PR-LFFEFHQDTSFTTSEHNSMTGFLIGFQSQS-----DPeTAYIHFSGHPDFRKMQIGKQLYDVFIE TVKQRCGTRVKCVTSFVNKVS IAYITKLGFDIEKgtktvngisVFAnYDGPgqdrvlfvkni--  -MDIRQMNKTHLEHWRGLRK-QL---WPGHPddaHlAdGeEILQADHLASFIAMADGVAIGFADASIRHDyngcdsSP-VVLEGIFVLSFRQRGVAKQLIAAVQRWGNTKCGREMASDTSPEENTISQKVQALGHEETE-----RVI-FYRK-----rc</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=4.50 (Å)  hm-DIRITITSSDYEMVTSVLNWWggrQLKEK---L--PR-LFFEFHQDTSFTTSEHNSMTGFLIGFQSQS-----SDPETAYIHFSGHPDFRKMQIGKQLYDVFIE TVKQRCGTRVKCVTSFVNKVS IAYITKLGFDIEKGTktvngisvfanYdgpqdrvlfvkni  --mDIRQMNKTHLEHWRGLRKQLPQH-----PDDAHLADGeeilqaHLASFIAMADGVAIGFADASIRHDyngcdsSPVVLEGIFVLSFRQRGVAKQLIAAVQRWGNTKCGREMASDTSPEENTISQKVQALGHEETE-----ERVIFyrkrc-----</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=24.14% (35/145) simi=36.55% (53/145)  hMDIRITITSSDYEMVTSVLNWWggrQLKEK---L--PR-LFFEFHQDTSFTTSEHNSMTGFLIGFQSQS-----SDPETAYIHFSGHPDFRKMQIGKQLYDVFIE TVKQRCGTRVKCVTSFVNKVS IAYITKLGFDIEKGTktvngisvfanYdgpqdrvlfvkni  -MDIRQMNKTHLEHWRGLRKQLPQHddaHlADGEEILQADHL--ASFIAMADGVAIGFADASIRHDyngcdsSPVVLEGIFVLSFRQRGVAKQLIAAVQRWGNTKCGREMASDTSPEENTISQKVQALGHEETE-----ERVIFyrkrc-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.01 (Å)  hMDIRITITSSDYEMVTSVLNWWggrQLKEK---L--PR-LFFEFHQDTSFTTSEHNSMTGFLIGFQSQS-----DPeTAYIHFSGHPDFRKMQIGKQLYDVFIE TVKQRCGTRVKCVTSFVNKVS IAYITKLGFDIEKgtktvngisvfanYdgpqdrvlfvkni--  -MDIRQMNKTHLEHWRGLRK-QL---WPGHPddaHlAdGeEILQAdhLA--SFIAMADGVAIGFADASIRHDyngcdsSP-VVLEGIFVLSFRQRGVAKQLIAAVQRWGNTKCGREMASDTSPEENTISQKVQALGHEETE-----ERVIFyrkrc</p>

378	<p>1mk4A (157)</p> <hr/> <p>1s5kA (153)</p>	C	19.61	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.63 (Å)  -----HMDIRITITSSDYEMVTSVNLNWWggrQLKE---KL--PR-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSD-----PETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGFDIEKgtktvngisVFAnydgpqdrvlfvkni--  glvprgsHMDIRQMNKTHLHWRGLRK-QL---WPGHpdDAHlaDGeEILQADHLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGIFVLPSEFRQGVAKOLIAAVQRWGTNKGCREMASDTSPEVTISQKVQALGFEEET-----RVI-FYRK-----rc</p> <p><b>SARST:</b> aliSize=130 (resi) RMSD=5.69 (Å)  h-----MDIRITITSSDYEMVTSVNLNWWggrQLKEKlRRLFFEHFQD-----TSFITSE--HNSMTGFLIGFQSQ-----SDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGFDIEKGTkTVnGISVFA-nydgpqdrvlfvkni  -glvprgshMDIRQMNKTHLHWRGLRKQLPCH-----PDDAHLADGEEilqadHLASFIAMADGVAIGFADASIRHDYvngcdsSPVVFLEGIFVLPSEFRQGVAKOLIAAVQRWGTNKGCREMASDTSPEVTISQKVQALGF---EETERV-IFYRKrc-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=23.53% (36/153) simi=35.29% (54/153)  -----HMDIRITITSSDYEMVTSVNLNWWggrQLKEKlRRLFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGFD-----iekgtktvngisvfanydgpqdrvlfvkni  glvprgsHMDIRQMNKTHLHWRGLRKQLPCHpdDAHLADGEEILQADHLA--ASFIAMADGVAIGFAdasIRHDYVNGDSSPVVIEGIFVLPSEFRQGVAKOLIAAVQRWGTNKGCREMASDTSPEVTISQKVQALGFEEETervifykrcc-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.04 (Å)  -----HMDIRITITSSDYEMVTSVNLNWWggrQLKEK---L--PR-LFFEHFQDTSFITSEHNSMTGFLIGFQSOS-----DPeTAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGFDIEKgtktvngisvfanydgpqdrVLFVKNi---  glvprgsHMDIRQMNKTHLHWRGLRK-QL---WPG-HpdDAHlaDGeEILQADHLA--SFIAMADGVAIGFADASIRHDYvngcdsSP-VVFLEGIFVLPSEFRQGVAKOLIAAVQRWGTNKGCREMASDTSPEVTISQKVQALGFEEET-----RVI-FYRKrc</p>
379	<p>1mk4A (157)</p> <hr/> <p>lufhA (155)</p>	C	9.68	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=3.13 (Å)  HMDIRITITSSDYEMVTSVNLNWWggrQLK-----LP--R-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGFDIEKgtktvngisVFAnydgpqdrvlfvkni--  TlMLTPMQTEEFRSYLYTt-----KHYAekvkagtwlpedaqllSkqvFTdILPrGLEtPHHLWLSKlNEKDlVGVWlHAEpEHPOQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQTGFQET-D-----VVM-----S-----kkl</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=8.37 (Å)  hmdirtitssd-----YEMVTSVNLNWWGROLKEKlprlffehfQDTSFITSEHNSMTGFLIGFQSOSDPE-TAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGfdiEKGTKTV----ngisvfanyd  -----imltpmqteefrsyltyttkhyAekvkagtwlpedaqllSKQVFTDLPRLTETPHHH-----WSLKLNEKDlVGVWlHAEPEHPQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQT---FQETDVMskkl-----  pgqdrvlfvkni</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=12.90% (20/155) simi=25.81% (40/155)  hmdirtitssdyemvtsvlnnewggrqlkek-----LP--R-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGfdiEKGTKTV----ngisvfanyd  -----imltpmqteefrsyltyttkhyAekvkagtwlpedaqllSkqvFTdILPrGLEtPHHLWLSKlNEKDlVGVWlHAEPEHPQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQTGFQETDVMskkl-----  kgtktvngisvfanydgpqdrvlfvkni</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=2.56 (Å)  hm--DIRITITSSDYEMVTSVNLNWWggrQLKE-----LP--RL-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGfdiEkgtktvngisvfanydgpqdrVLFVKNi  --TlMLTPMQ-TEEFRSYLYTt-----KHYAekvkagtwlpedaqllSkqvFTdILPrGLEtPHH-HLWLSKlNEKDlVGVWlHAEpEHPOQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQTGFQET-----DVMskkl</p>
380	<p>1mk4A (157)</p> <hr/> <p>lufhB (154)</p>	C	10.39	<p><b>TM-align:</b> aliSize=130 (resi) RMSD=3.20 (Å)  HMDIRITITSSDYEMVTSVNLNWWggrQLK-----LP--R-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGFDIEKgtktvngisVFAnydgpqdrvlfvkni--  -lMLTPMQTEEFRSYLYTtK-H--yAEEvkagtwlpedaqllSkqvFTdILPrGLEtPHHLWLSKlNEKDlVGVWlHAEpEHPOQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQTGFQET-D-----V-VM----SK-----kl</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=8.25 (Å)  hmdirtitssd-----YEMVTSVNLNWWGROLKEKlprlffehfQDTSFITSEHNSMTGFLIGFQSOSDPE-TAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGfdiEKGTKTV----ngisvfanyd  -----imltpmqteefrsyltyttkhyAekvkagtwlpedaqllSKQVFTDLPRLTETPHHH-----WSLKLNEKDlVGVWlHAEPEHPQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQT---FQETDVMskkl-----  pgqdrvlfvkni</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=12.99% (20/154) simi=25.97% (40/154)  hmdirtitssdyemvtsvlnnewggrqlkek-----LP--R-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGfdiEKGTKTV----ngisvfanyd  -----imltpmqteefrsyltyttkhyAekvkagtwlpedaqllSkqvFTdILPrGLEtPHH-HLWLSKlNEKDlVGVWlHAEPEHPQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQTGFQETDVMskkl-----  gtktvngisvfanydgpqdrvlfvkni</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.51 (Å)  HMDIRITITSSDYEMVTSVNLNWWggrQLK-----LP--R-LFFEHFQDTSFITSEHNSMTGFLIGFQSOSDPETAYIHFSGVHPDFRKMQIGKQLYDVF IETVKORGC TRVKCVTSPVNVKVS IAYHTKLGfdiEkgtktvngisvfanydgpqdrVLFVKNi  -lMLTPMQTEEFRSYLYTtK-----HYAekvkagtwlpedaqllSkqvFTdILPrGLEtPHH-HLWLSKlNEKDlVGVWlHAEpEHPOQEAfYDFLYEPYRGKYAKALAAALDQAARSMIRKLSLHVFAHQTARKLYEQTGFQET-----DVMskkl</p>

381	<p>1mk4A (157)</p> <hr/> <p>1z4eA (150)</p>	C	18.67	<p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.82 (Å)  HMDIRTISSYEMVTSVLNEwGGROLKEK-----L--PR-LFFEHFODTSFITSEHNSMTGFLIGFQSQSD---PETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvFanYDGPgqdrvlfvkni-  VVTIREATEGLEQMVHMLAD-DVLGRKRERYekplpvsYvrAFKEIKKDKNNELIVACNGEEIVGMLQVTFTPYLtyqgSWRRTIEGVRTISAAARGGIGSOLVCWATERAKERGCHLIQLTTDKORPDALRFYEQLGFKASH-----EG--LKM-----f</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=6.83 (Å)  h-MDIRTISSYEMV-----TSLVNEWGGROLKEKLPRLFFEHFO-----DTSFITS--EHSMTGFLIGFQSQSDPETAYIHFS--GVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDi EKgktvngisvfanydgpqdrvlfvkni--i  -hVTIREATEGLEQMVHMLAD-DVLGRKRERYEKPL-----VSVYVRAFKKIKKDKNNELIVACNGEEIVGMLQVTFTPYLTYQGSWRATIEGVRTISAAARGGIGSOLVCWATERAKERGCHLIQLTTDKORPDALRFYEQLGFKASH-----EG--LKM-----EGLKMHf-</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=26.67% (40/150) simi=42.00% (63/150)  HMDIRTISSYEMVTSVLNEwGGROLKEK-----L--PR-LFFEHFODTSFITSEHNSMTGFLIGFQSQSDPETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKGTK---tvngisvfanydgpqdrvlfvkni  VVTIREATEGLEQMVHMLAD-DVLGRKRERYEKPL-----VSVYVRAFKKIKKDKNNELIVACNGEEIVGMLQVTFTPYLTYQGSWRATIEGVRTISAAARGGIGSOLVCWATERAKERGCHLIQLTTDKORPDALRFYEQLGFKASHHEGLKMHf-----</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.26 (Å)  HMDIRTISSYEMVTSVLNEwGGROLKEK-----L--PR-LFFEHFODTSFITSEHNSMTGFLIGFQSQSD---PETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvfanydgpqdrvlfvkni  VVTIREATEGLEQMVHMLAD-DVLGRKRERYekplpvsYvrAFKEIKKDKNNELIVACNGEEIVGMLQVTFTPYLtyqgSWRRTIEGVRTISAAARGGIGSOLVCWATERAKERGCHLIQLTTDKORPDALRFYEQLGFKASH-----EG--LKM-----HEGLKMHf-</p>
382	<p>1mk4A (157)</p> <hr/> <p>2d4pA (130)</p>	C	13.85	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.61 (Å)  hMDIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSD---PETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvFanYDGPgqdrvlfvkni--  -mRFRPFTEELDRNLRLAG-----K--RPVSLGALRFfARTGHSEFLAEEGEPMGALAQAQVWQgeATVTVTRIEGR-----SVEALRGILRAVVKSAAYDAVYVEVALHLD-PERKELEEALKAEGFAIGPLV-----LA--VRVLG-----sr</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=4.02 (Å)  hm-DIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSDPETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDi EKgktvngisvfanYDGP-gqdrvlfvkni  --mRFRPFTEELDRNLRLAG-----K--RPVSLGALRFfARTGHSEFLAEEGEPMGALAQAQVWQgeATVTVTRIEGR-----RS--VEALRGILRAVVKSAAYDAVYVEVALHLD-PERKELEEALKAEGFAIGPLV-----LAVR--LGSr-----</p> <p><b>BLAST:</b> aliSize=20 (resi) iden=12.31% (16/130) simi=15.38% (20/130)  hMDIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSDPETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvfanYDGP-gqdrvlfvkni  -mRFRPFTEELDRNLRLAG-----K--RPVSLGALRFfARTGHSEFLAEEGEPMGALAQAQVWQgeATVTVTRIEGR-----RS--VEALRGILRAVVKSAAYDAVYVEVALHLD-PERKELEEALKAEGFAIGPLV-----LAVR--LGSr-----</p> <p>vnkvsiahyhtklgfdiekgtktvngisvfanydgpqdrvlfvkni</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=2.25 (Å)  hMDIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSD---PETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvfanYDGP-gqdrvlfvkni  -mRFRPFTEELDRNLRLAG-----K--RPVSLGALRFfARTGHSEFLAEEGEPMGALAQAQVWQgeATVTVTRIEGR-----SVEALRGILRAVVKSAAYDAVYVEVALHLD-PERKELEEALKAEGFAIGPLV-----LV--LA-----VRVLGSR</p>
383	<p>1mk4A (157)</p> <hr/> <p>2g3tA (169)</p>	C	13.38	<p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.85 (Å)  HMDIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSD---PETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvFanYDGPgqdrvlfvkni-----  KFVIRPATAAACSDILRLIKELAKYEMEEOVILTEKDLLEDGfGehpFYHCLVAEVPKehwtpghSIVGAMYYFTY-pwiGKLLYLEDFFMSSYRGGFGLSEILKNLSQVAMRCRSSMHFLVAEWNEPSINFYKRRASDLSsEEG-----WR-LFKI-----dkeyllkmatee</p> <p><b>SARST:</b> aliSize=124 (resi) RMSD=4.62 (Å)  h-MDIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSDPETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvfanydgpqdrvlfvkni  -kFVIRPATAAACSDILRLIKELAKYEMEEOVILTEKDLLEDGfGehpFYHCLVAEVPKehwtpghSIVGAMYYFTY-pwiGKLLYLEDFFMSSYRGGFGLSEILKNLSQVAMRCRSSMHFLVAEWNEPSINFYKRRASDLSsEEGwrlfkidkeyllkmatee-----</p> <p>pgqdrvlfvkni</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=10.83% (17/157) simi=22.93% (36/157)  hmdirtitssyemvtsvlnewggrolkeklprlffehfodtsfi-----SMTGFLIGFQSQSDPETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvfanYDGP-gqdrvlfvkni  -----kfvirpataadcsdilrlikelakyeemeoqviltekdllledgfgehpfyhclvaevpkehwpghSIVGAMYYFTY-pwiGKLLYLEDFFMSSYRGGFGLSEILKNLSQVAMRCRSSMHFLVAEWNEPSINFYKRRASDLSsEEGwrlfkidkeyllkmatee-----</p> <p>L-----fdiekgtktvngisvfanydgpqdrvlfvkni  R-----saseegwrlfkidkeyllkmatee-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.50 (Å)  HMDIRTISSYEMVTSVLNEwGGROLKEKLPRLFFEHFO-----DTSFITSEHNSMTGFLIGFQSQSD---PETAYIHFSGVHPDFRKMQIGKOLYDVFIEETVKORGCTRVKCVTSPVNKVSIAHYHTKLGFDI EKgktvngisvfanYDGP-gqdrvlfvkni  KFVIRPATAAACSDILRLIKELAKYEMEEOVILTEKDLLEDGfGehpFYHCLVAEVPKehwtpghSIVGAMYYFTY-pwiGKLLYLEDFFMSSYRGGFGLSEILKNLSQVAMRCRSSMHFLVAEWNEPSINFYKRRASDLSsEEGwrlfkidkeyllkmatee-----</p>



384	<p><b>1mk4A</b> (157)</p> <hr/> <p><b>2jevA</b> (169)</p>	C	13.38	<p><b>TM-align:</b> aliSize=135 (resi) RMSD=2.97 (Å)        -HMDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIE--KGTktvngisvFAnYDGPgqdrvlfvkni-----        akFVLRPATAAACSDILRLRLIKELAKYEYEMEEQVILTEKDLLEDGFgehPfyHCLVAEVPKehwtpeghSIVGFIAMYYFTY-ypwiGKLLYLEDFFVMSDYRGGIGSEILKLNLSQVAMRCRCSSMHFLVAEWEPSINFYKRRASDLSsEEG-----WR-LFKI-----dkeyllkmate</p> <p><b>SARST:</b> aliSize=124 (resi) RMSD=4.49 (Å)        h--MDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIE-----ekgtktvngisvfyanydg        -akFVLRPATAAACSDILRLRLIKELAKYEYEMEEQVILTEKDLLEDGFgehPfyHCLVAEVPKehwtpeghSIVGFIAMYYFTY-ypwiGKLLYLEDFFVMSDYRGGIGSEILKLNLSQVAMRCRCSSMHFLVAEWEPSINFYKRRASDLSsEEGwrlfkidkeyllkmate-----        pgqdrvlfvkni</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=10.83% (17/157) simi=22.93% (36/157)        hmdirtitssdyemvtsvlnewggrlkeklprlffehfqtstfi-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIE-----ekgtktvngisvfyanydgpgqdrvlfvkni        -----akfvirpataadcsdilrlikelakyeymeeqviltedkllledgfgehpfyhclvaevpkehwtpeghsivgfiamyyftypwiGKLLYLEDFFVMSDYRGGIGSEILKLNLSQVAMRCRCSSMHFLVAEWEPSINFYKRRASDLSsEEGwrlfkidkeyllkmate-----        KL-----fdi ekgtktvngisvfyanydgpgqdrvlfvkni        RRasdl sseegwrlfkidkeyllkmate-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.23 (Å)        -HMDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIE--KGTktvngisvfyanydgpgqdrvlfvkni--        akFVLRPATAAACSDILRLRLIKELAKYEYEMEEQVILTEKDLLEDGFgehPfyHCLVAEVPKehwtpeghSIVGFIAMYYFTY-ypwiGKLLYLEDFFVMSDYRGGIGSEILKLNLSQVAMRCRCSSMHFLVAEWEPSINFYKRRASDLSsEEG-----WR-LFKIDKey        -----        llkmate</p>
385	<p><b>1mk4A</b> (157)</p> <hr/> <p><b>2vbqA</b> (147)</p>	C	20.41	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.75 (Å)        -HMDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIEKgtktvngisvFANYdGPgqdrvlfvkni--        sHMDIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRK-----rc</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=4.47 (Å)        h--MDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIEKGTktvngisvfyanydgpgqdrvlfvkni        -shMDIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRKrc-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=24.49% (36/147) simi=36.73% (54/147)        -HMDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIE-----iekgktktvngisvfyanydgpgqdrvlfvkni        sHMDIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRKrc-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.16 (Å)        -HMDIRITITSSDYEMVTSVLNFW-WGGROLKEK1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIEKgtktvngisvfyanydgpgqdrvlfvkni--        sHMDIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRKrc-----</p>
386	<p><b>1mk4A</b> (157)</p> <hr/> <p><b>2vbqB</b> (144)</p>	C	19.44	<p><b>TM-align:</b> aliSize=130 (resi) RMSD=2.58 (Å)        hmdirtitssdyemvtsvlnfw-wggrolkek1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIEKgtktvngisvFAnYDGPgqdrvlfvkni--        --DIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRK-----rc</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=4.44 (Å)        hmdirtitssdyemvtsvlnfw-wggrolkek1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIEKGTktvngisvfyanydgpgqdrvlfvkni        ---DIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRKrc-----</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=23.61% (34/144) simi=36.11% (52/144)        hmdirtitssdyemvtsvlnfw-wggrolkek1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIE-----iekgktktvngisvfyanydgpgqdrvlfvkni        --DIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRKrc-----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.09 (Å)        hmdirtitssdyemvtsvlnfw-wggrolkek1pRLFFEHFQDTSFITSEHN-----SMTGFLIGFOSQSD---PETAYIHFGSHHPDFRKMQIGKOLYDVFIEITVKORGCITRVKCVTSPVNVKVSIAVHTKLGFDIEKgtktvngisvfyanydgpgqdrvlfvkni--        --DIRQMNKTHLHWRGLRKQLPCHPDDAHLADGEEILQADHLASFAMADGVAIGFADASIRHdyvngcdsSPVVVLEGFIFLPSFRQGVAKOLIAAVQVWGTNKGCREMASDTSPEENTISQKVQALGFEETE-----RVIFYRKrc-----</p>

387	<p><b>lobpA (158)</b></p> <hr/> <p><b>1cj5A (162)</b></p>	C	14.56	<p><b>TM-align:</b> aliSize=121 (resi) RMSD=3.37 (Å)  qeee-----AEQNLSLSPRTVYIGSTNPEKI-OENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODD-GTYVA-YEGONVFKIVSLSR-THVAHNI-VdkhGOT--TEL TGLFV-KLNvededlekfwkltedkgidkknvvnf-----  ----ayvtqtmKGLDIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPTP-G-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-S---AEPeQSLVCOCLVRTP-----evddealekfdkalkalpnhirlsfntq</p> <p>NedHPHpe  EE--QCHI-</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=5.19 (Å)  qe----EEAQNLSLSPRTVYIGSTNPEKIOE-NGFPRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKOD-DGTYVA-YEGONVFKIVSLSR-THVAHNI--VDKHGOTTTELGT-----L FV-KL-----nvededlekfwkltedkgidkknvvn  ----ayvtqTMKGLDIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPTP-G-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-SaEPEQSLVCOCLVRtpevddalekfdkalkalpnhirlsfntqleeqch-----</p> <p>flenedhphpe  -----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=15.82% (25/158) simi=34.18% (54/158)  qeeaeq-----NLSELSPRTVYIGSTNPEKIO-ENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKOD-DGTYVA-YEGONVFKIVSLSR-THVAHNI-VDKHGOTTTELGT-FV-KLNVEDDLEKFWK-----l tedkgidkknvvnflenedh  ----ayvtqtmkgldIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPTP-G-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-SaEPEQSLVCOCLVRTPEDDALKALPnhirlsfntqleeqch-----</p> <p>phpe  -----</p> <p><b>Proposed:</b> aliSize=140 (resi) RMSD=2.77 (Å)  qeee-----A-eQnLSLSPRTVYIGSTNPEKIO-ENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKOD-dG-TYVA-YEGONVFKIVSLSR-THVAHNI-VdkhGOT--TEL TGLFV-K-LNVEDDLEKFWKLTEDKGI DkKNVNFL-E----nedHPHpe  ----ayvtqtmkgldIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPT-PE-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-S---AEPeQSLVCOCLVRtp-EVDDALKALPnhirlsfntqleeqch-----CHI--</p>
388	<p><b>lobpA (158)</b></p> <hr/> <p><b>ldv9A (162)</b></p>	C	15.19	<p><b>TM-align:</b> aliSize=120 (resi) RMSD=2.92 (Å)  qeee-----AEQNLSLSPRTVYIGSTNPEKIOE-NGFPRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODD-GTYVA-YEGONVFKIVSLSR-THVAHNI-VdkhGOT--TEL TGLFV-KLNvededlekfwkltedkgidkknvvnflened-----  ----ayvtqtmKGLDIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPT-PE-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-Sa--EPeQSLVCOCLVRTP-----evddealekfdkalkalpnhirlsfn</p> <p>----HPHPE-  ptqlEEQChi</p> <p><b>SARST:</b> aliSize=124 (resi) RMSD=11.51 (Å)  qeeaeqnls-----ELSPRTVYIGSTNPEKIO-ENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKOD-DGTYVA-YEGONVFKIVSLSR-THVAHNI--VDKHGOTTTELGT-FV-KLNVEDDLEKFWKLTEDK-----gidkknvvnflene  ----ayvtqtmkgldIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPT-PE-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-SaEPEQSLVCOCLVRTPEDDALKALPnhirlsfntqleeqchi-----</p> <p>dhphpe  -----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=15.82% (25/158) simi=34.18% (54/158)  qeeaeq-----NLSELSPRTVYIGSTNPEKIO-ENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKOD-DGTYVA-YEGONVFKIVSLSR-THVAHNI-VDKHGOTTTELGT-FV-KLNVEDDLEKFWK-----l tedkgidkknvvnflened  ----ayvtqtmkgldIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPTP-G-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-SaEPEQSLVCOCLVRTPEDDALKALPnhirlsfntqleeqchi-----</p> <p>hphpe  -----</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=2.11 (Å)  qeee-----AEQNLSLSPRTVYIGSTNPEKIOE-NGFPRTYFRELVFDDKkTVDYFYSVKR--dgKWKVHVKATKODD-GTYVA-YEGONVFKIVSLSR-THVAHNI--VdkhGOT--TEL TGLFV-K-LNVEDDLEKFWKLTEDKGI DkKNVNFL-EN---edhPHPE  ----ayvtqtmkgldIQKVAITVYSLAMAASDI SLLDQSAFLRVVVEELKPT-PE-DLEILLQKWENDECAQKKIIEETKiPAVFKI-DALNE-KVLVLDTDYKYL LFCME-Sa----EpeQSLVCOCLVRtpevddALKALPnhirlsfntqleeqch-----QCHI</p>
389	<p><b>lobpA (158)</b></p> <hr/> <p><b>lpboA (157)</b></p>	N	91.72	<p><b>TM-align:</b> aliSize=147 (resi) RMSD=0.99 (Å)  qeeaeq-----NLSELSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-EN---EDhphpe  -----aqeeaeqNLSELSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-EN---EDhphpe</p> <p><b>SARST:</b> aliSize=147 (resi) RMSD=4.00 (Å)  qe---EEAQNLSLSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-----enedhphpe  --aqeEEAQNLSLSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-enedhph-----</p> <p><b>BLAST:</b> aliSize=155 (resi) iden=98.73% (155/157) simi=98.73% (155/157)  - QEEAEQNLSLSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-ENEDHphpe  a QEEAEQNLSLSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-ENEDHphpe</p> <p><b>Proposed:</b> aliSize=153 (resi) RMSD=0.81 (Å)  QEEAEQNLSLSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-EN---EDhphpe  AQEEAEQNLSLSPWRTVYIGSTNPEKIQENGFRTYFRELVFDDKkTVDYFYSVKRDGKWKVHVKATKODDGTYYADYEGONVFKIVSLSRTHLVAHNI-VDKHGOTTTEL TGLFV-KLNVEDDLEKFWKLTEDKGI DkKNVNFL-enedhph-----</p>

390	lobpA (158)	C	7.59	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=3.64 (Å)  qeee-----AEONLSELGSPRTVYIGSTNPEKIOENgpfrTYFrELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKODDG-TVYADY-----EGONVFKIVSLSRTHLVAHININVDKHGOTTEITGLFVKLNvededlekfwkltedkqidkknvvn-----  ----actknaiaqtgFNKDKYFNGDVVYVTDYLDLEDDVPKR---YCAA-LAAGTASGKLEALYHYDPKTDQTFYDSELQVESLgkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGNAAGDLYAVLNrnkDAAAGDKVKSavsaaat</p> <p>-----FLNEdhphpe-----  lefskfstkenncaYDNDSD-----lkslltk</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=16.09 (Å)  qeeaeqnlselfsgpwrtvvyigstnpeki-----ENG----PF--RTYFRELVFdEKG----TVDFYFSVKRDGKWKNVHVKATKqDDGTYVAIY-----EGONVFKIVSLSRTHLVAHININVDKHGOTTEITGLFV---KLNVEDEDLEKFWklteD  -----actknaiaqtgFNkdkyFNgdVWVYVTDYLD-LPPDvpkrYCAALAAAGTASGKLEALYHYDP-KTQDTFYVselqveslgkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGNAAGDLYAVLNrnkDAAAGDKVKSAVS----A</p> <p>KGIDKKNVNFLEEDHPH-----pe  ATLEFSKFIStkENNCAyDnds lkslltk--</p> <p><b>BLAST:</b> aliSize=19 (resi) iden=8.86% (14/158) simi=12.03% (19/158)  qeeaeqnlselfsgpwrtvvyigstnpekiqengpfrtyfrELVfddekgtvdfyfsvkrdGkwknvhvkat-----ODDGTVAIYEGINVKINSLSRTHLVAHNIIN---VDKHL-----  -----actknaiaqtgfnkdkyfngdvwyvtdyldlepddvpkrycaalaagtasgKLEALHYDPKTDQTFYDSELQVESLgkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGNAAGDLYAVLNrnkDAAAGDKVKSAVS----A</p> <p>-----qteltglfvkInvededlekfwkltedkqidkknvvnflenedhphpe  htclhkgkaagdlyavlnrnkdaaagdkvksavsaaatlefskfstkenncaYDnds lkslltk-----</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.38 (Å)  qeeae-----ONL-SGLSGPRTVYIGSTNPEKIOENgpfrTYFrELVFD--dEgTVDFYFSVK--rdGKWKNVHVKATKODDG-TVYADY-----eGONVFKIVSLSRTHLVAHININVDKHGOTTEITGLFVKLNVEdeDLEKFWKLTEDKGI DKKNVNFLEEN--  -----actknaiaqtgfnKDKYFN-GDVVYVTDYLDLEDDVPKR---YCAA-LAGTas-GK-LKEALYHYDPK--TQDTFYDSELQVESLgkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGNAAGDLYAVLNrnkDAA--AGDKVKSAVSAAATLEFSKFIStkENNc</p> <p>-----edhphpe  aydnds lkslltkh-----</p>
391	lobpA (158)	C	6.96	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=3.91 (Å)  qeee-----AEONLSELGSPRTVYIGSTNPEKIOENgpfrTYFrELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKODDG-TVYADY-E-----GONVFKIVSLSRTHLVAHININVDKHGOTTEITGLFVKLNvededlekfwkltedkqidkknvvn-----  ----mkctknaiaqtgFNKDKYFNGDVVYVTDYLDLEDDVPKR---YCAA-LAAGTASGKLEALYCYDPKTDQTFYDSELQEESpGkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGKDLGDLYAVLNrnkDAAAGDKVKSAVSAAATLEFSKFIStkENNc</p> <p>-----FLNEdhphpe-----  slkfsdfistkdnkceYDNVS-----lkslltk</p> <p><b>SARST:</b> aliSize=142 (resi) RMSD=16.23 (Å)  qeeaeqnl-----SELGSPRTVYIGSTNPEKIOENgpfrTYFrELVFD-----PFRTYFRELVFDEKGTVDYFYSVKRDGKW-NVHVKATKODDITY-VADYEONVF-KIVSLSRTHLVAHININVDKHGOTTEITGLFVKLNVEdeDLEKFWklteDKGIDKKNVNFLEEDHPH-  -----mkctknaiaqtgfnkdkyfngdvwyvtdyldleddvpkrYcaalaagtasGKLEALYCYDPKTDQTFYDSELQEESpGkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGKDLGDLYAVLNrnkDAAAGDKVKSAVSAAATLEFSKFIStkENNc</p> <p>-----pe  vslkslltk--</p> <p><b>BLAST:</b> aliSize=5 (resi) iden=3.16% (5/158) simi=3.16% (5/158)  qeeaeqnlselfsgpwrtvvyigstnpekiqengpfrtyfrELVfddekgtvdfyfsvkrdGkwknvhvkatkqd-----GTYADY-----  -----mkctknaiaqtgfnkdkyfngdvwyvtdyldlepddvpkrycaalaagtasgkLKEALYCYDPKTDQTFYDSELQEESpGkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGKDLGDLYAVLNrnkDAAAGDKVKSAVSAAATLEFSKFIStkENNc</p> <p>-----egqnvfkivslsrthlvahninvdkhgqteltglfvkInvededlekfwkltedkqidkknvvnflenedhphpe  salihtclhkgkdlgdlyavlnrnkdnagdkvkgavtaaslkfsdfistkdnkceYDnds lkslltk-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.55 (Å)  qeee-----AEONLSEL-S-GPRTVYIGSTNPEKIOENgpfrTYFrELVFD--deEgTVDFYFSVK--rdG-KWKNVHVKATKODDG-TVYADY-----eGONVFKIVSLSRTHLVAHININVDKHGOTTEITGLFVKLNVEdeDLEKFWKLTEDKGI DKKNVNFLEEN--  ----mkctknaiaqtgFNKDKYFNGDVVYVTDYLDLEDDVPKR---YCAA-LAAGTasg--L-KEALYCYDPK--TQDTFYDSELQEE-SPGkYtanfkkvdkngnvkvavtagNYTITVMYADSSALIITCLHKGKDLGDLYAVLNrnkDAA--AGDKVKSAVSAAATLEFSKFIStkENNc</p> <p>-----edhphpe  DnkceYDnds lkslltkh-----</p>
392	1q2yA (140)	C	12.14	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.41 (Å)  KAVIAKNEEOKDAFYVREEVFvkeqNPAAEEI DELE-N---E--SEHIVVYDGEKPVAGRWRMKD-----GYGKERICVTKSHRSAGVGGIIMKALEKAAADGASGFILNAO--TQ-AVPFYKKHGYRVLSEkefldaGiphlqmmkd----  mDIRQMN-KTHLEHWRLRKQLWP---GHPDDAHLADGeeilqA---DHLASFIAMADGVAIFADASIRHdyvngcdssPVVFLGIFVLPSPFRQGVAKQLIAVQRWGTNKC CREMASDTSpenTisQKVHQALGFEETERVIF-----yrkrC</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=6.00 (Å)  m-KAVIAKNEEOKDAFYVREEVFvkeqNPAAEEI DELE-N---E--SEHIVVYDGEKPVAGRWRMKDGYGKLeRI-----CYLTKSHRSAGVGGIIMKALEKAAADGASGFILNAO--TQ-AVPFYKKHGYRVLSEkefldaGiphlOMMS--d  -mDIRQMN-KTHLEHWRLRKQLWP---GHPDDAHLADGeeilqA---DHLASFIAMADGVAIFADASIRHdyvngcdssPVVFLGIFVLPSPFRQGVAKQLIAVQRWGTNKC CREMASDTSpenTisQKVHQALGFEETERVIF-----RVI FYRrc-</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=14.29% (20/140) simi=24.29% (34/140)  mkaviakneeokdafyvreevfveqnpvae-----mdirqmknkthlehwrlrkqlwghpddahladgEEIDELNESEHIVVYDGEKPVAGRWRMKDGI---G-----KLERICVTKSHRSAGVGGIIMKALEKAAADGASGFILNAO--TQ-AVPFYKKHGYRVLSEkefldaGiphlOMMS--d  -----vpfykhhgyrvlsekefldaGiphlqmmkd</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=2.02 (Å)  KAVIAKNEEOKDAFYVREEVFvkeqNPAAEEI DELE-N---E--SEHIVVYDGEKPVAGRWRMKD-----GYGKERICVTKSHRSAGVGGIIMKALEKAAADGASGFILNAO--TQ-AVPFYKKHGYRVLSEkefldaGIPHLOM-mkd  mDIRQMN-KTHLEHWRLRKQLWP---GHPDDAHLADGeeilqA---DHLASFIAMADGVAIFADASIRHdyvngcdssPVVFLGIFVLPSPFRQGVAKQLIAVQRWGTNKC CREMASDTSpenTisQKVHQALGFEETERVIF-----RVI FYRrc-</p>
	1s3zB (145)			

393	<p>1q2yA (140)</p> <hr/> <p>2o28A (182)</p>	C	15.71	<p><b>TM-align:</b> aliSize=121 (resi) RMSD=3.18 (Å)  pdetpmdpsllkevdsqntatfspaispthpgeglvrlrplctadlnrgffkvlglqletgvspeqfmsfehmksgdyvvtvedvtlgqivaatliahkfihscaKRVRVDDVVSDECGKQLKLLSTLTLSSKLNCKYKITLCLPQNGFYKFGYTSSENYMCRRF</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=7.47 (Å)  m-pdetpmdpsllkevdsqntatfspaispthpgeglvrlrplctadlnrgffkvlglqletgvspeqfmsfehmksgdyvvtvedvtlgqivaatliahkfihscaKRVRVDDVVSDECGKQLKLLSTLTLSSKLNCKYKITLCLPQNGFYKFGYTSSENYMCRRF</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=12.86% (18/140) simi=20.71% (29/140)  mkaviakneeqlkdafyvreevfveqnpaeecidelenehivvydgekpvagrwrmkdgy-pdetpmdpsllkevdsqntatfspaispthpgeglvrlrplctadlnrgffkvlglqletgvspeqfmsfehmksgdyvvtvedvtlgqivaatliahkfihscaKRVRVDDVVSDECGKQLKLLSTLTLSSKLNCKYKITLCLPQNGFYKFGYTSSENYMCRRF</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=2.20 (Å)  pdetpmdpsllkevdsqntatfspaispthpgeglvrlrplctadlnrgffkvlglqletgvspeqfmsfehmksgdyvvtvedvtlgqivaatliahkfihscaKRVRVDDVVSDECGKQLKLLSTLTLSSKLNCKYKITLCLPQNGFYKFGYTSSENYMCRRF</p>
394	<p>1q2yA (140)</p> <hr/> <p>2vbqB (144)</p>	C	12.14	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.55 (Å)  mkAVIAkNEEQIKD-AFYVREEVfVkeqnpAEeEDEL-EN-E--SEHIVVYDGEKPVAGRWRMKD-----GYGKLERICVLSKSHRSAGVGGIIMKALEKAAADGASGFIILNAO--TOAVPFYKHHYRVLSEKEFLdagiphlqmmkd----</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=5.48 (Å)  mkaviakneeqlkdafyvreevfveqnpaeecidelenehivvydgekpvagrwrmkd-----GYGKLERICVLSKSHRSAGVGGIIMKALEKAAADGASGFIILNAO--TOAVPFYKHHYRVLSEKEFLdagiphlqmmkd-----</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=14.29% (20/140) simi=24.29% (34/140)  mkaviakneeqlkdafyvreevfveqnpaeecidelenehivvydgekpvagrwrmkdgy-pdetpmdpsllkevdsqntatfspaispthpgeglvrlrplctadlnrgffkvlglqletgvspeqfmsfehmksgdyvvtvedvtlgqivaatliahkfihscaKRVRVDDVVSDECGKQLKLLSTLTLSSKLNCKYKITLCLPQNGFYKFGYTSSENYMCRRF</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=2.02 (Å)  mkAVIAkNEEQIKD-AFYVREEVfVkeqnpAEeEDEL-EN-E--SEHIVVYDGEKPVAGRWRMKD-----GYGKLERICVLSKSHRSAGVGGIIMKALEKAAADGASGFIILNAO--TOAVPFYKHHYRVLSEKEFLdagiphlqmmkd-----</p>
395	<p>1q2yA (140)</p> <hr/> <p>2vxkA (165)</p>	C	18.57	<p><b>TM-align:</b> aliSize=120 (resi) RMSD=2.89 (Å)  entplfspdliavlpadytirplcrsdYkrgYLDLRLVLT---TVGDI-neeqwnsryewIraSdeYLLVVCDEGRIVGTSLVVERKfihsIgmVCHIEDIAEKGOQKGLLRITQALDYVAEKVCYKTLDCSEANEGEYICCFKRAGLEMAHY-----</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=6.12 (Å)  mkavi-entplfspdliavlpadytirplcrsdYkrgYLDLRLVLT---TVGDI-neeqwnsryewIraSdeYLLVVCDEGRIVGTSLVVERKfihsIgmVCHIEDIAEKGOQKGLLRITQALDYVAEKVCYKTLDCSEANEGEYICCFKRAGLEMAHY-----</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=17.86% (25/140) simi=27.86% (39/140)  mkaviakneeqlkdafyvreevfveqnpaeecidelenehivvydgekpvagrwrmkdgy-pdetpmdpsllkevdsqntatfspaispthpgeglvrlrplctadlnrgffkvlglqletgvspeqfmsfehmksgdyvvtvedvtlgqivaatliahkfihscaKRVRVDDVVSDECGKQLKLLSTLTLSSKLNCKYKITLCLPQNGFYKFGYTSSENYMCRRF</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=2.00 (Å)  entplfspdliavlpadytirplcrsdYkrgYLDLRLVLT---TVGDI-neeqwnsryewIraSdeYLLVVCDEGRIVGTSLVVERKfihsIgmVCHIEDIAEKGOQKGLLRITQALDYVAEKVCYKTLDCSEANEGEYICCFKRAGLEMAHY-----</p>

396	1s60A (152)	C	13.82	<p>TM-align: aliSize=132 (resi) RMSD=2.09 (Å) lvprgshDIROMNKT--HLEHWRGTRKOLWPG--HPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVngcdsSPVVFEGIFLPSFRORGVAKOIIAAVORWGTNKCREMASDTSPE--N-----TISOKVHOALCFEETERVLFYRkr----- -----GIRSEFDdRNNpvLKDQLSDLRLTWPEEYGDSSAAEEVEEM-NPERIAVAVDQDELVGTGIIPOYGD-----ITGWEHPLVWESRRKNOIGTRLVNYLEKEVASRGGITTYLGGDDLdhtltsqtdlyehtfdkvasiqnlreHPYEFYKLYKIVGVLpnangwkdpiw</p> <p>----- maktiiprps</p> <p>SARST: aliSize=108 (resi) RMSD=3.30 (Å) lvprgshMDIROMNKT--HLEHWRGTRKOLWPG--HPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVNGCDSSPVVflegifLPSFRORGVAKOIIAAVORWGTNKCREMASDTS----- -----mIIESEFDdRNNPVKdqLSDLRLTWPEEYGDSSAAEEVEEM-NPERIAVAVDQDELVGTGII-----POYIIT--GWEHPLVWESRRKNOIGTRLVNYLEKEVASRGGITTYLGGDDLdhtltsqtdlyehtfdkvasiqnlreHPYEFYKLYKIVGVLpnangwkdpiw</p> <p>-----pentisqkvhqaalgeeterVIFYRkr iiprps-----</p> <p>BLAST: aliSize=56 (resi) iden=18.42% (28/152) simi=36.84% (56/152) lvprgshmdiRqmkthlehwrg-----KLRKOLWPGHPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVNGCDSSPVVflegifLPSFRORGVAKOIIAAVORWGTNKCREM-----ASTSPENTISOKVHOALCFEETERVLFYR----- -----miisefdRNNpvLkdqLSDLRLTWPEEYGDSSAAEEVEEMNPERIAVAVDQDELVGTGII-----ITWELHPLV-----ESSRRKNOIGTRLVNYLEKEVASRGGITTYLGGDDLdhtltsqtdlyehtfdkvasiqnlreHPYEFYKLYKIVGVLpnangwkdpiw</p> <p>-----rc pnangwkdpiwaktiiprps-----</p> <p>Proposed: aliSize=135 (resi) RMSD=1.73 (Å) lvprgshDIROMNKT--HLEHWRGTRKOLWPG--HPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVngcdsS-PVVVFEGIFLPSFRORGVAKOIIAAVORWGTNKCREMASDTSPE--N-----TISOKVHOALCFEETERVLFYR----- -----GIRSEFDdRNNpvLKDQLSDLRLTWPEEYGDSSAAEEVEEM-NPERIAVAVDQDELVGTGIIPOYGD-----GITGWEHPLVWESRRKNOIGTRLVNYLEKEVASRGGITTYLGGDDLdhtltsqtdlyehtfdkvasiqnlreHPYEFYKLYKIVGVLpnangwkdpiwMAK</p> <p>K-RC-----c TilPrpsa-</p>
	1b87A (181)			

397	1s60A (152)	C	8.82	<p>TM-align: aliSize=122 (resi) RMSD=2.93 (Å) lvprgSHMDIROMN--K-THEHWRGTRKOLWPG--GHPDdAHLA--DGEETLQADHLASFIAMADGVAITGFADASIRHDYVngcdsDSSPVVLEGIFLPSFRORGVAKOIIAAVORWGTNKCREMASDTSpENTIsakv-----HQalGfeeteerviFYRkr----- -----GIRTRCRLGpdQvKSMRAALDIFGRDFGDVATYSQHOPdsYLGNLRSKTFIALAFDQEA VVGCALAAVYVLPKFEQ-----eQPRSEIYIDLAVSGEHRROGITATAINLLKHEANALGAYVIYVQAD-YGD-----dpavalyt--KL-----</p> <p>SARST: aliSize=107 (resi) RMSD=3.37 (Å) lvprgs-HMDIROMNKT--HLEHWRGTRKOLWPG--GHPDdAHLA--DGEETLQADHLASFIAMADGVAITGFADASIRHDYVngcdsSPVVFLEGIFLPSFRORGVAKOIIAAVORWGTNKCREMAS----- -----gIRTRCRLGPDQVKSMAALdlfgrefgdvatYSQHOPD-----SDYLGNLRSKTFIALAFDQEA VVGCALAAVYVLPKFEQ---PRSEIYIDLAVSGEHRROGITATAINLLKHEANALGAYVIYVQADYgddpavalYtk-----dtspentisqkvhqaalgeeteerviFYRkr-----</p> <p>BLAST: aliSize=9 (resi) iden=5.93% (8/136) simi=6.67% (9/136) lvprgshmdiRqmkthlehwrglrkqlwpgHPDdahladgeeilqadhlasfiAmadgvaigfadasirhdYVngcds----- -----giirtcrlgpdqvkSMRAALdlfgrefgdvatysqhQpdsdylgnllrsktfialaafDQEA VVGCALAAVYVLPKFEQprseiyidlavsgehrroGITATAINLLKHEANALGAYVIYVQADYgddpavalYtk-----</p> <p>-----rgvakqliaavqrgwtnkgcremasdtspentisqkvhqaalgeeteerviFYRkr gayviyVQADYgddpavalYtk-----</p> <p>Proposed: aliSize=120 (resi) RMSD=2.14 (Å) lvprgSHMDIROMN--KT--HLEHWRGTRKOLWPG--GHPDdAHLA--DGEETLQADHLASFIAMADGVAITGFADASIRHD-----YVngcdsSPVVFLEGIFLPSFRORGVAKOIIAAVORWGTNKCREMASDT--spentisakvhaalefeETE--RVIFYR--krcc -----GIRTRCRLGpdQvKSMRAALDIFGRDFGDVATYSQHOPdsYLGNLRSKTFIALAFDQEA VVGCALAAVYVLPKFEQ-----RSEIYIDLAVSGEHRROGITATAINLLKHEANALGAYVIYVQADY-----GDDpavalYtklC-----</p>
	1bo4B (136)			

398	1s60A (152)	C	13.16	<p>TM-align: aliSize=134 (resi) RMSD=2.83 (Å) lvprg---SHMDIROMNKT--HLEHWRGTRKOLWPG--GHPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVngcds-----SPVVFEGIFLPSFRORGVAKOIIAAVO--RWGTNKGCREMASDTSPenTiSOKVHOALCFEETERVIFYRkr----- -----htlpANEFRCCLTPEDAAGVFEIEREAFISVSGNC--pLNIDEVQHFTLCPELSGLWVVEGRVAFIIGSLWDEERL---tqeslahrprGHSALHALAHRSEFRQOKGSLWRYLHVGAQPAVRAVLMCED--A-LVPFYQRFGHPAGPCATV---vgs1tftemhcs1</p> <p>SARST: aliSize=137 (resi) RMSD=6.70 (Å) lvprgsh---MDIROMNKT--HLEHWRGTRKOLWPG--GHPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVN-----GCDSSPVVflegifLPSFRORGVAKOIIAAVORWGTN-KGCREMASDTSPEntiSOKVHOALCFEETERVIFYRKR-c -----htlpANEFRCCLTPEDAAGVFEIEREAFISVSGNCPLN--LDEVQHFTLCPELSGLWVVEGRVAFIIGSLWDEERL---tqeslahrprGHSALHALAHRSEFRQOKGSLWRYLHVGAQPAVRAVLMCEDA---LVPFYQRFGHPagpcaivgs1TFTEMHCS1-</p> <p>BLAST: aliSize=11 (resi) iden=5.26% (8/152) simi=7.24% (11/152) lvprgshmdiRqmkthlehwrglrkqlwpgHPDdahladgeeilqadhlasfiAmadgvaigfadasirhdYVngcdsSPVVF----- -----htlpANEFRCCLTPEDAAGVFEIEREAFISVSGNCPLNdevqhftlcpelSLGWVVEGRVAFIIGSLWDEERL---tqeslahrprGHSALHALAHRSEFRQOKGSLWRYLHVGAQPAVRAVLMCEDA---LVPFYQRFGHPagpcaivgs1TFTEMHCS1-</p> <p>AKOIT-----aavqrgwtnkgcremasdtspentisqkvhqaalgeeteerviFYRkr GSVLLwrylhhvgaqpavrravlmcedalvpfyqrfgHPagpcaivgs1tftemhcs1</p> <p>Proposed: aliSize=134 (resi) RMSD=2.25 (Å) lvprgs---HMDIROMNKT--HLEHWRGTRKOLWPG--GHPDdAHLADGEEITLQADHLASFIAMADGVAITGFADASIRHDYVN-----gcdsSPVVFEGIFLPSFRORGVAKOIIAAVORWGT-NKGCREMASDTSPenTiSOKVHOALCFEETERVIFYRKR-c -----htlpANEFRCCLTPEDAAGVFEIEREAFISVSGNCPLN--LDEVQHFTLCPELSLGWVVEGRVAFIIGSLWDEERL---tqeslahrpr---GHSALHALAHRSEFRQOKGSLWRYLHVGAQPAVRAVLMCED--A-LVPFYQRFGHPagpcaivgs1TFTEMHCS1-</p>
	1kuxA (166)			

399	<p>1s60A (152)</p> <p>110cA (166)</p>	C	<p>11.84</p> <p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.83 (Å)  lvprgsh---SHMDIROMNKTGLEHWRGLRKLQWP---GHPdd-AHLDAGEEITLQADHLASFIAMADGVAIGADASTIRHDYVNgcds-----SPVVFLEGIFLPSFRORGVAKOIAAVO-RWTKNGCREMASDTSPenTiSOKVHQAIGFEEtERVIYRkr-----  -----htlpANEFRCCLTPEDAAGVFEIEREAFISvsGNC--pLNDEVOHFLTLCPELSLGFVVEGRVAFIIGSLWDEERL-----tqeslaIhrprGHSAHHALAHRSEFRQCKGSLWRYLHVGAQPAVRAVLMCED--A-LVPFFRFGFHP-AGPCAIV--vgsIftfemhcsI</p> <p><b>SARST:</b> aliSize=140 (resi) RMSD=6.66 (Å)  lvprgsh---MDIROMNKTGLEHWRGLRKLQWP---LWPHDPAHLADAGEEITLQADHLASFIAMADGVAIGADASTIRHDYV-----GCDSSPVVFLLEGIFLPSFRORGVAKOIAAVORWGTNKG-CREMASDTSPenTiSOKVHQAIGFEE-----TERVIYRKR-c  -----htlpANEFRCCLTPEDAAGVFEIEREafISVSINCPNLDEVOHFLTLCPELSLGFVVEGRVAFIIGSLWDEERL-----tqeslaIHRPRGHSAHHALAHRSEFRQCKGSLWRYLHVGAQPAVRAVLMCEDAL---VPPFRFGFHPagpcAivvgsITfTEMHCS1-</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=5.26% (8/152) simi=7.24% (11/152)  lvprgshmdiromnktglehwrgrklqwpghpddahladgeeitlqadhlasdfiamadgvaigfadasihrdyvngcdsspvvf-----htlpANEFRCCLTPEDAAGVFEIEREAFISVSGNCPNLDEVOHFLTLCPELSLGFVVEGRVAFIIGSLWDEERL-----tqeslaIhrprGHSAHHALAHRSEFRQCKGSLWRYLHVGAQPAVRAVLMCEDAL---VPPFRFGFHPagpcAivvgsITfTEMHCS1-</p> <p><b>Proposed:</b> aliSize=133 (resi) RMSD=2.29 (Å)  lvprgsh---HMDIROMNKTGLEHWRGLRKLQWP---GH---pdahLDAGEEITLQADHLASFIAMADGVAIGADASTIRHDYV-----gcdsSPVVFLEGIFLPSFRORGVAKOIAAVORWGT-NKGCREMASDTSPenTiSOKVHQAIGFEEtERVI-----YRKR-----  -----htlpANEFRCCLTPEDAAGVFEIEREAFISvsGNCpL---NDEVOHFLTLCPELSLGFVVEGRVAFIIGSLWDEERL-----tqeslaIhrpr---GHSAHHALAHRSEFRQCKGSLWRYLHVGAQPAVRAVLMCED--A-LVPFFRFGFHPAGPCAivvgsITfTEMHCS1-</p>
400	<p>1s60A (152)</p> <p>1n71A (180)</p>	C	<p>13.82</p> <p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.08 (Å)  lvprgshDROM-NKT--HLEHWRGLRKLQWP-G-HPDPAHLADAGEEITLQADHLASFIAMADGVAIGADASTIRHDYVngcdsSPVVFLEGIFLPSFRORGVAKOIAAVORWGTNKGCREMASDTS---EN-----TISOKVHOALGFEETERVI-FYkr-----  -----IIFSEFDRNNpvLKDQLSDLRLTVEEYGDSSAEVEEM-NPERIAVAVDQDELVGI-GAIPOYGIT-----ITGWEHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnAN---gwdkpdIw</p> <p>maktiiprd</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=3.52 (Å)  lvprgshDROMNKTGLEHWRGLRKLQWP---KOLWpghpDPAHLADAGEEITLQADHLASFIAMADGVAIGAdASTIRHDYVngcdsspVVFLEGIFLPSFRORGVAKOIAAVORWGTNKGCREMASDTS-----  -----mIIFSEFDRNNpvLKDQLSDLRLTVEEYGDSSAEVEEM-NPERIAVAVDQDELVGI-GAIPOYGIT-----GWEHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnANGWdkpdIw</p> <p>-----pentisqkvhqualgfeetervifyrkr-----  maktiiprd</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=18.42% (28/152) simi=36.84% (56/152)  lvprgshmdiromnktglehwrgrklqwpghpddahladgeeitlqadhlasdfiamadgvaigfadasihrdyvngcdsspvvflegiflpsfrorgvakoiiaavorwgtnkcremasdts---en-----tisokvhoalgfeetervi-----fyrkr-----  -----miisefdrnnpvlkdqsdrltveeygdssaeveem-nperiaavaVDQDELVGI-GAIPOYGIT-----ITWELHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnANGWdkpdIw</p> <p>-----rc  pnangwkdpiwmaktiiprd--</p> <p><b>Proposed:</b> aliSize=135 (resi) RMSD=1.76 (Å)  lvprgshDROM-NKT--HLEHWRGLRKLQWP-G-HPDPAHLADAGEEITLQADHLASFIAMADGVAIGADASTIRHDYVngcdsS-PVVFLEGIFLPSFRORGVAKOIAAVORWGTNKGCREMASDTS---EN-----TISOKVHOALGFEETERVI-----FYKR-----  -----IIFSEFDRNNpvLKDQLSDLRLTVEEYGDSSAEVEEM-NPERIAVAVDQDELVGI-GAIPOYGIT-----GITGWEHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnANGWdkpdIwMAK</p> <p>C-----c  Tiiprdc-</p>
401	<p>1s60A (152)</p> <p>1n71B (179)</p>	C	<p>13.82</p> <p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.13 (Å)  lvprgshDROM-NKT--HLEHWRGLRKLQWP-G-HPDPAHLADAGEEITLQADHLASFIAMADGVAIGADASTIRHDYVngcdsSPVVFLEGIFLPSFRORGVAKOIAAVORWGTNKGCREMASDTS---EN-----TISOKVHOALGFEETERVI-FYkr-----  -----IIFSEFDRNNpvLKDQLSDLRLTVEEYGDSSAEVEEM-NPERIAVAVDQDELVGI-GAIPOYGIT-----ITGWEHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnAN---gwdkpdIw</p> <p>maktiiprd</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=3.41 (Å)  lvprgshDROMNKTGLEHWRGLRKLQWPghpDD---AHLADAGEEITLQADHLASFIAMADGVAIGAdASTIRHDYVngcdsspVVFLEGIFLPSFRORGVAKOIAAVORWGTNKGCREMASDTS-----  -----mIIFSEFDRNNpvLKDQLSDLRLTVEEYGDSSAEVEEM-NPERIAVAVDQDELVGI-GAIPOYGIT-----GWEHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnANGWdkpdIw</p> <p>-----pentisqkvhqualgfeetervifyrkr-----  aktiiprd</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=18.42% (28/152) simi=36.84% (56/152)  lvprgshmdiromnktglehwrgrklqwpghpddahladgeeitlqadhlasdfiamadgvaigfadasihrdyvngcdsspvvflegiflpsfrorgvakoiiaavorwgtnkcremasdts---en-----tisokvhoalgfeetervi-----fyrkr-----  -----miisefdrnnpvlkdqsdrltveeygdssaeveem-nperiaavaVDQDELVGI-GAIPOYGIT-----ITWELHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnANGWdkpdIw</p> <p>-----rc  pnangwkdpiwmaktiiprd--</p> <p><b>Proposed:</b> aliSize=135 (resi) RMSD=1.84 (Å)  lvprgshDROM-NKT--HLEHWRGLRKLQWP-G-HPDPAHLADAGEEITLQADHLASFIAMADGVAIGADASTIRHDYVngcdsS-PVVFLEGIFLPSFRORGVAKOIAAVORWGTNKGCREMASDTS---EN-----TISOKVHOALGFEETERVI-----FYKR-----  -----IIFSEFDRNNpvLKDQLSDLRLTVEEYGDSSAEVEEM-NPERIAVAVDQDELVGI-GAIPOYGIT-----GITGWEHPLVNESRRKNOIGTRVNYLEKEVASRGITTYLGDdldhgTtIsqtdlyehtfdkvasiqnlrehpyefyeklgykiVGLPnANGWdkpdIwMAK</p> <p>-----c  tiiprdc-</p>

402	1s60A (152)	C	7.89	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=3.02 (Å)  lvprgshmdiromn---K-TLHEHWGRGIRKOLW---GHPDDAHLADGEEI lqAdhLASFIAMAD-GVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETR-----RVIFyrkrc-----  -----LDFDILTndgThrNMKLLIDLKNIFSRQLPKMKEY-IVKLVF-DR--H--HESMVLKKNKQKVICGICFRQYKP-----QRFAEVAFLAVTANEQVRYGTRLMNFKDHMOKONIEYLLTYADN--F-AIGYFKKQGTKEHrmpqekwkyikDYDG----gtlmecyihpyvdg</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=6.35 (Å)  lvprgshmdirqmknkth-----LHWGRGIRKOLW---GHPDDAHLADGEEI lqAdhLASFIAMAD-GVAIGFADASIR--HdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETR-----RVIFyrkrc-----  -----ldfdiltndgthrmnkllidLKNIFSRQLPKM-----KEYIVKLVFDRHESMVLKKNKQKVICGICFRQYKPQ---RF----AEVAFLAVTANEQVRYGTRLMNFKDHMOKONIEYLLTYADN--F-AIGYFKKQGTKEHrmpqekwkyikdydgGLMECYi</p> <p>-----c  hpyvdg-</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=3.95% (6/152) simi=7.24% (11/152)  lvprgshmdirqmknkthlehwgrlqkqwpghpddahladgee-----LDADHLASFIAMADGVAIGF-----  -----ldfdiltndgthrmnkllidLKNIFSRQLPKMKEYIVKLVFDRHESMVLKKNKQKVICGICFRQYKQRFAEVAFLAVTANEQVRYGTRLMNFKDHMOKONIEYLLTYADN--F-AIGYFKKQGTKEHrmpqekwkyikdydg</p> <p>-----adasirhdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPEntisqkvhqlgfeetervifyrkrc  glmeciypvydg-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.40 (Å)  lvprgshmdiromn---KT-HLEHWGRGIRKOLW---GHPDDAHLADGEEI lqAdhLASFIAMAD-GVAIGFADASIR-HdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETR-----RVIFyrkrc-----c  -----LDFDILTndgthrNMKLLIDLKNIFSRQLPKMKEY-IVKLVFDR--RH--HESMVLKKNKQKVICGICFRQYKP-----QRFAEVAFLAVTANEQVRYGTRLMNFKDHMOKONIEYLLTYADN--F-AIGYFKKQGTKEHrmpqekwkyikdydgGLMECYiHPvydgc-</p>
403	1s60A (152)	C	11.84	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.64 (Å)  lvprg-----SHMDIROMNKTLEHWGRGIRK--O---GHPDD--AHLADGEEILOA--D-HLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGT-NKGCREMASDTSPEntiSOKVHOALGFEETERVIFyrkrc-----  -----veiiipvsITLELRAADESVPALHQLVknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----INKAAYI-GYWLDESFGQGLMSLSLOALMTHYARRGDIRRFVVKCRVDNQAASNAARRNHFTLEGCMKqAE---yIngdyhdvnmmyariida</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=3.97 (Å)  lvprgs-----HMDIROMNKTLEHWGRGIRK--O---GHPDD--AHLADGEEILOA--D-HLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETERVIFyrkrc-----  -----veiiipvsITLELRAADESVPALHQLVknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----FNAIepinkAAYI-GYWLDESFGQGLMSLSLOALMTHYARRGDIRRFVVKCRVDNQAASNAARRNHFTLEGCMKqAeyIngdyhdvnmmyar</p> <p>----fyrkrc  iida-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=3.95% (6/152) simi=4.61% (7/152)  lvprgshmdirqmknkthlehwgrlqkqwpghpddahladgeeilqadhlasfiamadgvaigfadasirhdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGT-NKGCREMASDTSPEntisqkvhqlgfeetervifyrkrc  -----veiiipvsttlelraadeshvpalhqlvknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----veiiipvsttlelraadeshvpalhqlvknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----ORVAKOLI AAV-----  -----gywldesfgqgimsqslqalmthyarrgdirrfvkrvdnqasnavarrnhftlegcmkqaeayIngdyhdvnmmyariida-----rwgtngcremasdtspentisqkvhqlgfeetervifyrkrc</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.18 (Å)  lvprgs-----HMDIROMNKTLEHWGRGIRK--O---GHPDD--AHLADGEEILOA--D-HLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGT-NKGCREMASDTSPEntiSOKVHOALGFEETERVIFyrkrc-----  -----veiiipvsITLELRAADESVPALHQLVknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----NKAAAYI-GYWLDESFGQGLMSLSLOALMTHYARRGDIRRFVVKCRVDNQAASNAARRNHFTLEGCMKqAeyIngdyhdvnmmyariida</p> <p>---c  dac-</p>
404	1s60A (152)	C	11.84	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.63 (Å)  lvprg-----SHMDIROMNKTLEHWGRGIRK--O---GHPDD--AHLADGEEILOA--D-HLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGT-NKGCREMASDTSPEntiSOKVHOALGFEETERVIFyrkrc-----  -----eiiipvsITLELRAADESVPALHQLVknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----INKAAYI-GYWLDESFGQGLMSLSLOALMTHYARRGDIRRFVVKCRVDNQAASNAARRNHFTLEGCMKqAE---yIngdyhdvnmmyariidad</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=3.94 (Å)  lvprgs-----HMDIROMNKTLEHWGRGIRK--O---GHPDD--AHLADGEEILOA--D-HLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGTNKGCREMASDTSPEntiSOKVHOALGFEETERVIFyrkrc-----  -----eiiipvsttlelraadeshvpalhqlvknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----FNAIepinkAAYI-GYWLDESFGQGLMSLSLOALMTHYARRGDIRRFVVKCRVDNQAASNAARRNHFTLEGCMKqAeyIngdyhdvnmmyar</p> <p>-----fyrkrc  riidad-----</p> <p><b>BLAST:</b> aliSize=7 (resi) iden=3.95% (6/152) simi=4.61% (7/152)  lvprgshmdirqmknkthlehwgrlqkqwpghpddahladgeeilqadhlasfiamadgvaigfadasirhdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGT-NKGCREMASDTSPEntisqkvhqlgfeetervifyrkrc  -----eiiipvsttlelraadeshvpalhqlvknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----veiiipvsttlelraadeshvpalhqlvknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----ORVAKOLI AAV-----  -----ywl desfgqgimsqslqalmthyarrgdirrfvkrvdnqasnavarrnhftlegcmkqaeayIngdyhdvnmmyariidad-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.19 (Å)  lvprgs-----HMDIROMNKTLEHWGRGIRK--O---GHPDD--AHLADGEEILOA--D-HLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGIIFVLPSPFRORVAKOLI AAVORWGT-NKGCREMASDTSPEntiSOKVHOALGFEETERVIFyrkrc-----  -----eiiipvsttlelraadeshvpalhqlvknkawlqqsldwPQYVTSqeETRKHVQGNILLhqRgYAKMYLIFCQNEMLVLSFNAIPEP-----NKAAAYI-GYWLDESFGQGLMSLSLOALMTHYARRGDIRRFVVKCRVDNQAASNAARRNHFTLEGCMKqAeyIngdyhdvnmmyariida</p> <p>---c  adc-</p>

405	<p>1s60A (152)</p> <p>1wzB (157)</p>	C	<p>11.18</p> <p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.63 (Å)  lvprgsHMDROM-NKT--HFEHWRLRKOLW--P--G--HPDAHLADGEEILOAdHL-ASFIAMADGVAIGFADAS-IRHDYVngCdSSPVFLEGIFFLPSFRORVAKOLI AAVORWGTNkGCREMASDTSPEntISOKVHOALGFEETERVIFyrkr-----  -----EIKLEKlKLDkkaNELIDVYMSGYegLeeYggGRYARNYIKWCWKK-ASdGFVAVKVGDKIVGFI VCDkDFWFSKY--E-GRVGAIHFEVVDKKIQGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGH-KKVGKSGI---wvrmiqrnl</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=6.23 (Å)  lvprgshmdrom-nkt--hfehwrlrkolw--p--g--hpdahladgeeiloadhlasfiamadgvaigfadasi rhdyvngcdsspvflegifflpsfrorvakoli aavorwgtngcremasdtspe ntisokvhoal gfeete---rvi fyrkr--c  -----eikleklkldkkaNELIDVYMSGYegLeeYgggrdyARNYIKWCWKKASD-GFVAVKVGDKIVGFI VCDkDFWFSKYEGRTVGAIHFEVVDKKIQGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGH-KKVGKSGIwvrmiqrnl</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=14.47% (22/152) simi=24.34% (37/152)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasi rhdyvngcdsspvflegifflpsfrorvakoli aavorwgtngcremasdtspe ntisokvhoal gfeete---rvi fyrkr--c  -----eikleklkldkkaNELIDVYMSGYegLeeYgggrdyARNYIKWCWKKASD-GFVAVKVGDKIVGFI VCDkDFWFSKYEGRTVGAIHFEVVDKKIQGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGH-KKVGKSGIwvrmiqrnl</p> <p><b>Proposed:</b> aliSize=139 (resi) RMSD=2.36 (Å)  lvprgsHMDROM-NKT--HFEHWRLRKOLW-PG--H--PDVAHLADGEEILOAdHL-ASFIAMADGVAIGFADAS-IRHDYVngC-dsSPVVFLEGIFFLPSFRORVAKOLI AAVORWGTNkGCREMASDTSPEntISOKVHOALGFEETERVIFyrkr--c  -----EIKLEKlKLDkkaNELIDVYMSGYegLeeYggGRYARNYIKWCWKK-ASdGFVAVKVGDKIVGFI VCDkDFWFSKY--Eg--RIVGAIHFEVVDKKIQGKIGRKLITCLDFLGK-YNDTIELWVGEKYGAMNLYEKFGH-KKVGKSGIwvrmiqrnl</p>
406	<p>1s60A (152)</p> <p>1y9wA (140)</p>	N	<p>11.43</p> <p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.32 (Å)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilq-----ADHLASFIAMADG-VAIGFADASTRHdyvngcdssPVVLEGIFFLPSFRORVAKOLI AAVORWGTNkGCREMASDTSPEntISOKVHOALGFEETERVIFyrkr-----  -----mymkhiengtriegeyiknkviqynmsiltdevkqpmEEVSLVVKNEegKIFGVTGTMYF-----YHLHIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDF-SF-QAPEFYKHHYREYGVEdH-----p</p> <p>kgshqhfekrl</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=7.21 (Å)  lvprgshmdi rqnkthlehwrlrkqlwpghp-----DDAHLADGEEILO--ADH-----LASFIAMA-DVAIGFADASTRHdyvngcdsspvflegifflpsfrorvakoli aavorwgtngcremasdtspe ntisokvhoal gfeete---rvi fyrkr--c  -----mymkhiengtriegEYIKNKVIOYNMSILTDevkqpmEEVSLVVKNEegKIFGVTGTMYF---YH-----LHIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDF-SF-QAPEFYKHHYREYGVEdhpkghsqhfekrl-----</p> <p><b>BLAST:</b> aliSize=20 (resi) iden=7.86% (11/140) simi=14.29% (20/140)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasi rhdyvngcdsspvvf-----mymkhiengtriegeyiknkviqynmsiltdevkqpmEEVSLVVKNEegkifgvtgtmyfhlhIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDFsf</p> <p>-----spentisqkvhalgfeetervifyrkr  fqapefykhhgyreygvvedhpkghsqhfekrl-----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.95 (Å)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilqadhlasfiamadg--VAIGFADASTRHdyvngcdssPVVLEGIFFLPSFRORVAKOLI AAVORWGTNkGCREMASDTSPEntISOKVHOALGFEETERVIFyrkr--c  -----M--YMKHIengtrie-----GEYIKNKVIOYNMSILTDevkq-PM-----EEVSLVVKNEegKIFGVTGTMYF-----YHLHIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDF-SF-QAPEFYKHHYREYGVEdhpkghsqhfekrl-----</p>
407	<p>1s60A (152)</p> <p>1y9wA (140)</p>	C	<p>12.86</p> <p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.32 (Å)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilq-----ADHLASFIAMADG-VAIGFADASTRHdyvngcdssPVVLEGIFFLPSFRORVAKOLI AAVORWGTNkGCREMASDTSPEntISOKVHOALGFEETERVIFyrkr-----  -----mymkhiengtriegeyiknkviqynmsiltdevkqpmEEVSLVVKNEegKIFGVTGTMYF-----YHLHIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDF-SF-QAPEFYKHHYREYGVEdH-----p</p> <p>kgshqhfekrl</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=7.21 (Å)  lvprgshmdi rqnkthlehwrlrkqlwpghp-----DDAHLADGEEILO--ADH-----LASFIAMA-DVAIGFADASTRHdyvngcdsspvflegifflpsfrorvakoli aavorwgtngcremasdtspe ntisokvhoal gfeete---rvi fyrkr--c  -----mymkhiengtriegEYIKNKVIOYNMSILTDevkqpmEEVSLVVKNEegKIFGVTGTMYF---YH-----LHIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDF-SF-QAPEFYKHHYREYGVEdhpkghsqhfekrl-----</p> <p><b>BLAST:</b> aliSize=20 (resi) iden=7.86% (11/140) simi=14.29% (20/140)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilqadhlasfiamadgvaigfadasi rhdyvngcdsspvvf-----mymkhiengtriegeyiknkviqynmsiltdevkqpmEEVSLVVKNEegkifgvtgtmyfhlhIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDFsf</p> <p>-----spentisqkvhalgfeete rvi fyrkr  fqapefykhhgyreygvvedhpkghsqhfekrl-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=1.50 (Å)  lvprgshmdi rqnkthlehwrlrkqlwpghpddahladgeeilq-----DHLASFIAMADG--VAIGFADASTRHdyvngcdssPVVLEGIFFLPSFRORVAKOLI AAVORWGTNkGCREMASDTSPEntISOKVHOALGFEETERVIFyrkr--c  -----mymkhiengtriegeyiknkviqynmsiltdevkqpmEEVSLVVKNEegKIFGVTGTMYF-----YHLHIDFLWDESVVHDYGSOLLHEIEGIAKEKGCRLILLDF-SF-QAPEFYKHHYREYGVEdhpkgh</p> <p>-VIFYRKRCC  SQHFEEKRL-</p>



408	<p>1s60A (152)</p> <hr/> <p>1yx0A (151)</p>	C	11.92	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=3.24 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----G-HPddAHl-ADgeEIqAdhLASFIIMADGVAIGFADASIRHdyvngcdsSPVVFLEGI FVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERV--IFYrkrc-----  -----MHKIDDL-TGROVVSIVNEHLHsmt lmsppesiHaLG--LE-kLR--GP--E--ITFWSWEGDELAGCGALKELD-----TRHGETKSMRTSAsHLR-KGVAKQVLQHIIEEAEKRCYERLSLETGSMASFEFARKLYESFGFOYCEPFadyGE----dpsvfmtkkl</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=9.91 (Å)  lvp-----RGSMDIRqmnkthlehwgrlkrqlwpghpddahladgeeilqadhlasfiIMADGVAIGFADASIRHdyvNGCDSSPVVfLeGIFVLPFRORGVAKOLIAAVORWGTNKC CREMASDTS--PENTISOKVHOALGFEE-----  ---mhikiddltgrqvsvlnehlsmt lmsppesiha gl eklrGPEITFWS-----WEGDELAGCGALK-----ELDTRHGEIK--SMRTSAsHLRQVAKQVLQHIIEEAEKRCYERLSLETGsmASFEFARKLYESFGFOYcepfa</p> <p>TERV---IFYRKR--c  DYGEDp nSVFMTkkl-</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=19.87% (30/151) simi=37.09% (56/151)  lvprgshmdi-----ROMNKtHLEHWRGLRKOLWP-----G-HPddAHl-ADgeEIqAdhLASFIIMADGVAIGFADASIRHdyvNGCDSSpvvflegifvlpFRORGVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE T-----rvi fykrcc  -----mhikiddltgrqvsvlnehlsmt lmsppesiha gl eklrGPEITFWSWEGDELAGCGALKELD-----TRHGETKSMRTSAsHLR-KGVAKQVLQHIIEEAEKRCYERLSLETGSMASFEFARKLYESFGFOYCEPFadygedpsvfmtkkl-----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.48 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----G-HPddAHl-ADgeEIqAdhLASFIIMADGVAIGFADASIRHdyvngcdsSPVVFLEGI FVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE T-----E-RVIIFYRKRCC  -----MHKIDDL-TGROVVSIVNEHLHsmt lmsppesihaLg--L--EkL-RG--P--E--ITFWSWEGDELAGCGALKELD-----TRHGETKSMRTSAsHLR-KGVAKQVLQHIIEEAEKRCYERLSLETGSMASFEFARKLYESFGFOYCEPFadygeDpNSVMTKkl-</p>
409	<p>1s60A (152)</p> <hr/> <p>2cntA (151)</p>	C	14.57	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=2.30 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----G-HPddAHl-ADgeEIqAdhLASFIIMADGVAIGFADASIRHdyvngcdsSPVVFLEGI FVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERVI-FYrkrc-----  -----MNTISLSTIDLPAAWQIEORaHaFPWSE--KTFFG--NQ-GE-RYLNKLTADDRMAAFITQVVL-----DEATFNIAADDFORRGLGRMLEHLIDELETRCVVTLWLEVRASNAAIALYESLGFNEATIRRaYY---ptaqghedaaimalpismklh</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=2.52 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----G-HPddAHl-ADgeEIqAdhLASFIIMADGVAIGFADASIRHdyvngcdsSPVVFLEGI FVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERVI-----fykrcc  -----mNTISLSTIDLPAAWQIEORaHaFPWSE--KTFFG--NQ-GE-RYLNKLTADDRMAAFITQVVL-----LDEATFNIAADDFORRGLGRMLEHLIDELETRCVVTLWLEVRASNAAIALYESLGFNEATIRRaYY---ptaqghedaaimalpismklh-----</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=15.89% (24/151) simi=28.48% (43/151)  lvprgshmdi rqnkthlehwgrlkrqlwpghpddahladgeeil-----ADHLSFIAMADGVAIGFADASIRHdyvngcdsSPVVFleGIFVLP-SFRqRQVAKOLIA-AVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE-TERVI-FY-----  -----mntisilsttdlpaaqieqrhafpws ek t f f g n GERYLNKLTADDRMAAFITQVVL-----EATLFNIAADDFORRGLGRMLEHLIDELETRCVVTLWLEVRASNAAIALYESLGFNEATIRRaYY---ptaqghedaaimalpismklh-----</p> <p>-----rkrcc  hedaiimalpismklh-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=1.91 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----G-HPddAHl-ADgeEIqAdhLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFLEGI FVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERVI-----IFYRKRCC-----c  -----MNTISLSTIDLPAAWQIEORaHaFPWSE--KTFFG--NQ-GE-RYLNKLTADDRMAAFITQVVL-----DEATFNIAADDFORRGLGRMLEHLIDELETRCVVTLWLEVRASNAAIALYESLGFNEATIRRaYY---ptaqghedaaimalpismklh-----</p>
410	<p>1s60A (152)</p> <hr/> <p>2j8mA (171)</p>	C	17.76	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.57 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----GHDDahLADGEEILOaDHLASFIAMADGVAIGFADASIRHdyvngc-DSSPVVfLeGIFVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERVI-FYrkrc-----  -----SASIRDAGVADLPGILAIYNDAGvntaiwneTIVV-LANRQAWFDARARQGYPILVASDAAGEVLYASYGDWRPF-----eGFRGTVEH-SVYVRDDQKGLGVOLLOALIERARAOQLHVVAAIESGNAASIGLHRRLGFEISGOMPqVQKfgwldl t f m q l n d p t r s a p</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=4.05 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----QLW--PGHPDDAHLADGEEILOaDHLASFIAMADGVAIGFADASIRHdyvngc---DSSPVVfLeGIFVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERVI--FYR-----krcc  -----SASIRDAGVADLPGILAIYNDAGvntaiwneTPVDLANRQAWFDARARQGYPILVASDAAGEVLYASYGDWRPF-----DWRPFegfrGTVEH---SVYVRDDQKGLGVOLLOALIERARAOQLHVVAAIESGNAASIGLHRRLGFEISGOMPqVQKfgwldl t f m q l n d p t r s a p</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=9.87% (15/152) simi=16.45% (25/152)  lvprgshmdi rqnkthlehwgrlkrqlwpghpddahladgeeilqadhlasfi amadgvaigfadasirhdyvngcdsspvvfleg-----sasi rdagvadlpgilaiyndavgn t aiwne t p v d l a n r q a w f d a r a r q g y p i l v a s d a a g e v l y a s y g d w r p f e g f r g t v e h s VYVRDDQKGLGVOLLOALIERARAOQLHVVAAIESGNAASIGLHRRLGFEISGOMPqVQKfgwldl t f m q l n d p t r s a p</p> <p>AIVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE-----eterVIIFYRKRCC  QALIERARAOQLHVVAAIESGNAASIGLHRRLGFEISGOMPqVQKfgwldl t f m q l n d p t r s a p</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.06 (Å)  lvprgshMDIROMNKtHLEHWRGLRKOLWP-----GHDDahLADGEEILOaDHLASFIAMADGVAIGFADASIRHdyvngcdsSPVVFleGIFVLP-SFRqRQVAKOLIAAVORWGTNKC CREMASDTSPE--NTISOKVHOALGFEE TERVI-----IFYRKRCC-----c  -----SASIRDAGVADLPGILAIYNDAGvntaiwneTIVV-LANRQAWFDARARQGYPILVASDAAGEVLYASYGDWRPFegf-----RGTVEH-SVYVRDDQKGLGVOLLOALIERARAOQLHVVAAIESGNAASIGLHRRLGFEISGOMPqVQKfgwldl t f m q l n d p t r s a p</p>

411	<p>1s60A (152)</p> <p>2j8mB (170)</p>	C	<p>15.79</p> <p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.47 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP-----GHPD-DAHLADGEEI1QADHLASFIAMADGVAIGFADASIRH-D-YVngcdsSPVFLFEGIFLPSFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERVI-FYrkrc-----  -----ASIRDAGVADLPGILAIYNDAVGnttaiwneTPVLIANROWFDAR-AROGYPILVASDAAGEVLYASYGDWRpFeGF-----RGTVEH-SVYVRDDQKGLGVOLLQALITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqVG- - - - qkfgrowldlftmqnlndptrsap</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=4.06 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP-----QLW---PGHPDDAHLADGEEILOaDHLASFIAMA-DVAIGFADASIRhdYVNGC---DSSPVvflEGIFLPSFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERVI-FYR-----krc  -----ASIRDAGVADLPGILAIYNDavgnTATwneTPVDLANROWFDARAR-QGYPILVASDAAGEVLYASYG---DWRPFegfrGTVEH---SVYVRDDQKGLGVOLLQALITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqvGQKfgrowldlftmqnlndptrsap---</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=9.87% (15/152) simi=16.45% (25/152)  lvprgshmdi rqnkthlehwgrl rklwpghpddahl adgee i lqadhl asfi amadgvaigfadas i rhdyvngcds spvfl eg-  -----sirdagvadlpgilaiyndavgn t aiwne t pvdlanrqawf darar qgypilvasdaagev lgyasygdwrpfe gfrgtvehs IFVLPSPFRQGVAKOLIA  VORWGTNKCRESASDTSPEntiSOKVHOALGFEE-----eterVifyrkrc  LITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqvGQKfgrowldlftmqnlndptrsap-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.11 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP-----GHPD-DAHLADGEEI1QADHLASFIAMADGVAIGFADASIR---HDYvngcdsSPVFLFEGIFLPSFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERV-----VFYRKRC-----c  -----ASIRDAGVADLPGILAIYNDAVGnttaiwneTPVLIANROWFDAR-AROGYPILVASDAAGEVLYASYGDWRpFeGF-----RGTVEH-SVYVRDDQKGLGVOLLQALITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqvGQKfgrowldlftmqnlndptrsap-</p>
412	<p>1s60A (152)</p> <p>2j8nA (169)</p>	C	<p>16.45</p> <p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.40 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP-----GHPD-DAHLADGEEI1QADHLASFIAMADGVAIGFADASIRH-D-YVngcdsSPVFLFEGIFLPSFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERVI-FYrkrc-----  -----SIRDAGVADLPGILAIYNDAVGnttaiwneTPVLIANROWFDAR-AROGYPILVASDAAGEVLYASYGDWRpFeGF-----RGTVEH-SVYVRDDQKGLGVOLLQALITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqVG- - - - qkfgrowldlftmqnlndptrsap</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=4.01 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP-----QLW---PGHPDDAHLADGEEILOaDHLASFIAMA-DVAIGFADASIRhdYVNGCDSPPVFLFEGIFLPSFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERVIFYRK-----rc  -----SIRDAGVADLPGILAIYNDavgnTATwneTPVDLANROWFDARAR-QGYPILVASDAAGEVLYASYG---DWRPFEGFRGTVEHSVYVRDDQKGLGVOLLQALITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPQVQKfgrowldlftmqnlndptrsap--</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=9.87% (15/152) simi=16.45% (25/152)  lvprgshmdi rqnkthlehwgrl rklwpghpddahl adgee i lqadhl asfi amadgvaigfadas i rhdyvngcds spvfl eg-  -----sirdagvadlpgilaiyndavgn t aiwne t pvdlanrqawf darar qgypilvasdaagev lgyasygdwrpfe gfrgtvehs IFVLPSPFRQGVAKOLIA  VORWGTNKCRESASDTSPEntiSOKVHOALGFEE-----eteVifyrkrc  LITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqvGQKfgrowldlftmqnlndptrsap-----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.05 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP-----GHPD-DAHLADGEEI1QADHLASFIAMADGVAIGFADASIR---HDYvngcdsSPVFLFEGIFLPSFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERV-----VFYRKRC-----c  -----SIRDAGVADLPGILAIYNDAVGnttaiwneTPVLIANROWFDAR-AROGYPILVASDAAGEVLYASYGDWRpFeGF-----RGTVEH-SVYVRDDQKGLGVOLLQALITERARAOCLHVMVAATIESGNAASIGLHRRLGFEISGOMPqvGQKfgrowldlftmqnlndptrsap-</p>
413	<p>1s60A (152)</p> <p>2jdcA (145)</p>	C	<p>15.17</p> <p><b>TM-align:</b> aliSize=130 (resi) RMSD=2.63 (Å)  lvprgshMDIROMNKthLEhWRGLRKQ-LWGHDDAHLADGEEI1QADHLASFIAMADVAIGFADASIRHDYVNGCDSSPVVFLFEGIFVLPSPFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERVIFYrkrc-----  -----IEVKPINA--ED-TYELRHRIRLNQPIEAC-MFE-SD-LLRGAFHLGGYGGKLSIASFHQA-EHSE-LOGQKQYQ-RGMATIEGYREQKAGSSLIKHAEELRKRADLLWCNART-S--ASGYKKLGFSEQGEVFDT---ppvgphilmykrit</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=4.72 (Å)  lvprgshMDIROMNKTHLEHWRGLRKOLWP---GHPDDahladgee i lQADHLASFIAMADVAIGFADASIRHDYVNGCDSSPVVFLFEGIFVLPSPFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERVIFYRKRC-----c  -----IEVKPINAEDTYELRHRILRNQPIEACMFES-----DLLRGAFHLGGYGGKLSIASFHQAHSSELQKQYQLRG--MATIEGYREQKAGSSLIKHAEELRKRADLLWCNARTSASGYK---KLGFSH--QGEVFDTPpvgphilmykrit-</p> <p><b>BLAST:</b> aliSize=46 (resi) iden=18.62% (27/145) simi=31.72% (46/145)  lvprgshmdi rqnkthlehwrg-----RRKQ-LWGHDDAHLADGEEILOaDHLASFIAMADVAIGFADASIRHDYVNGCDSSPVVFLFEGIFVLPSPFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERV-----ifyrkrc  -----ievkpinaedtyelrhrilrnqpieacmfesdlrgafhlGGYGG---KLSIASFHQAHSSELQKQYQ---RGMATIEGYREQKAGSSLIKHAEELRKRADLLWCNA---RTSASGYKKLGFSEQGEVfdtppvgphilmykrit-----</p> <p><b>Proposed:</b> aliSize=133 (resi) RMSD=2.19 (Å)  lvprgshMDIROMNKthLEhWRGLRKQ-LWGHDDAHLADGEEI1QADHLASFIAMADVAIGFADASIRHDYVNGCDSSPVVFLFEGIFVLPSPFRQGVAKOLIAAVQVORWGTNKCRESASDTSPEntiSOKVHOALGFEEETERV-----VFYRKRC---c  -----IEVKPINA--ED-TYELRHRIRLNQPIEAC-MF--SD-LLRGAFHLGGYGGKLSIASFHQAHS-E-LOGQKQYQ-RGMATIEGYREQKAGSSLIKHAEELRKRADLLWCNART-S--ASGYKKLGFSEQGEVfdtppvgPHILMYKRitc-</p>

414	1s60A (152)	N	10.53	<p>TM-align: aliSize=130 (resi) RMSD=3.16 (Å)  lvprgs-----HMDIROMNktHLEHWRLR--K---QL---WpG----HPDDAHLADGeEIlqAdHLASFIAMADGVAIGFADASIrhDyvngcdSSPVVfLEIIFVLPFRORGVAKOLIAAVORWGT-NKGCRESASDTSPE NTISOKVHOALGFETERVIFYKrc-----  -----mwafperfeGRHVLEPLAALPAFLrhYdpeVYrflsRAVapteeALRAHLEGLL-GE--P-GRVNWAILFGKEVAIRISVIAPE-----EHAKLEIGTMLFKPWGSPANKEAKYL LRHAFEV LRAERVQFKVDLRNERSORALEALGAVREGVLRkNR-----lpdgafRDDVV</p> <p>ysvlkeewpgvkarlearlygasgnp</p> <p>SARST: aliSize=138 (resi) RMSD=4.84 (Å)  lvpr-----SHMDIROMNktHLEHWRLR---GLRkOLWpGHPDdHLAGDGEIIOADHLASFIAMADGVAIGFADASIRhdYV--NGcdSSPVVfLEIIFVLPFRORGVAKOLIAAV--ORWGTNKGCREMASDTSPE NTISOKVHOALGFETERVIFYKrc-----  -----mwafperfeGRHVLEPLAALPAFLrhYdPEVYRFLSRAVapteeALRHLHLEGLGEPGRVNWAILFGKEVAIRISVIA---PEpEHA--KLEL-----TMLFKPWGSPANKEAKYL LRHAFEV LRAERVQFKVDLRNERSORALEALGAVREGVLRK NRRLpdgafRDDVVysvlkeewpgvkarlearlygasgnp</p> <p>-----c  gvkarlearlygasgnp-</p> <p>BLAST: aliSize=23 (resi) iden=8.55% (13/152) simi=15.13% (23/152)  lvpr-----SHMDIROMNktHLEHWRLR---GLRkOLWpGHPDdHLAGDGEIIOADHLASFIAMADGVAIGFADASIRhdYV--NGcdSSPVVfLEIIFVLPFRORGVAKOLIAAV--ORWGTNKGCREMASDTSPE NTISOKVHOALGFETERVIFYKrc-----  -----mwafperfeGRHVLEPLAALPAFLrhYdPEVYRFLSRAVapteeALRHLHLEGLGEPGRVNWAILFGKEVAIRISVIA---PEpEHA--KLEL-----TMLFKPWGSPANKEAKYL LRHAFEV LRAERVQFKVDLRNERSORALEALGAVREGVLRK NRRLpdgafRDDVVysvlkeewpgvkarlearlygasgnp</p> <p>-----amadgvaigfadasirhdYvngcdsspVvfLEIIFVLPFRORGVAKOLIAAVORWGTNKGCREMASDTSPE NTISOKVHOALGFETERVIFYKrc-----  arlygasgnp</p> <p>Proposed: aliSize=128 (resi) RMSD=2.43 (Å)  l---VPLGSHM-DIROMNktHLEHWRLR---GLRkOLWpGHPDdHLAGDGEIIOADHLASFIAMADGVAIGFADASIRhdYV--NGcdSSPVVfLEIIFVLPFRORGVAKOLIAAVORWGT-NKGCRESASDTSPE NTISOKVHOALGFETERVIFYKrc-----  -----mwafperfeGRHVLEPLAALPAFLrhYdPEVYRFLSRAVapteeALRAHLEGLL-GEp---GRVNWAILFGKEVAIRISVIAPE-----HAKLEIGTMLFKPWGSPANKEAKYL LRHAFEV LRAERVQFKVDLRNERSORALEALGAVREGVLRK NRRLpdgafRDDVVysvlkeewpgvkarlearlygasgnp</p> <p>-----rkrcc  vlkeewpgvkarlearlygasgnp-----</p>
415	1s60A (152)	C	7.89	<p>TM-align: aliSize=124 (resi) RMSD=3.15 (Å)  lvprg--SHMDIROMN--K-TLHLEHWRLRkOLW----GHpdd--AH1-ADGeEIlqadhLASFIAMADG-VATGFADASIRHDYvngcdsspVVFLEGITFIFLPSFRORGVAKOLIAAVORWGTNKGCRMASDTSPE NTISOKVHOALGFEE-ET-E-R--VIF-YRkrc-----  -----mkGLLDFDILTndgThRNMkLLIDkNIFsrqlpkmPK-----yIvK-lVFD-RH----HESMVILKkQVIGGICFRQYKPO-----RFAEVAFLATANEQVRYGTRMnkFKDHMQKONI-YLLTYA--DNFAIGYFKKQGftkEhRmpQekWkgYIkdYdggtImecyihpyv</p> <p>----  dygn</p> <p>SARST: aliSize=119 (resi) RMSD=5.04 (Å)  lvprgshmd---IROMNktHLEHWRLR---KOLWpGHpddHLAGDGEIIOADHLASFIAMADGVAIGFADASIRHDYvngcdsspVVFLEGITFIFLPSFRORGVAKOLIAAVORWGTNKGCRMASDTSPE NTISOKVHOALGFEE-ET-E-R--VIF-YRkrc-----  -----mkgllDFDILTNDGTHRNMkLLIDkNIFsrqlpkmPK-----KEYIVKLVFDRHESMVILKkQVIGGICFRQYKPO-----RFAEVAFLATANEQVRYGTRMnkFKDHMQKONI-YLLTYA--DNFAIGYFKKQGftkEhRmpQekWkgYIkdYdggtImecyihpyvdygn---</p> <p>rvifyrkrcc</p> <p>BLAST: aliSize=11 (resi) iden=3.95% (6/152) simi=7.24% (11/152)  lvprgshmdirqmktHLEHWRLRkqlwpgHPDdHLAGDGEIIOADHLASFIAMADG-VATGFADASIRHDYvngcdsspVVFLEGITFIFLPSFRORGVAKOLIAAVORWGTNKGCRMASDTSPE NTISOKVHOALGFEE-ET-E-R--VIF-YRkrc-----  -----mkgllDFDILTNDGTHRNMkLLIDkNIFsrqlpkmPK-----yIvK-lVFD-RH----HESMVILKkQVIGGICFRQYKPO-----RFAEVAFLATANEQVRYGTRMnkFKDHMQKONI-YLLTYA--DNFAIGYFKKQGftkEhRmpQekWkgYIkdYdggtImecyihpyvdygn---</p> <p>-----adasirhdYvngcdsspVvfLEIIFVLPFRORGVAKOLIAAVORWGTNKGCRMASDTSPE NTISOKVHOALGFETERVIFYKrc-----  dydggtImecyihpyvdygn-----</p> <p>Proposed: aliSize=120 (resi) RMSD=2.37 (Å)  lvprgshmd---HMDIROMN--K-TLHLEHWRLRkOLW----WpGHpddah---lAd-geEIlqadhLASFIAMADGVAIGFADASIRHDYvngcdsspVVFLEGITFIFLPSFRORGVAKOLIAAVORWGTNKGCRMASDTSPE NTISOKVHOALGFEE-ET-E-R--VIF-YRkrc-----  -----mkgllDFDILTNDGTHRNMkLLIDkNIFsrqlpkmPK-----eyi---Vklv-Fd--RH----HESMVILKkQVIGGICFRQYKPO-----RFAEVAFLATANEQVRYGTRMnkFKDHMQKONI-YLLTYA--DNFAIGYFKKQGftkEhRmpQekWkgYIkdYdggtImecyihpyvdygn---</p> <p>RC-----c  HPydygnc-</p>
416	1s7fA (181)	C	10.18	<p>TM-align: aliSize=142 (resi) RMSD=3.37 (Å)  glvprgshmvEiIPVstTLELRAdESHVPALHOVlkNKAWLQOSldwP TsqeETRHVVOGNILlHORGyakMYLIFCON-----EMAVLSFNAIEP--INNAAYIG-YWLDESFOGQIMSOS-IA-MTHYAR-GDIRRFVTKCRVDNOASNAVARRHFTLEG--MKQAEYIngdyhDvnm  -----KfVIRPATA-ADCSDILRLIKELAKYEYME--EQVI--LHKDLEDGFG-EHPFYHCLVAEPVkehwtpeghSIVGFAMYFTYDpwGKLLYledFFVMSDYRFGIGSEIKNSQVAM-CRCSMHLVAEWEPSINFYKRRGASDLsseeqwr-LFK</p> <p>yarii-----  -----idkeyllkmat</p> <p>SARST: aliSize=128 (resi) RMSD=4.67 (Å)  glvprgshmvEiIPVstTLELRAdESHVPALHOVlkNKAWLQOSldwP TsqeetrkhvqGNIHORG---YAKMYLIFC-----ONE-MAVLS--SnaIEPINKAAYI--GYWLDESFOGQIMSOS-IA-MTHYAR-GDIRRFVTKCRVDNOASNAVARRHFTL-----  -----kFVIRPATAADCSDILRLIKELAKYEYMEEQVILT-----EKDLEDGFGehpFYHCLVAEPVkehwtpeghSIVGFAMYFTYDpwGKLLYledFFVMSDYRFGIGSEIKNSQVAM-CR-CSSMHLVAEWEPSINFYKRRGASDLsseeqwrIfkidkey</p> <p>-----eCmkqaeyIngdyhDvnmYarii  llkmat-----</p> <p>BLAST: aliSize=29 (resi) iden=9.58% (16/167) simi=17.37% (29/167)  glvprgshmvEiIPVstTLELRAdeshvpalhqlvlnkawLqQslDwP TsqeetrkhvqgnilHQrgyakmylIFCNemagVLSfnaI-----E-INKAAYI-GYWLDESFOGQIMSOS-IA-MTHYAR-GDIRRFVTKCRVDNOASNAVARRHFTLEG--MKQAEYIngdyhDvnm  -----KfVIRPATAADCSDILRLIKELAKYEYMEEQVILT-----EKDLEDGFGehpFYHCLVAEPVkehwtpeghSIVGFAMYFTYDpwGKLLYledFFVMSDYRFGIGSEIKNSQVAM-CRCSMHLVAEWEPSINFYKRRGASDLsseeqwrIfkidkey</p> <p>ORQIMSOS-IA-MTHYAR-GDIRRFVTKCRVDNOASNAVARRHFTLEG--MKQAEYIngdyhDvnmYarii  RFFGIGSEIKNSQVAM-CRCSMHLVAEWEPSINFYKRRGASDLsseeqwrIfkidkeyllkmat-----</p> <p>Proposed: aliSize=140 (resi) RMSD=2.84 (Å)  glvprgshmvEiIPVstTLELRAdESHVPALHOVlkNKAWLQOSldwP TsqeETRHVVOGNILlHORGyakMYLIFCON-----EMAVLSFNAIE---piNNAAYIG-YWLDESFOGQIMSOS-IA-MTHYAR-GDIRRFVTKCRVDNOASNAVARRHFTLEG--MKQAEYIngdyhDvnm  -----KfVIRPATAADCSDILRLIKELAKYEYMEEQVILT-----VI--LHKDLEDGFGehpFYHCLVAEPVkehwtpeghSIVGFAMYFTYDpwGKLLYledFFVMSDYRFGIGSEIKNSQVAM-CRCSMHLVAEWEPSINFYKRRGASDLsseeqwr-----W-----</p> <p>edYHDVNM---YAR--Ii  --RLFKIDkeyLLkmat-</p>

417	<p>1s7fA (181)</p> <p>2fe7B (166)</p>	N	10.24	<p>TM-align: aliSize=143 (resi) RMSD=3.28 (Å)  glvprgshmvveipvs-----TLELRAdESHVPALHOLVlknkAWLOOSLdWPTsqEETRKHVOGNIllhORGYAKMYLIFCONEMA VLSNAIEP---INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----enlyfqghMLEIRPVPADAEQILAFIIELDYERAR-hEVV--TDVEGIRRSLEA--EGSPTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAVAND-CGLEWSVLDWQPAIDFY SIGALPQDEWVRYRL-----</p> <p>arii-----  ----dgealrkmae</p> <p>SARST: aliSize=146 (resi) RMSD=7.40 (Å)  glvprgs---HMVEIIPvsstLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqeetrkhvOGNILLHOR--YAKMYLIFCONEMA VLSNAIEPINKAAYI---GYWLDDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTL--GCmKqaEYLN-----gd  -----enlyfQGHMTLEIRPVPADAEQILAFIIELDYERARHEVVD-----VEGIRRSLEA--EGSPTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAVAND-CGLEWSVLDWQPAIDFY SIGALPQdWVRY--RLDGealrkmae--</p> <p>yhdvnmarii</p> <p>BLAST: aliSize=47 (resi) iden=18.67% (31/166) simi=28.31% (47/166)  glvprgshmvveipvs-----TLELRAdeshVPALHOLVlknkAWLOOSLDWPTsqEETRKHVOGNIllhORGYAKMYLIFCONEMA VLSNAIEP---INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----enlyfqghMLEIRPVPADAEQILAFIIELDYERARHEVVD-----VEGIRRSLEA--EGSPTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAVAND-CGLEWSVLDWQPAIDFY SIGALPQdWVRY--RLDGealrkmae--</p> <p>-----gdrrfvikcrvdnqasnavarrnhftlegcmkqaeylNgdyhdvnmarii  ryrldgealrkmae-----</p> <p>Proposed: aliSize=143 (resi) RMSD=2.61 (Å)  glvprg-SHMVEIIPvsstLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqeETRKHVOGNIllhOR-gYAKMYLIFCONEMA VLSNAIEP---pINKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKqaEYlNgdyhdvnm  -----enlyfQGHMTLEIRPVPADAEQILAFIIELDYERARhe----VVT--DVEGIRRSLEA--EGS-PTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAV-ANDCGLEWSVLDWQPAIDFY SIGALPQDEWV-RYrldgealrkmae--</p> <p>ngdyhdvnmarii</p>
418	<p>1s7fA (181)</p> <p>2fe7B (166)</p>	C	10.84	<p>TM-align: aliSize=143 (resi) RMSD=3.28 (Å)  glvprgshmvveipvs-----TLELRAdESHVPALHOLVlknkAWLOOSLdWPTsqEETRKHVOGNIllhORGYAKMYLIFCONEMA VLSNAIEP---INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----enlyfqghMLEIRPVPADAEQILAFIIELDYERAR-hEVV--TDVEGIRRSLEA--EGSPTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAVAND-CGLEWSVLDWQPAIDFY SIGALPQDEWVRYRL-----</p> <p>arii-----  ----dgealrkmae</p> <p>SARST: aliSize=146 (resi) RMSD=7.40 (Å)  glvprgs---HMVEIIPvsstLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqeetrkhvOGNILLHOR--YAKMYLIFCONEMA VLSNAIEPINKAAYI---GYWLDDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTL--GCmKqaEYLN-----gd  -----enlyfQGHMTLEIRPVPADAEQILAFIIELDYERARHEVVD-----VEGIRRSLEA--EGSPTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAVAND-CGLEWSVLDWQPAIDFY SIGALPQdWVRY--RLDGealrkmae--</p> <p>yhdvnmarii</p> <p>BLAST: aliSize=47 (resi) iden=18.67% (31/166) simi=28.31% (47/166)  glvprgshmvveipvs-----TLELRAdeshVPALHOLVlknkAWLOOSLDWPTsqEETRKHVOGNIllhORGYAKMYLIFCONEMA VLSNAIEP---INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----enlyfqghMLEIRPVPADAEQILAFIIELDYERARHEVVD-----VEGIRRSLEA--EGSPTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAVAND-CGLEWSVLDWQPAIDFY SIGALPQdWVRY--RLDGealrkmae--</p> <p>-----gdrrfvikcrvdnqasnavarrnhftlegcmkqaeylNgdyhdvnmarii  ryrldgealrkmae-----</p> <p>Proposed: aliSize=139 (resi) RMSD=2.52 (Å)  glvprgshmvveipvs-----TLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqeETRKHVOGNIllhOR-gYAKMYLIFCONEMA VLSNAIEP---pINKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKqaEYlNgdyhdvnm  -----enlyfqghMLEIRPVPADAEQILAFIIELDYERARhe----VVT--DVEGIRRSLEA--EGS-PTRALMCLSEGRPIYAVFYYSYStwLGRNGI LEdLYVTPEYRQVAGRRLREAREAV-ANDCGLEWSVLDWQPAIDFY SIGALPQD-----</p> <p>hDVMNARI---I-----  EWVRRLDgealrkmae</p>
419	<p>1s7fA (181)</p> <p>2g3tA (169)</p>	C	11.24	<p>TM-align: aliSize=142 (resi) RMSD=3.39 (Å)  glvprgshmvveipvsTLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqEETRKHVOGNIllhORGYAKMYLIFCONEMA VLSNAIEP---INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----KFVIRPATA-ADCSIDLRLIKELAKYEYME--EQVI--LEKDLLEDGFG-EPHYHCLVAEVPKehwtpghSIVGFAMYFYTYDpwGGLLYLEdFFVMSDYRFGGSEIKNSQVAM--RCRCSSMHFLVAEWNEPSINFYKRRGASDLSseegwR-LFK-----</p> <p>yarii-----  ----idkeyllkmatee</p> <p>SARST: aliSize=136 (resi) RMSD=6.14 (Å)  glvprgshmvveipvsTLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqeetrkhvOGNILLHOR--YAKMYLIFCONEMA VLSNAIEPINKAAYI---GYWLDDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKqaEYlNgdyhdvnm  -----kFVIRPATA-ADCSIDLRLIKELAKYEYMEEQVILT-----EKDLEDGFGehpFYHCLVAEVPkehwtPEHGSIVGFAMYFYTYDpwGGLLYLEdFFVMSDYRFGGSEIKNSQVAM--RCRCSSMHFLVAEWNEPSINFYKRRGASDLSseegwR-----</p> <p>edYhdvnmYARI-----i  -----FKIDkeyllkmatee-</p> <p>BLAST: aliSize=29 (resi) iden=9.47% (16/169) simi=17.16% (29/169)  glvprgshmvveipvsTLELRAdeshvpalhqlvknkawlqslwdwptsqeetrkhvqgnillhrgyakmylifconemagvlsfnai-----E--INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----kfvirpataadcsdilrlikelakyeymeeqviltekdllledgfghepFYHCLVAEVPkehwtpeghsivgfamyfTyDpwGGLLYLEdFFVMSDYRFGGSEIKNSQVAM--RCRCSSMHFLVAEWNEPSINFYKRRGASDLSseegwR-----</p> <p>-----nhftlegcmkqaeylNgdyhdvnmarii  -----E--INKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKQAEYlNgdyhdvnm  -----kfvirpataadcsdilrlikelakyeymeeqviltekdllledgfghepFYHCLVAEVPkehwtpeghsivgfamyfTyDpwGGLLYLEdFFVMSDYRFGGSEIKNSQVAM--RCRCSSMHFLVAEWNEPSINFYKRRGASDLSseegwR-----</p> <p>Proposed: aliSize=140 (resi) RMSD=2.70 (Å)  glvprgshmvveipvsTLELRAdESHVPALHOLVlknkAWLOOSLDWPTsqeETRKHVOGNIllhORGYAKMYLIFCONEMA VLSNAIEP---pINKAAIG-YWLDESFOGQIMSOSOA MTHYARRGdIRRFVlKCRVDNOASNAVARRNHFTLEGCmKqaEYlNgdyhdvnm  -----kfvirpATA-ADCSIDLRLIKELAKYEYMEeq-----VI--LEKDLLEDGFGehpFYHCLVAEVPkehwtpeghSIVGFAMYFYTYDpwGGLLYLEdFFVMSDYRFGGSEIKNSQVAM--RCRCSSMHFLVAEWNEPSINFYKRRGASDLSseegwR-----</p> <p>GDYHDVNM---A-R--II-  EGWRLFKIdkeLLkmaTee</p>

420	<p>1s7fA (181)</p> <hr/> <p>2jevA (169)</p>	C	11.24	<p><b>TM-align:</b> aliSize=143 (resi) RMSD=3.55 (Å)  glvprgshmeiipvsttLELRAdESHVPALHOVLKNAWLOOSLDWPTSQEERKHVQGNILLhORGYAKMYLIFCON-----EMAVLSFNALIEP--INAAAYIG-YWLDESFOGOGTMSOSAOAMTHYARFGDIRRFVTKCRVDNOASNAVARRNHFTLEGC--MKaAEYIngdyhdvnm  -----AKFVIRPATA-ADCSIDLRLIKELAKYEYME--EQVI--LTKDLEDGFG-EHPFYHCLVAEVPKehwtpgehSIVGFAMYFYFTYDpwGALLYLeDFFVMSDYRFGIGSEIKNSQVAM-CRCSMHLVAEWNEPSINFYKRRGASDLsSeegwrLfk-----</p> <p>yarii-----  -----idkeyllkmate</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=4.68 (Å)  glvprgshmeiipvsttLELRAdESHVPALHOVLKNAWLOOSLDWPTSQEERKHVQGNILLhORG---YAKMYLIFC-----ONE-MAIVL--SInAIEFINKAAYI--GYWLDESFOGOGTMSOSAOAMTHYARFGDIRRFVTKCRVDNOASNAVARRNHFTLE-----  -----akFVIRPATA-ADCSIDLRLIKE-LAKYEYMEEQVILT-----KDLLEDGFGehpFYHCLVAEVPkehwtpeghSIVGFAMYFYFTYDpwGALLYLeDFFVMSDYRFGIGSEIKNSQVAM-CR-CSSMHLVAEWNEPSINFYKRRGASDLsSeegwrLfkidke</p> <p>-----gcmkqaeyIngdyhdvnmarii  yilkmate-----</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=9.47% (16/169) simi=17.16% (29/169)  glvprgshmeiipvsttLELRAdESHVPALHQLVlknkawlqslDwptSQEERKHVQGNILLhrgyakmylifcnemagvlsfnai-----EINAAAYI-GYWLDES  -----akfvirpataadcsdilrlikelakyeymeeqviltekdllEdgfghepFYHCLVAEVPkehwtpeghsivgfamyftyDwGALLYLeDFFVMSD  FOGOGTMSOSAOAMTHYARFGDIRRFVTKCRVDNOASNAVARRNHFTLE-----nhftleGcmkqaeyIngdyhdvnmarii  YRFGIGSEIKNSQVAM-CRCSMHLVAEWNEPSINFYKRRGASDLsSeegwrLfkidkeyllkmate-----</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=2.88 (Å)  glvprgshmeiipvsttLELRAdESHVPALHOVLKNAWLOOSLDWPTSQEERKHVQGNILLhORGYAKMYLIFCON-----EMAVLSFNALIEP--INAAAYIG-YWLDESFOGOGTMSOSAOAMTHYARFGDIRRFVTKCRVDNOASNAVARRNHFTLEGC--cmkaevlN  -----akFVIRPATA-ADCSIDLRLIKELAKYEYMEeq-----VI--LTKDLEDGFGehpFYHCLVAEVPkehwtpeghSIVGFAMYFYFTYDpwGALLYLeDFFVMSDYRFGIGSEIKNSQVAM-CRCSMHLVAEWNEPSINFYKRRGASDLsSe-----E  GDYHDVNM--A-R--II  GWRLFKTDkeLlkmaTE</p>
421	<p>1sjvA (102)</p> <hr/> <p>1dqH (123)</p>	C	62.75	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.88 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----  vqlvesgGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=14.71 (Å)  gg-----GLVQAGEESLKLSCAASG---GFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSY-----WGQGTQVTV--ss  --vqlvesggGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS--</p> <p><b>BLAST:</b> aliSize=79 (resi) iden=67.65% (69/102) simi=77.45% (79/102)  -----GGLVQAGEESLKLSCAASG---GFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----YTHYFRSyywgggtqvtvss  vqlvesGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS</p> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=1.65 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----YTHYFRSyywgggtqvtvss  pvqlvesgGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS</p>
422	<p>1sjvA (102)</p> <hr/> <p>1f2xK (126)</p>	C	69.61	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.65 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----  qvlvesgGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=16.12 (Å)  g-----GGLVQAGEESLKLSCAASG---GFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----YTHYFRSyywgggtqvtvss  -qvlvesggGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS--</p> <p><b>BLAST:</b> aliSize=82 (resi) iden=73.53% (75/102) simi=80.39% (82/102)  -----GGLVQAGEESLKLSCAASG---GFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----YTHYFRSyywgggtqvtvss  qvlvesGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.34 (Å)  g-----GGLVQAGEESLKLSCAA---S--GGFMGYROAPGKQRELVAITNSRfITNADFKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRSyywgggtqvtvss-----YTHYFRSyywgggtqvtvss  -qvlvesggGGLVQPGSLRLSCAASgftfsSYAHVVRQAPGKGLFWAVISSDgNKYITDSVKGRFTISRDNKNTLYLQMSLRTEDTAVFYCARgnppYSSGwGGDYWGQGMVTVSS</p>

423	<p>lsjvA (102)</p> <hr/> <p>lf2xL (126)</p>	C	69.61	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.55 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS--ywgqgtqvtvss-----  vqlvesgGGSVQAGGSLRLSCAASgyTvsTYCMGWFROAPGKEREVATILG--ISTYYGDSVKGRFTISQDNAKNTVYLQMNLSKPEDTAIYYCAGSTVA-----stgwcsrlrpydyhrgggtqvtvssr</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=16.15 (Å)  g-----GGLVQAGEESLKLSCAASG---GFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----WGGTQVTVS--s  -vqlvesgGGSVQAGGSLRLSCAASgyTvsTYCMGWFROAPGKEREVATILG--ISTYYGDSVKGRFTISQDNAKNTVYLQMNLSKPEDTAIYYCAGSTVASTgwcsrlrpydyhRGGTQVTVSsr</p> <p><b>BLAST:</b> aliSize=82 (resi) iden=73.53% (75/102) simi=80.39% (82/102)  -----GGGLVQAGEESLKLSCAASG---GFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----YTHYFRS--WGGTQVTVSS--  vqlvesGGSVQAGGSLRLSCAASgyTvsTYCMGWFROAPGKEREVATILG--ISTYYGDSVKGRFTISQDNAKNTVYLQMNLSKPEDTAIYYCAGstvasrgwcsrlrpydyhRGGTQVTVSSr</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.43 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RS--WGGTQVTVSS--  vqlvesgGGSVQAGGSLRLSCAASgyTvsTYCMGWFROAPGKEREVATILG--ISTYYGDSVKGRFTISQDNAKNTVYLQMNLSKPEDTAIYYCAGSTVASTgwcsrlrpydyhRGGTQVTVSSr</p>
424	<p>lsjvA (102)</p> <hr/> <p>li3vA (129)</p>	C	67.65	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.48 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGWYRQAPGKQRELVATINSR-----GITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS--ywgqgtqvtvss-----  qvqlqeSgGGLVQAGDSLKLSCAASgdsiGTYVIIGWFRQAPGKERIYLATIGRNlvgpsdfYTRYADSVKGRFAVSRDNAKNTVNLQMNLSKPEDTAVYYCAAKTT-----twggndpnnwnywgqgtqvtvss</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=14.83 (Å)  gg-----GLVQAGEESLKLSCA---ASGGFMGWYRQAPGKQRELVATINSR---RGIT--NYADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----YWGQGTQVTVS--ss  --qvqlqesggGLVQAGDSLKLSCAASgdsiGTYVIIGWFRQAPGKERIYLATIGRNlvgpsdfYTRYADSVKGRFAVSRDNAKNTVNLQMNLSKPEDTAVYYCAAKTTTWggndpnnwnYWGQGTQVTVS--ss</p> <p><b>BLAST:</b> aliSize=84 (resi) iden=73.53% (75/102) simi=82.35% (84/102)  -----GGGLVQAGEESLKLSCAASG---GFMGWYRQAPGKQRELVATINSR-----GITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFR-----SYWGQGTQVTVSS  qvqlqesGGGLVQAGDSLKLSCAASgdsiGTYVIIGWFRQAPGKERIYLATIGRNlvgpsdfYTRYADSVKGRFAVSRDNAKNTVNLQMNLSKPEDTAVYYCAAKTTTWggndpnnwnYWGQGTQVTVSS</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.50 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGWYRQAPGKQRELVATINSR-----GITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RSYWGQGTQVTVSS  qvqlqeSgGGLVQAGDSLKLSCAASgdsiGTYVIIGWFRQAPGKERIYLATIGRNlvgpsdfYTRYADSVKGRFAVSRDNAKNTVNLQMNLSKPEDTAVYYCAAK-TtwggndpnnwnYWGQGTQVTVSS</p>
425	<p>lsjvA (102)</p> <hr/> <p>li8kB (119)</p>	C	57.84	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.59 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS--ywgqgtqvtvss-----  qvklqqsGGLVKPAAASLKLSCVTSgftfrKFGMSVVRQTSDCLEWVASISTGyNYYSDNVKGRFTISRDNAKNTLYLQMNLSKSEDTALYYCTRYSSTSyamdywgqgttvtvs</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=14.75 (Å)  g-----GGLVQAGEESLKLSCA---AASG---GFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----WGGTQVTVS--ss  -qvklqqsGGLVKPAAASLKLSCVTSgftfrKFGMSVVRQTSDCLEWVASISTGyNYYSDNVKGRFTISRDNAKNTLYLQMNLSKSEDTALYYCTRYSSTSyamdyWGGTQVTVS--</p> <p><b>BLAST:</b> aliSize=77 (resi) iden=64.71% (66/102) simi=75.49% (77/102)  -----GGGLVQAGEESLKLSCAASG---GFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----YTHYFRS--WGGTQVTVSS  qvklqqsGGGLVKPAAASLKLSCVTSgftfrKFGMSVVRQTSDCLEWVASISTGyNYYSDNVKGRFTISRDNAKNTLYLQMNLSKSEDTALYYCTRgYsSTSYAMDYWGQGTQVTVS-</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.63 (Å)  -----G-GGLVQAGEESLKLSCAA---S--GGFMGWYRQAPGKQRELVATINSR--ITINADFKVGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF--F-RS--YWGQGTQVTVSS  qvklqqsGGLVKPAAASLKLSCVTSgftfrKFGMSVVRQTSDCLEWVASISTGyNYYSDNVKGRFTISRDNAKNTLYLQMNLSKSEDTALYYCTRgy-SstSyAmDYWGQGTQVTVS-</p>

426	<p>lsjvA (102)</p> <hr/> <p>lic4H (114)</p>	C	40.20	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=1.75 (Å)  -----G-GGLVQAGESLKLSCAA-----SG--GFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYTHYfrsywgggtqvtvss-----  dvqlqeSgPSLVKPSQTLSTTCSVTgdSItSAYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWD-----gdYwgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=1.95 (Å)  ggg-----LVQAGESLKLSCAASG-----GFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCY-----thyfrsywgggtqvtvss  ---dvqlqesgpsLVKPSQTLSTTCSVTgdsitsAYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDgdYwgggtlvtvsaa-----</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESLKLSCAASG-----GFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYTHYFRSYWGGGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTgdsitsAYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDGDYWGQGTLVTVSAA</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.71 (Å)  -----G-GGLVQAGESLKLSCAA-----SG--GFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYT-hyFRSYWGGGTQVTVSS-  dvqlqeSgPSLVKPSQTLSTTCSVTgdSItSAYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--DGDYWGQGTLVTVSAA</p>
427	<p>lsjvA (102)</p> <hr/> <p>lic5H (114)</p>	C	40.20	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=1.71 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYTHYfrsywgggtqvtvss-----  dvqlqeSgPSLVKPSQTLSTTCSVTgdsiTSDYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWA-----gdYwgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.21 (Å)  ggg-----LVQAGESLKLSCAASGF-----MGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYthyFRS----YWGQGTQVTVSS--s  ---dvqlqesgpsLVKPSQTLSTTCSVTDSi t sdyWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATY-----YCANwagdyWGQGTLVTVSaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESLKLSCAASG-----FMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYTHYFRSYWGGGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTgdsi t sdyWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWAGDYWGQGTLVTVSAA</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.66 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYT-hyFRSYWGGGTQVTVSS-  dvqlqeSgPSLVKPSQTLSTTCSVTgdsi t sdyWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--AGDYWGQGTLVTVSAA</p>
428	<p>lsjvA (102)</p> <hr/> <p>lic7H (114)</p>	C	39.22	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.93 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYTHYFRsywgggtqvtvss-----  dvqlqeSgPSLVKPSQTLSTTCSVTgdsiTSAYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWAG-----dywgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.19 (Å)  ggg-----LVQAGESLKLSCAASGF-----MGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYthyFRS----YWGQGTQVTVSS--s  ---dvqlqesgpsLVKPSQTLSTTCSVTDSi t sayWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATY-----YCANwagdyWGQGTLVTVSaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESLKLSCAASG-----GFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYTHYFRSYWGGGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTgdsi t sayWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWAGDYWGQGTLVTVSAA</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.63 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAFPGKQRELVATINSRITINADLVKGRFTSRDPAKKTIVLEMSLEPEDTAVVYCYT-hyFRSYWGGGTQVTVSS-  dvqlqeSgPSLVKPSQTLSTTCSVTgdsiTSAYWSWIRKFFGNRLIYMGVYSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--AGDYWGQGTLVTVSAA</p>

429	<p><b>IsvA (102)</b></p> <hr/> <p><b>IjhlH (116)</b></p>	C	41.18	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.77 (Å)  -----GGGLVQAGEESLKLSCAA----S--GGFMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRS<sup>hyfrs</sup>ywgggtqvtvss-----  qvqlqasGAELVRPAA<sup>ASV</sup>KLSCA<sup>KAS</sup>gyTfiSYWINVVKR<sup>FG</sup>GLEWIGNIYPSDSYINYNQKFDKAILTVKSSSTAYMQLSSPTSEDSAVYYCTR<sup>DDNY</sup>-----gamdywgggtttvtv</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=2.03 (Å)  gg-----GLVQAGEESLKLSCAAASG-----GFMGYRQAPGKQRELVAITINSR-GITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYT-----hyfrs<sup>hyfrs</sup>ywgggtqvtvss  --qvqlqasgaELVRPAA<sup>ASV</sup>KLSCA<sup>KAS</sup>gyTfisyWINVVKR<sup>FG</sup>GLEWIGNIYPSdSYINYNQKFDKAILTVKSSSTA<sup>MQLS</sup>PTSEDSAVYYCTR<sup>ddnygamd</sup>ywgggtttvtv-----</p> <p><b>BLAST:</b> aliSize=62 (resi) iden=44.12% (45/102) simi=60.78% (62/102)  -----GGGLVQAGEESLKLSCAAASG-----FMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCY--THY-FRS<sup>YWGQGTQVTV</sup>ss  qvqlqasGAELVRPAA<sup>ASV</sup>KLSCA<sup>KAS</sup>gyTfisyWINVVKR<sup>FG</sup>GLEWIGNIYpSDSYINYNQKFDKAILTVKSSSTAYMQLSSPTSEDSAVYYCTR<sup>DDNY</sup>gAM<sup>DYWGQGTITVT</sup>--</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.65 (Å)  -----GGGLVQAGEESLKLSCAA----S--GGFMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTH--YFRS<sup>YWGQGTQVTV</sup>ss  qvqlqasGAELVRPAA<sup>ASV</sup>KLSCA<sup>KAS</sup>gyTfiSYWINVVKR<sup>FG</sup>GLEWIGNIYPSDSYINYNQKFDKAILTVKSSSTAYMQLSSPTSEDSAVYYCTR<sup>DDnYGAM</sup>DYWGQGTITVT--</p>
430	<p><b>IsvA (102)</b></p> <hr/> <p><b>IjtoA (132)</b></p>	C	72.55	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.71 (Å)  -----GGGLVQAGEESLKLSCAA----SGGFMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRS<sup>YWGQGTQVTVSS</sup>-----  vqlqasGGGSVQAGGSLRLSCAAsgytiGPYCMGWFRQAPGKERE<sup>GVA</sup>AINMGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIY<sup>asyyecghl</sup>stgggyd<sup>swgggtqvtvss</sup></p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=16.11 (Å)  g-----GGLVQAGEESLKLSCA---ASGDF--MGWYRQAPGKQRELVAITINSR-GITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRS<sup>YWGQGTQVTVSS</sup>-s  -vqlqasgGGSVQAGGSLRLSCAasgYTIIPycMGWFRQAPGKERE<sup>GVA</sup>AINMGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIY<sup>asyyecghl</sup>stgggyd<sup>SWGQGTQVTVSS</sup>-s</p> <p><b>BLAST:</b> aliSize=87 (resi) iden=79.41% (81/102) simi=85.29% (87/102)  -----GGGLVQAGEESLKLSCAAASG-----FMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYC-----YTHYFR<sup>SY</sup>-----WGQGTQVTVSS  vqlqasGGGSVQAGGSLRLSCAAsgytiGpyCMGWFRQAPGKERE<sup>GVA</sup>AINmGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAadstiYASYYE<sup>cgghl</sup>stgGy<sup>gdswgggtqvtvss</sup></p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.34 (Å)  g-----GGLVQAGEESLKLSCA---SGGFMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYF<sup>RS</sup>-----RS-Y<sup>WGQGTQVTVSS</sup>  -vqlqasgGGSVQAGGSLRLSCAAsgytiGPYCMGWFRQAPGKERE<sup>GVA</sup>AINMGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIY<sup>asyyecghl</sup>stgggy<sup>GyDswgggtqvtvss</sup></p>
431	<p><b>IsvA (102)</b></p> <hr/> <p><b>IjtpA (135)</b></p>	C	72.55	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.63 (Å)  -----GGGLVQAGEESLKLSCAA----SGGFMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYFRS<sup>YWGQGTQVTVSS</sup>-----  dvqlqasGGGSVQAGGSLRLSCAAsgytiGPYCMGWFRQAPGKERE<sup>GVA</sup>AINmGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIY<sup>asyyecghl</sup>stgggyd<sup>swgggtqvtvssrr</sup></p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=1.74 (Å)  g-----GGLVQAGEESLKLSCA---ASGDF--MGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTH-----yfrs<sup>ywgggtqvtvss</sup>  -dvqlqasgGGSVQAGGSLRLSCAasgYTIIPycMGWFRQAPGKERE<sup>GVA</sup>AINMGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADs<sup>tiasyyecghl</sup>stgggyd<sup>swgggtqvtvssrr</sup>-----</p> <p><b>BLAST:</b> aliSize=87 (resi) iden=79.41% (81/102) simi=85.29% (87/102)  -----GGGLVQAGEESLKLSCAAASG-----FMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYC-----YTHYFR<sup>SY</sup>-----WGQGTQVTVSS  dvqlqasGGGSVQAGGSLRLSCAAsgytiGpyCMGWFRQAPGKERE<sup>GVA</sup>AINmGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAadstiYASYYE<sup>cgghl</sup>stgGy<sup>gdswgggtqvtvssrr</sup></p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.13 (Å)  g-----GGLVQAGEESLKLSCA---SGGFMGYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKIVYLEMNSLEPEDTAVYYCYTHYF<sup>RS</sup>-----R-SY<sup>WGQGTQVTVSS</sup>--  -dvqlqasgGGSVQAGGSLRLSCAAsgytiGPYCMGWFRQAPGKERE<sup>GVA</sup>AINMGGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIY<sup>asyyecghl</sup>stgggy<sup>GyDswgggtqvtvssrr</sup></p>



432	<p>lsjvA (102)</p> <p>ljtpB (133)</p>	C	73.53	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=1.84 (Å)  -----G-GGLVQAGEESLKLSCAA-----S-GFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYwgqgtqvtvss-----  dvqlqaSgGGSVQAGGSLRLSCAASgytItpYCMGWFRQAPGKEREVAAINMGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIYA-----syyecghglstgggydswgqgtqvtvss</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=1.76 (Å)  g-----GGLVQAGEESLKLSCAAS-----G-FM--MGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTH-----yfrsywgqgtqvtvss  -dvqlqasgGGSVQAGGSLRLSCAASgytItpYCMGWFRQAPGKEREVAAINMGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADStiyasyecghglstgggydswgqgtqvtvss-----</p> <p><b>BLAST:</b> aliSize=87 (resi) iden=79.41% (81/102) simi=85.29% (87/102)  -----GGGLVQAGEESLKLSCAASG-----G--FMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----YTHYFR-----SY-----WGQGTQVTVSS  dvqlqasGGGSVQAGGSLRLSCAASgytItpYCMGWFRQAPGKEREVAAINMGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADStiYASYEcghglstgggydsWGQGTQVTVSS</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.13 (Å)  g-----GGLVQAGEESLKLSCAA-----S-GFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----R-SYWGQGTQVTVSS  -dvqlqasgGGSVQAGGSLRLSCAASgytItpYCMGWFRQAPGKEREVAAINMGGITTYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTiyasyecghglstgggydsWGQGTQVTVSS</p>
433	<p>lsjvA (102)</p> <p>lkxqE (120)</p>	C	66.67	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.70 (Å)  -----G-GGLVQAGEESLKLSCAA-----S-GGFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRsywgqgtqvtvss-----  qvqlveSgGGSVQAGGSLRLSCAASstYTDTVGWFRQAPGKEREVAAIYRRTTYTYSADSVKGRFTLSQDNNTVYLLQMSLKPEDTIGIYYCATGNS-----vrlaswegyfywgqgtqvtvss</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=14.70 (Å)  g-----GGLVQAGEESLKLSCAASGGF--MGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----YWGQGTQVTV--ss  -qvqlvesgGGSVQAGGSLRLSCAASTYTdtVGVFRQAPGKEREVAAIYRRTTYTYSADSVKGRFTLSQDNNTVYLLQMSLKPEDTIGIYYCATGNSVrlaswegyfyWGQGTQVTV--ss--</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=71.57% (73/102) simi=79.41% (81/102)  -----GGGLVQAGEESLKLSCAASG--GFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----HYFRsyWGQGTQVTVSS  qvqlvesGGGSVQAGGSLRLSCAASTYtDTVGVFRQAPGKEREVAAIYRRTTYTYSADSVKGRFTLSQDNNTVYLLQMSLKPEDTIGIYYCATGnsvrlasweGYF--YWGQGTQVTVSS</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.43 (Å)  g-----GGLVQAGEESLKLSCAA-----S-GGFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYHyF-----RS-YWGQGTQVTVSS  -qvqlvesgGGSVQAGGSLRLSCAASstYTDTVGVFRQAPGKEREVAAIYRRTTYTYSADSVKGRFTLSQDNNTVYLLQMSLKPEDTIGIYYCATG-NsvrlasweGYfyWGQGTQVTVSS</p>
434	<p>lsjvA (102)</p> <p>lmvfA (126)</p>	C	68.63	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.41 (Å)  -----G-GGLVQAGEESLKLSCAA-----S-GGFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRsywgqgtqvtvss-----  qvqlveSgGGSVQAGGSLRLSCAASgftYsRKYMGWFRQAPGKEREVAAIFIdNGNTIYADSVKGRFTISQDNAKNTVYLLQMSLKPEDTAMYYCAASSRW-----mdysaltakaynswgqgtqvtvss</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=16.00 (Å)  gg-----GLVQAGEESLKLSCA-----ASGGFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RSYWGQGTQVTVS--s  --qvqlvesggGGSVQAGGSLRLSCAASgftYsRKYMGWFRQAPGKEREVAAIFIdNGNTIYADSVKGRFTISQDNAKNTVYLLQMSLKPEDTAMYYCAASSRwmdysaltakaynswgqgtqvtvss--</p> <p><b>BLAST:</b> aliSize=87 (resi) iden=73.53% (75/102) simi=85.29% (87/102)  -----GGGLVQAGEESLKLSCAASG-----GFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----YTHY-----FRSY--WGQGTQVTVSS  qvqlvesGGGSVQAGGSLRLSCAASgftysRKYMGWFRQAPGKEREVAAIFIdNGNTIYADSVKGRFTISQDNAKNTVYLLQMSLKPEDTAMYYCAASSrWMDYsAltakAYnsWGQGTQVTVSS</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.12 (Å)  g-----GGLVQAGEESLKLSCAA-----S-GGFMGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RSYWGQGTQVTVSS  -qvqlvesgGGSVQAGGSLRLSCAASgftYsRKYMGWFRQAPGKEREVAAIFIdNGNTIYADSVKGRFTISQDNAKNTVYLLQMSLKPEDTAMYYCAASSRwmdysaltakAYnsWGQGTQVTVSS</p>

435	IsjvA (102)	C	44.12	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.78 (Å)</p> <pre> -----GGGLVQAGEESLKLSCAA---S--GGFVGVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTHYFRsywgqgtqvtvss----- evqlqqsPELKKPGETVKISCKATnyAftDYSVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFVRDRHD-----ygeiftywgqgttvtvsa </pre>
	In4xH (120)			<p><b>SARST:</b> aliSize=84 (resi) RMSD=2.10 (Å)</p> <pre> gg-----GLVQAGEESLKLSCAASG-----GFVGVYRQAPGKQRELVAITNS-RGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTH-----yfrsywgqgtqvtvss --evqlqqsGPELKKPGETVKISCKATnyAftDYSVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFVRDrhdygeiftywgqgttvtvsa----- </pre> <p><b>BLAST:</b> aliSize=66 (resi) iden=47.06% (48/102) simi=64.71% (66/102)</p> <pre> -----GGGLVQAGEESLKLSCAASG-GF-----GVYRQAPGKQRELVAITNSR-GITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCY-----YTHYFRSYWGOGTQVTVSS evqlqqsGPELKKPGETVKISCKATnyAftdysVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFvrdrhdYGEIF-TYWGOGTQVTVSA </pre> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=1.55 (Å)</p> <pre> -----GGGLVQAGEESLKLSCAA---S--GGFVGVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTHYF---RS-YWGOGTQVTVSS evqlqqsPELKKPGETVKISCKATnyAftDYSVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFVRDRHdygeIFtYWGOGTQVTVSA </pre>
436	IsjvA (102)	C	35.29	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.77 (Å)</p> <pre> -----GGGLVQAGEESLKLSCAA---S--GGFVGVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTHYFRsywgqgtqvtvss----- evqlqqsPELKKPGETVKISCKATnyAftDYSVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFVRDRHD-----ygeiftywgqgttvtvss </pre>
	In4xI (119)			<p><b>SARST:</b> aliSize=76 (resi) RMSD=16.51 (Å)</p> <pre> gg-----GLVQAGEESLKLSCAASGG-----FVGVYRQAPGKQRELVAITNSRGItnyadvfk-----RFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTH-----YFRSYWGOGTQVTV--ss --evqlqqsGPELKKPGETVKISCKATnyAftDYSVHVKQAPG-----gdlkyvgwintetdeptfaddfkgRFAFSLDTSTSAFLQINNKNEDTATYFVRDrhdygeIIFTYWGOGTQVTV-- </pre> <p><b>BLAST:</b> aliSize=65 (resi) iden=47.06% (48/102) simi=63.73% (65/102)</p> <pre> -----GGGLVQAGEESLKLSCAASG-GF-----GVYRQAPGKQRELVAITNSR-GITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCY-----YTHYFRSYWGOGTQVTVSS evqlqqsGPELKKPGETVKISCKATnyAftdysVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFvrdrhdYGEIF-TYWGOGTQVTV-- </pre> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=1.72 (Å)</p> <pre> -----GGGLVQAGEESLKLSCAA---S--GGFVGVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTHYF---RSYWGOGTQVTVSS evqlqqsPELKKPGETVKISCKATnyAftDYSVHVKQAPGGDLKYVWVntETDEPTFADDFKGRFAFSLDTSTSAFLQINNKNEDTATYFVRDRHdygeIFTYWGOGTQVTVSS </pre>
437	IsjvA (102)	C	41.18	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.80 (Å)</p> <pre> -----GGGLVQAGEESLKLSCAA---S--GGFVGVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTHYFRsywgqgtqvtvss----- qvqlqqsGAELVKPAAASVRMSCKASgyTftNYNYVVKVSPGQGLEWIGIFYPNGDTSNQKFKDKALTLAKSSNTAYMQLSSLTSEDSAVVYCARSGGS-----yrydggfdywgqgttvtvss </pre>
	InmcH (122)			<p><b>SARST:</b> aliSize=83 (resi) RMSD=5.64 (Å)</p> <pre> gg-----GLVQAGEESLKLSCAASG-----FVGVYRQAPGKQRELVAITNSRGItnyadvfk-----RFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTH-----hyfrsywgqgtqvtvss --qvqlqqsGAELVKPAAASVRMSCKASgyTftNYNYVVKVSPGQGLEWIGIFYPNGDTSNQKFKDKALTLAKSSNTAYMQLSSLTSEDSAVVYCARsggsyrydggfdywgqgttvtvss----- </pre> <p><b>BLAST:</b> aliSize=65 (resi) iden=46.08% (47/102) simi=63.73% (65/102)</p> <pre> -----GGGLVQAGEESLKLSCAASG-GF-----GVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCY-----YTHYFRSYWGOGTQVTVSS qvqlqqsGAELVKPAAASVRMSCKASgyTftnynYVVKVSPGQGLEWIGIFYPNGDTSNQKFKDKALTLAKSSNTAYMQLSSLTSEDSAVVYCARsggsyrydGGFDYWGOGTQVTVSS </pre> <p><b>Proposed:</b> aliSize=102 (resi) RMSD=1.69 (Å)</p> <pre> -----GGGLVQAGEESLKLSCAA---S--GGFVGVYRQAPGKQRELVAITN-SRGITNYADFVKGRFTISRQNAKKTIVYLEMNSLEPEDTAVVYCYTH-Y-----FRS-YWGOGTQVTVSS qvqlqqsGAELVKPAAASVRMSCKASgyTftNYNYVVKVSPGQGLEWIGIFYPNGDTSNQKFKDKALTLAKSSNTAYMQLSSLTSEDSAVVYCARSGsrydGGFDYWGOGTQVTVSS </pre>

438	<p>IsjvA (102)</p> <hr/> <p>InqbA (232)</p>	C	26.47	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.60 (Å)  -----GGGLVQAGESLKLSCAA---S---GGFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  vqlqqsGAEVAKPCAIVKLSCKISgyTftSYWHVVKQRGRGLWIGRIDpNSGTKNEKFAASKALTLVDPKSSAYMQLSSITSEDSAVYYCARYDYI-----gssyfydwggtvtvssdieltqtplslpvsldqasiscrsssqsvhsngntylewylqkpgqspklliykvsnrfgsvpdrfsgs</p> <p>rfgsvpdrfsgsgsgtdftlkisrveadlgvyycfqgshvpytfgggtkleikr</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=18.32 (Å)  gg-GLVOA-----ESLKLSCA---AASG---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----THYFRSYWGGTQVTVSS-----  --qLQSSGaelvkpGASVKLSCkaSGYTftsYWHVVKQRGRGLWIGRIDpNSGTKNEKFAASKALTLVDPKSSAYMQLSSITSEDSAVYYCARYdygssyfydwgqGITVTVSSDIELTQVTVSSdieltqtplslpvsldqasiscrsssqsvhsngntylewylqkpgqspklliykvsnrfgsvpdrfsgs</p> <p>-----vss  gsgtdftlkisrveadlgvyycfqgshvpytfgggtkleikr---</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=50.00% (51/102) simi=66.67% (68/102)  -----GGGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----THYFRSYWGGTQVTVSS-----  qllqqsGAEVAKPCAIVKLSCKISgyTftsYWHVVKQRGRGLWIGRIDpNSGTKNEKFAASKALTLVDPKSSAYMQLSSITSEDSAVYYCARYDYI-----gssyfydwgqGITVTVSSdieltqtplslpvsldqasiscrsssqsvhsngntylewylqkpgqspklliykvsnrfgsvpdrfsgs</p> <p>-----vss  sgtdftlkisrveadlgvyycfqgshvpytfgggtkleikr---</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=1.89 (Å)  vqlqqsGAEVAKPCAIVKLSCKISgyTftsYWHVVKQRGRGLWIGRIDpNSGTKNEKFAASKALTLVDPKSSAYMQLSSITSEDSAVYYCARYdygssyfydwgqGITVTVSSDIELTQVTVSSdieltqtplslpvsldqasiscrsssqsvhsngntylewylqkpgqspklliykvsnrfgsvpdrfsgs</p> <p>GGGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS  SGSGG---TDFTLKISRVEADLGYYCFQgshvpytfgggtkleikr</p>
439	<p>IsjvA (102)</p> <hr/> <p>Iri8A (124)</p>	C	67.65	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.76 (Å)  -----G-GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  vqlvesgGGSVQAGGSLRLSCAVsgykDRnYCMGWFRAPGKEREgVAVIDSSRTAYADSVKGRFTISRDLDTAYLQMNLSKPEDTAMYYCAAGWSS-----lgscgtnrnrnywgggtqvtvss</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=16.27 (Å)  g-----GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  -vqlvesgGGSVQAGGSLRLSCAVsgykDRnYCMGWFRAPGKEREgVAVIDSSRTAYADSVKGRFTISRDLDTAYLQMNLSKPEDTAMYYCAAGWSSlgscgtnrnrnywgggtqvtvss</p> <p><b>BLAST:</b> aliSize=85 (resi) iden=72.55% (74/102) simi=83.33% (85/102)  -----G-GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  vqlvesgGGSVQAGGSLRLSCAVsgykDRnYCMGWFRAPGKEREgVAVIDSSRTAYADSVKGRFTISRDLDTAYLQMNLSKPEDTAMYYCAAGWSSlgscgtnrnrnywgggtqvtvss</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.35 (Å)  g-----GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  -vqlvesgGGSVQAGGSLRLSCAVsgykDRnYCMGWFRAPGKEREgVAVIDSSRTAYADSVKGRFTISRDLDTAYLQMNLSKPEDTAMYYCAAGWSSlgscgtnrnrnywgggtqvtvss</p>
440	<p>IsjvA (102)</p> <hr/> <p>It2jA (116)</p>	C	62.75	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=1.32 (Å)  -----G-GGLVQAGESLKLSCAA---S---GGFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  qvqlqesgGGLVQPGSLRLSCAAsgftfsNSASVVRQAPGKGLEWSSISGSGNTYSASVVKGRFTISRDNAKNSLYLQMNLSRAEDTAVYYCARD-----wygmdvwggtvtvss</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=16.79 (Å)  g-----GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  -qvqlqesgGGLVQPGSLRLSCAAsgftfsNSASVVRQAPGKGLEWSSISGSGNTYSASVVKGRFTISRDNAKNSLYLQMNLSRAEDTAVYYCARDwygmdvwggtvtvss</p> <p><b>BLAST:</b> aliSize=77 (resi) iden=66.67% (68/102) simi=75.49% (77/102)  -----G-GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  qvqlqesgGGLVQPGSLRLSCAAsgftfsNSASVVRQAPGKGLEWSSISGSGNTYSASVVKGRFTISRDNAKNSLYLQMNLSRAEDTAVYYCARDwygmdvwggtvtvss</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.54 (Å)  -----G-GGLVQAGESLKLSCAA---S---GFMGYRQAPGKQRELVAATNSRRIINADYFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGGTQVTVSS-----  qvqlqesgGGLVQPGSLRLSCAAsgftfsNSASVVRQAPGKGLEWSSISGSGNTYSASVVKGRFTISRDNAKNSLYLQMNLSRAEDTAVYYCARDwygmdvwggtvtvss</p>

441	<p>lsjvA (102)</p> <hr/> <p>luacH (114)</p>	C	41.18	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=1.73 (Å)  -----G-GGLVQAGESLKLSCAA----S--GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS ywgqgtqvtvss-----  dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDYWSWIRKFFGNRL EYMGYVSSFFSIFNPSLKSRISTRDTSKNQYLLDLNSVTTEDTATYYCANWD-----gd ywgqgtlvtvsaa</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=2.43 (Å)  ggg-----LVQAGESLKLSCAASGF----MGVYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----thyfrs ywgqgtqvtvss  ---dvqlqesgpsLVKPSQTLSTTCSVTDSittSDYWSWIRKFFGNRL EYMGYVSSFFSIFNPSLKSRISTRDTSKNQYLLDLNSVTTEDTATYYCANWDgd ywgqgtlvtvsaa-----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=42.16% (43/102) simi=63.73% (65/102)  -----GGGLVQAGESLKLSCAASG----FMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS YWGQGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTDSittSDYWSWIRKFFGNRL EYMGYVSSFFSIFNPSLKSRISTRDTSKNQYLLDLNSVTTEDTATYYC-A NWDGDYWGQGT LVTVSAa</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.56 (Å)  g-----GGLVQAGESLKLSCAA----S--GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYT-hyFRSYWGQGTQVTVSS-  -dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDYWSWIRKFFGNRL EYMGYVSSFFSIFNPSLKSRISTRDTSKNQYLLDLNSVTTEDTATYYCANw--DGDYWGQGT LVTVSAa</p>
442	<p>lsjvA (102)</p> <hr/> <p>lwt5A (115)</p>	C	38.24	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.73 (Å)  -----GGGLVQAGESLKLSCAA----S--GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS ywgqgtqvtvss-----  qvqlvqsGAEVKPPASVVKVSKASgyTftSYWHVVRQAPGQGLEWWMGN YpGSGGNYAEKFNRRVIMTRDTSISTAYMELSR LRSDDTAVYYCARSGGP-----yffdywgqgtlvt</p> <p><b>SARST:</b> aliSize=96 (resi) RMSD=11.88 (Å)  gg-----GLVQAGESLKLSCAASG----GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTH---YFRSYWGQGTQV-tvss  --qvqlvqsGAEVKPPASVVKVSKASgyTftSYWHVVRQAPGQGLEWWMGN YpGSGGNYAEKFNRRVIMTRDTSISTAYMELSR LRSDDTAVYYCARSGgpYFFDYWGQGT LVT---</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=48.04% (49/102) simi=62.75% (64/102)  -----GGGLVQAGESLKLSCAASG----FMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTH---YFRSYWGQGTQVtvss  qvqlvqsGAEVKPPASVVKVSKASgyTftSYWHVVRQAPGQGLEWWMGN YpGSGGNYAEKFNRRVIMTRDTSISTAYMELSR LRSDDTAVYYCARSGgpYFFDYWGQGT LVT---</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.71 (Å)  -----GGGLVQAGESLKLSCAA----S--GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGQGTQVTVSS  qvqlvqsGAEVKPPASVVKVSKASgyTftSYWHVVRQAPGQGLEWWMGN YpGSGGNYAEKFNRRVIMTRDTSISTAYMELSR LRSDDTAVYYCARSGg-PYFFDYWGQGT LVT</p>
443	<p>lsjvA (102)</p> <hr/> <p>lxfpA (131)</p>	C	61.76	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.69 (Å)  -----G-GGLVQAGESLKLSCAA----S--GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS ywgqgtqvtvss-----  vqlqasgGGSVQAGSLRLSCAASgytiGPYCMGWFRQAPGKERE GVAAINSGGISTYADSVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCAADSTIY-----asyecghl stgggydswgqgtqvtvs</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=14.63 (Å)  g-----GGLVQAGESLKLSCAASG----FMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS-----YWGQGTQVTV-ss  -vqlqasgGGSVQAGSLRLSCAASgytiGPYCMGWFRQAPGKERE GVAAINSGGISTYADSVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCAADSTIYasyecghl stgggydSWGQGTQVTV-ss</p> <p><b>BLAST:</b> aliSize=86 (resi) iden=78.43% (80/102) simi=84.31% (86/102)  -----GGGLVQAGESLKLSCAASG----FMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----YTHYFR-----SY-----WGQGTQVTV-ss  vqlqasGGSVQAGSLRLSCAASgytiGPYCMGWFRQAPGKERE GVAAINSGGISTYADSVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCAADSTIYASYEEcghl stgggydSWGQGTQVTV-ss</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.45 (Å)  g-----GGLVQAGESLKLSCAA----S--GGFMGYRQAPGKQRELVAITIN-SRRIITNYADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RSYWGQGTQVTVSS  -vqlqasgGGSVQAGSLRLSCAASgytiGPYCMGWFRQAPGKERE GVAAINSGGISTYADSVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCAADSTIYASYEEcghl stgggydSWGQGTQVTVSS</p>

444	<p>IsjvA (102)</p> <hr/> <p>IzmyA (132)</p>	C	69.61	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.90 (Å)  -----GGLVQAGESLKLSCAA-----SGGFMGWYRQAPGKQRELVAITIN-SRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS ywgggtqvtvss-----  vqlvesGGGSVQAGSLRLSCTASgytiGPYCMGWFRQAPGGEREAVAAINMGGITTYADSVKGRFTISRDNAKNTVTLQMSLKPEDTAMYCAAADSTIY-----asyyecghglstgggydswgggtqvtvss</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=4.26 (Å)  g-----GGLVQAGESLKLSCAAS---GTF--MGWYRQAPGKQRELVAITINS-RGITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTH-----yfrsywgggtqvtvss  -vqlvesgGGSVQAGSLRLSCTASgytiGPYCMGWFRQAPGGEREAVAAINMGGITTYADSVKGRFTISRDNAKNTVTLQMSLKPEDTAMYCAAADSTIYASYEecghglstgggydswgggtqvtvss-----</p> <p><b>BLAST:</b> aliSize=85 (resi) iden=76.47% (78/102) simi=83.33% (85/102)  -----GGLVQAGESLKLSCAASC-----GFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYC-----YTHYFR-----SY----WGGGTQVTVSS  vqlvesGGGSVQAGSLRLSCTASgytiGPYCMGWFRQAPGGEREAVAAINMGGITTYADSVKGRFTISRDNAKNTVTLQMSLKPEDTAMYCAAADSTIYASYEecghglstgggydswgggtqvtvss</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.43 (Å)  g-----GGLVQAGESLKLSCAA-----SGGFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RS-YWGGGTQVTVSS  -vqlvesgGGSVQAGSLRLSCTASgytiGPYCMGWFRQAPGGEREAVAAINMGGITTYADSVKGRFTISRDNAKNTVTLQMSLKPEDTAMYCAAADSTIYASYEecghglstgggydswgggtqvtvss</p>
445	<p>IsjvA (102)</p> <hr/> <p>Izv5A (119)</p>	C	69.61	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.67 (Å)  -----G-GGLVQAGESLKLSCAA---SG--GFMGWYRQAPGKQRELVAITINSRGIITNY-ADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS ywgggtqvtvss-----  vqlvesgGGSVQAGESLRLSCAASgyTYknYCIIGWFRQAPGKDRGAVVFINSDGITYADSVKGRFTISRDNAKNTVYLQMSLKPEDTASYCAAGYR-----nyggcatrywgggtqvtvss</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=14.69 (Å)  gg-----GGLVQAGESLKLSCAAS---AASGGF--MGWYRQAPGKQRELVAITINSRGIITNY-ADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHY-----FRSYWGGGTQVTVS--ss  --vqlvesggGGSVQAGESLRLSCAASgyTYknYcIGWFRQAPGKDRGAVVFINSDGITYADSVKGRFTISRDNAKNTVYLQMSLKPEDTASYCAAGYRnyggcATR YWGGGTQVTVS--</p> <p><b>BLAST:</b> aliSize=87 (resi) iden=76.47% (78/102) simi=85.29% (87/102)  -----GGLVQAGESLKLSCAASC-----GFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYC-----YTHYFR---SYWGGGTQVTVSS  vqlvesGGGSVQAGESLRLSCAASgyTYknYcIGWFRQAPGKDRGAVVFINSDGITYADSVKGRFTISRDNAKNTVYLQMSLKPEDTASYCAAGYRNYGQcatRYWGGGTQVTVS--</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.54 (Å)  -----G-GGLVQAGESLKLSCAA---SG--GFMGWYRQAPGKQRELVAITINSRGIITNY-ADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RS-YWGGGTQVTVSS  vqlvesgGGSVQAGESLRLSCAASgyTYknYcIGWFRQAPGKDRGAVVFINSDGITYADSVKGRFTISRDNAKNTVYLQMSLKPEDTASYCAAGYRnyggcATR YWGGGTQVTVS--</p>
446	<p>IsjvA (102)</p> <hr/> <p>IzvhA (124)</p>	C	64.71	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.45 (Å)  -----G-GGLVQAGESLKLSCAA---S-GGFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS ywgggtqvtvss-----  dvqlvesgGGSVQAGSLRLSCAASgyiAsINYLGWFRQAPGKEREAVAVSPAGGTPYADSVKGRFTVSLDNAENTVYLLQMSLKPEDTALYYCAAARQG-----wyiplnsygn ywgggtqvtvss</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=14.47 (Å)  g-----GGLVQAGESLKLSCAAS-----GGFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RSYWGGGTQVTVS--ss  -dvqlvesgGGSVQAGSLRLSCAASgyiAsINYLGWFRQAPGKEREAVAVSPAGGTPYADSVKGRFTVSLDNAENTVYLLQMSLKPEDTALYYCAAARQgwyiplnsygn YWGGGTQVTVS--</p> <p><b>BLAST:</b> aliSize=85 (resi) iden=70.59% (72/102) simi=83.33% (85/102)  -----GGLVQAGESLKLSCAASC-----GFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYC-----Y---THYFRSYWGGGTQVTVSS  dvqlvesGGGSVQAGSLRLSCAASgyiAsINYLGWFRQAPGKEREAVAVSPAGGTPYADSVKGRFTVSLDNAENTVYLLQMSLKPEDTALYYCAAARQgwyiplnsygn YWGGGTQVTVS--</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.22 (Å)  g-----GGLVQAGESLKLSCAA---S-GGFMGWYRQAPGKQRELVAITINSRGIITNYADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYF-----RS-YWGGGTQVTVSS  -dvqlvesgGGSVQAGSLRLSCAASgyiAsINYLGWFRQAPGKEREAVAVSPAGGTPYADSVKGRFTVSLDNAENTVYLLQMSLKPEDTALYYCAAARQgwyiplnsygn YWGGGTQVTVS--</p>

447	<p>1sjvA (102)</p> <hr/> <p>1zvyA (125)</p>	C	52.94	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.45 (Å)  -----G-GGLVQAGEESLKLSCAA-----GGFNGWYRQAPGKQRELVAITIN-SRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRSsywgggtqvtvss-----  dvqlvesgGGSVOAGGSLRLSCAASgsstdsIEYNTWFRQAPGKAREGVAALYtHTGNTYITDSVKGRFTISQKAKNMAYLRMDSVKS EDTAIYTCGATRKYVpvrfaIdqssydywgggtqvtv</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=12.78 (Å)  g-----GGLVQAGEESLKLSCAAS-----GGFNGWYRQAPGKQRELVAITINSRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS-----YWGQGTQVTI--vss  -vqlvesgGGSVOAGGSLRLSCAASgsstdsIEYNTWFRQAPGKAREGVAALYTHtGNTYITDSVKGRFTISQKAKNMAYLRMDSVKS EDTAIYTCGATRKYVpvrfaIdqssydywgggtqvtv---</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=63.73% (65/102) simi=74.51% (76/102)  -----GGGLVQAGEESLKLSCAASG-----FMGWYRQAPGKQRELVAITINSRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS---R-----SYWGQGTQVTI--ss  vqlvesGGSVOAGGSLRLSCAASGstsdieYNTWFRQAPGKAREGVAALYTHtGNTYITDSVKGRFTISQKAKNMAYLRMDSVKS EDTAIYTCGATRKYVpvrfaIdqssydywgggtqvtv---</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.41 (Å)  g-----GGLVQAGEESLKLSCAA-----GGFNGWYRQAPGKQRELVAITIN-SRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS-----YWGQGTQVTI--SS  -dvqlvesgGGSVOAGGSLRLSCAASgsstdsIEYNTWFRQAPGKAREGVAALYtHTGNTYITDSVKGRFTISQKAKNMAYLRMDSVKS EDTAIYTCGATR-KYvprfaIdqssyDYWGQGTQVTI</p>
448	<p>1sjvA (102)</p> <hr/> <p>2bseD (122)</p>	C	64.71	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.66 (Å)  -----GGGLVQAGEESLKLSCAA---S---GFMGWYRQAPGKQRELVAITIN-SRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRSsywgggtqvtvss-----  vqlqesGGGLVQAGGSLRLSCTASrRtgsnWCMGWFRQLAGKEPELVVALNfdYDMTYADSVKGRFTVSRD SGKNTVYLQMSLKPEDTAIYYCAARSG-----gfssnrelydgwgggtqvtvss</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=14.67 (Å)  g-----GGLVQAGEESLKLSCAASG-----GFMGWYRQAPGKQRELVAITIN-SRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS-----YWGQGTQVTI--ss  -vqlqesgGGLVQAGGSLRLSCTASrRtgsnWCMGWFRQLAGKEPELVVALNfdYDMTYADSVKGRFTVSRD SGKNTVYLQMSLKPEDTAIYYCAARSGGfssnrelydGWGQGTQVTI--ss--</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=69.61% (71/102) simi=79.41% (81/102)  -----GGGLVQAGEESLKLSCAAS---G---FMGWYRQAPGKQRELVAITIN-SRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS---Y---WGQGTQVTI--SS  vqlqesGGGLVQAGGSLRLSCTASrrtgsnWCMGWFRQLAGKEPELVVALNfdYDMTYADSVKGRFTVSRD SGKNTVYLQMSLKPEDTAIYYCAARSGGfssnrelydGWGQGTQVTI--SS</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.47 (Å)  g-----GGLVQAGEESLKLSCAA---S---GFMGWYRQAPGKQRELVAITIN-SRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS-----RS-YWGQGTQVTI--SS  -vqlqesgGGLVQAGGSLRLSCTASrRtgsnWCMGWFRQLAGKEPELVVALNfdYDMTYADSVKGRFTVSRD SGKNTVYLQMSLKPEDTAIYYCAARSGGfssnreLYdGWGQGTQVTI--SS</p>
449	<p>1sjvA (102)</p> <hr/> <p>2dqhH (114)</p>	C	39.22	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.99 (Å)  -----G-GGLVQAGESLKLSCAA-----S---GGFMGWYRQAPGKQRELVAITINSRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRSsywgggtqvtvss-----  dvqlqesgPSSLVKPQSQTLSITCSVTgdsitSDfWSWIRKFFGNRLIYMGYVYSYSSTIYNPSLKSRIISITRDTSKNQYLDLNSVTTEDTATYYCANWDG-----dywgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.19 (Å)  ggg-----LVQAGESLKLSCAASG---GF---MGWYRQAPGKQRELVAITINSRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRS-----YWGQGTQVTI--ss  ---dvqlqesgpsLVKPSQTLSTITCSVTGDSitdfWSWIRKFFGNRLIYMGYVYSYSSTIYNPSLKSRIISITRDTSKNQYLDLNSVTTEDTATY-----YCANwdgdYWGQGTQVTI--ssaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=42.16% (43/102) simi=62.75% (64/102)  -----GGGLVQAGESLKLSCAASG-----FMGWYRQAPGKQRELVAITINSRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRSYWGQGTQVTI--SS  dvqlqesgPSSLVKPQSQTLSITCSVTGDSitdfWSWIRKFFGNRLIYMGYVYSYSSTIYNPSLKSRIISITRDTSKNQYLDLNSVTTEDTATYYCANWDGDYWGQGTQVTI--SSAa</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.60 (Å)  -----GGGLVQAGESLKLSCAA---S---GGFMGWYRQAPGKQRELVAITINSRGIITNADFVKGRFTISRDNAKKTVYLEMNSLEPEDTAVVYCYTHYFRSYWGQGTQVTI--SS  dvqlqesgPSSLVKPQSQTLSITCSVTgdsitSDfWSWIRKFFGNRLIYMGYVYSYSSTIYNPSLKSRIISITRDTSKNQYLDLNSVTTEDTATYYCANW-DGDYWGQGTQVTI--SSAa</p>

450	<p>1sjvA (102)</p> <hr/> <p>2dqdH (114)</p>	C	40.20	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.99 (Å)  -----G-GGLVQAGESKLSIAA---S--GGFMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRsywgqgtqvtvss-----  dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDYWSWIRKFFGNRLIYMGFVYSYSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDG-----dywgqgtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.17 (Å)  ggg-----LVQAGESKLSIAASGF----MGVYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRS----YWGQGTQVTVS--s  ---dvqlqesgpsLVKPSQTLSTTCSVTDSittSDYWSWIRKFFGNRLIYMGFVYSYSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATY-----YCANwdgdYWGQGTQVTVSaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESKLSIAASG----FMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRSYWGQGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTDSittSDYWSWIRKFFGNRLIYMGFVYSYSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDG--YWGQGTQVTVSAA</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.56 (Å)  g-----GGLVQAGESKLSIAA---S--GGFMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYT-hyFRSYWGQGTQVTVSS-  -dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDYWSWIRKFFGNRLIYMGFVYSYSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--DGDYWGQGTQVTVSAA</p>
451	<p>1sjvA (102)</p> <hr/> <p>2dqeH (114)</p>	C	38.24	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.99 (Å)  -----G-GGLVQAGESKLSIAA---S--GGFMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRsywgqgtqvtvss-----  dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDYWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDG-----dywgqgtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.17 (Å)  ggg-----LVQAGESKLSIAASGF----MGVYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRS----YWGQGTQVTVS--s  ---dvqlqesgpsLVKPSQTLSTTCSVTDSittSDYWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATY-----YCANwdgdYWGQGTQVTVSaa-</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=41.18% (42/102) simi=63.73% (65/102)  -----GGLVQAGESKLSIAASG----FMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRSYWGQGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTDSittSDYWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDG--YWGQGTQVTVSAA</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.61 (Å)  -----GGLVQaGESKLSIAA---S--GGFMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYT-hyFRSYWGQGTQVTVSS-  dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDYWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--DGDYWGQGTQVTVSAA</p>
452	<p>1sjvA (102)</p> <hr/> <p>2dqfB (114)</p>	C	40.20	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.99 (Å)  -----G-GGLVQAGESKLSIAA---S--GGFMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYT-HYFRsywgqgtqvtvss-----  dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDAWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANwDGD-----ywqgtlvtvsaa</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=16.72 (Å)  ggg-----LVQAGESKLSIAASGF----GFMGYRQAFGKQRELVAITNS-----RGitnyadvkgrftisrdnakkTVLEMNPLEPDTAVVYCYthyFRS----YWGQGTQVTV---ss  ---dvqlqesgpsLVKPSQTLSTTCSVTDSittSDAWSWIRKFFGNRLIYMGVVSASgstynpslksrisitrdtsKN-----QYLDLNSVTTEDTATY-----CANwdgdYWGQGTQVTVSaa--</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=41.18% (42/102) simi=63.73% (65/102)  -----GGLVQAGESKLSIAASGFM----GMYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYTHYFRSYWGQGTQVTVSS-  dvqlqesGPSLVKPSQTLSTTCSVTDSittSDAWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWDG--YWGQGTQVTVSAA</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.56 (Å)  g-----GGLVQAGESKLSIAA---S--GGFMGYRQAFGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNPLEPDTAVVYCYT-hyFRSYWGQGTQVTVSS-  -dvqlqesgPSLVKPSQTLSTTCSVTgdSittSDAWSWIRKFFGNRLIYMGVVSASSTYNNPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--DGDYWGQGTQVTVSAA</p>

453	<p>1sjvA (102)</p> <hr/> <p>2dqgH (114)</p>	C	41.18	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.99 (Å)  -----G-GGLVQAGESLKLSCAA---S--GGFMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYTHYFRsywgggtqvtvss-----  dvqlqesgPslVKPSQTLSTTCsvTgdSItSDYWSWIRKFFGNRLIYMGYVSFSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWGDG-----dywgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.20 (Å)  ggg-----LVQAGESLKLSCAASGF----MGVYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYcythyFRS----YWGQGIQVTVS--s  ---dvqlqesgpsLVKPSQTLSTTCsvTDSItSDYWSWIRKFFGNRLIYMGYVSFSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYY-----CANWdgdYWGQGITVTVSaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESLKLSCAASG----FMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYTHYFRSYWGQGIQVTVSS-  dvqlqesgPslVKPSQTLSTTCsvTDSItSDYWSWIRKFFGNRLIYMGYVSFSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYC-ANWGDGYWGQGITVTVSAA</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.69 (Å)  -----GGLVQAGESLKLSCAA---S--GGFMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYT-hyFRSYWGQGIQVTVSS-  dvqlqesgPslVKPSQTLSTTCsvTgdSItSDYWSWIRKFFGNRLIYMGYVSFSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw--DGDYWGQGITVTVSaa</p>
454	<p>1sjvA (102)</p> <hr/> <p>2dqhH (114)</p>	C	38.24	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=2.02 (Å)  -----G-GGLVQAGESLKLSCAA---S--GGFMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYT-HYFRsywgggtqvtvss-----  dvqlqesgPslVKPSQTLSTTCsvTgdSItSDYWSWIRKFFGNRLIYMGYVSYSSTAINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANwDGD-----ywgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.17 (Å)  ggg-----LVQAGESLKLSCAASGF----MGVYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYcythyFRS----YWGQGIQVTVS--s  ---dvqlqesgpsLVKPSQTLSTTCsvTDSItSDYWSWIRKFFGNRLIYMGYVSYSSTAINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYY-----CANWdgdYWGQGITVTVSaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESLKLSCAASG----FMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYTHYFRSYWGQGIQVTVSS-  dvqlqesgPslVKPSQTLSTTCsvTDSItSDYWSWIRKFFGNRLIYMGYVSYSSTAINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYC-ANWGDGYWGQGITVTVSAA</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.62 (Å)  -----GGLVQaGESLKLSCAA---S--GGFMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYT-hyFRSYWGQGIQVTVSS-  dvqlqesgPslVKP-SQTLSTTCsvTgdSItSDYWSWIRKFFGNRLIYMGYVSYSSTAINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw-DGDYWGQGITVTVSAA</p>
455	<p>1sjvA (102)</p> <hr/> <p>2dqjH (114)</p>	C	38.24	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.98 (Å)  -----G-GGLVQAGESLKLSCAA---S--GGFMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYTHYFRsywgggtqvtvss-----  dvqlqesgPslVKPSQTLSTTCsvTgdSItSDYWSWIRKFFGNRLIYMGYVSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANWGDG-----dywgggtlvtvsaa</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.18 (Å)  ggg-----LVQAGESLKLSCAASGF----MGVYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVYcythyFRS----YWGQGIQVTVS--s  ---dvqlqesgpsLVKPSQTLSTTCsvTDSItSDYWSWIRKFFGNRLIYMGYVSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYY-----YCANWdgdYWGQGITVTVSaa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=41.18% (42/102) simi=62.75% (64/102)  -----GGLVQAGESLKLSCAASG----FMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYTHYFRSYWGQGIQVTVSS-  dvqlqesgPslVKPSQTLSTTCsvTDSItSDYWSWIRKFFGNRLIYMGYVSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYC-ANWGDGYWGQGITVTVSAA</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.60 (Å)  -----GGLVQaGESLKLSCAA---S--GGFMGYRQAFPGKQRELVAITNSRITINADLVKGRFTSRDPAKKTIVLEMNLSLEPEDTAVVYCYT-hyFRSYWGQGIQVTVSS-  dvqlqesgPslVKP-SQTLSTTCsvTgdSItSDYWSWIRKFFGNRLIYMGYVSYSSTYINPSLKSRISTRDTSKNQYLDLNSVTTEDTATYYCANw-DGDYWGQGITVTVSAA</p>



456	<p>lsjvA (102)</p> <hr/> <p>2yssB (113)</p>	C	41.18	<p><b>TM-align:</b> aliSize=88 (resi) RMSD=1.98 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRsywggtqvtvss-----  qvqlqeSgPGLMKPSETLSITCSVsgdsiRSDYWSIRKPKGLEIYGYVSYSTYNNPSLKSRTLSVDTSKNRFSLKLSVTAADTAVYYCARWDG-----dywgqgilvtvss</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=16.18 (Å)  ggg-----LVQAGESLKLSCAA-----AASG---GFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRS----YWGQGTQVTVSS-s  ---qvqlqesgpgLMPSETLSITCSVsgdsiRSDYWSIRKPKGLEIYGYVSYSTYNNPSLKSRTLSVDTSKNRFSLKLSVTAADTAVYY-----YCARwdgdYWGQILVTVSS-</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=44.12% (45/102) simi=59.80% (61/102)  -----GGLVQAGESLKLSCAA-----FMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGQGTQVTVSS  qvqlqesGGLVQAGESLKLSCAA-----FMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYWGQGTQVTVSS</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.71 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYT-hyFRSYWGQGTQVTVSS  qvqlqeSgPGLMKPSETLSITCSVsgdsiRSDYWSIRKPKGLEIYGYVSYSTYNNPSLKSRTLSVDTSKNRFSLKLSVTAADTAVYYCARw--DGDYWGQILVTVSS</p>
457	<p>lsjvA (102)</p> <hr/> <p>3cx5J (127)</p>	C	45.10	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=2.02 (Å)  -----G-GGLVQAGESLKLSCAA-----SGGFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFRSYwggtqvtvss-----  evklqeSgAGLVQPSQSLSTCSVtgysitSGYYWNWIRLFPGNKLEWGYISNVGDNNYNSPKDRLSITRDTSKNQFFLKLNSVTTEDTATYYCARSEYY-----vtgyamywggttvtvssawrhp</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=2.00 (Å)  ggg-----LVQAGESLKLSCAA-----ASGFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYTHYFR-----sywggtqvtvss  ---evklqesgagLVQPSQSLSTCSVtgysitSGYYWNWIRLFPGNKLEWGYISNVGDNNYNSPKDRLSITRDTSKNQFFLKLNSVTTEDTATYYCARSEYYsvtgyamywggttvtvssawrhp-----</p> <p><b>BLAST:</b> aliSize=67 (resi) iden=50.00% (51/102) simi=65.69% (67/102)  -----GGLVQAGESLKLSCAA-----GFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCY-----Y--THYFRSYWGQGTQVTVSS  evklqesGAGLVQPSQSLSTCSVtgysitSGYYWNWIRLFPGNKLEWGYISNVGDNNYNSPKDRLSITRDTSKNQFFLKLNSVTTEDTATYYCARseyYsvtgyamywggttvtvssawrhp</p> <p><b>Proposed:</b> aliSize=101 (resi) RMSD=1.61 (Å)  g-----GGLVQAGESLKLSCAA-----SGGFMGYRQAPGKQRELVAITNSRITINADFKGRFTISRDNAKKTVYLEMNSLEPEDTAVYYCYT----HYF-RSY-WGQGTQVTVSS  -evklqesgAGLVQPSQSLSTCSVtgysitSGYYWNWIRLFPGNKLEWGYISNVGDNNYNSPKDRLSITRDTSKNQFFLKLNSVTTEDTATYYCARseyYsvtgyamywggttvtvssawrhp</p>
458	<p>lsndA (129)</p> <hr/> <p>lnsnS (138)</p>	C	99.22	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=1.66 (Å)  ---HKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYTH-----EQhlrkseaqakkeklniws-----  tkkHKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYVYkpnntHEQhlrkseaqakkeklniws-----</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=9.35 (Å)  l----HKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYT-----HEQHLRKSEAQAKKEKLNl--ws  -tkklHKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAKKEKLNlws--</p> <p><b>BLAST:</b> aliSize=129 (resi) iden=100.00% (129/129) simi=100.00% (129/129)  ---HKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAY-----THEQHLRKSEAQAKKEKLNlWS  tkkHKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAKKEKLNlWS</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=1.07 (Å)  ---HKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYT-----HEQHLRKSEAQAKKEKLNlWS  tkkHKEPATL IKAIDGDTVKLMYKGQPMFRLLVDTPETKHPKKGVEKYGPEASAFKKMVENAKKIEVEFDKGQRTDKYGRGLAYIADGKMVNEALVROGLAKVAYVYkpnntHEQHLRKSEAQAKKEKLNlWS</p>

459	<p><b>ItiyA (157)</b></p> <hr/> <p><b>2a8nA (130)</b></p>	C	30.00	<p><b>TM-align:</b> aliSize=109 (resi) RMSD=1.92 (Å)        -NHETFLKRAVTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTdaaeafDDSFf---YKe-I dkaeertipfyqvtltehlsfqawrnfankeyl-----L-----        aERTHEMELALVEARSAGERD-EVIGAVLMLDRVILARSGNRTRELNDVTAHAETIAVIRMAEALQOERIPGADLVYTLLEPCtMAAAISFARIRRLYGAQDP-----KGG--avesGv-rF-----fsqptchhapdvysg</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=1.11 (Å)        n--HETFLKRAVTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHT-----htdaaeagfddsfiykeidkaeertipfyqvtltehlsfqawrnfankeyl        -acERTHEMELALVEARSAGERD-EVIGAVLMLDRVILARSGNRTRELNDVTAHAETIAVIRMAEALQOERIPGADLVYTLLEPCtMAAAISFARIRRLYGAQDPkkgavesvrrffsqptchhapdvysg-----</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=30.00% (39/130) simi=39.23% (51/130)        nhetflkravtlacegvnagigg-----FGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHT--DAAEAG-----fddsfiykeidkaeertipfyqvtltehlsfqawrnfankeyl        -----aerthfmealvearsagerdevFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHT--DAAEAG-----fddsfiykeidkaeertipfyqvtltehlsfqawrnfankeyl        -----</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=1.53 (Å)        MNHETFLKRAVTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTdaaeafDDSFf---YKEIdK-PAEertIPFYO-----vtltehlsfqawrnfankeyl        AERTHEMELALVEARSAGERD-EVIGAVLMLDRVILARSGNRTRELNDVTAHAETIAVIRMAEALQOERIPGADLVYTLLEPCtMAAAISFARIRRLYGAQDP-----PKGGaveSGVR-FfSQP---TCHhapdvysg-----</p>
460	<p><b>ItiyA (157)</b></p> <hr/> <p><b>2b3jD (150)</b></p>	C	29.33	<p><b>TM-align:</b> aliSize=109 (resi) RMSD=2.05 (Å)        -NHETFLKRAVTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTdaaeafDDSFf---YKe-I dkaeertipfyqvtltehlsnfqawrnfankeyl-----        -NDIYMTLAIEEKAAQL-LGEVIGAITKDEVLARAHNLRLELQOPTAHAEHIAERAAKVLGWSWREGTLVYTLLEPCVMCAITVMSIPRIVYGADDP-----KGGC--sgsLM-nL-----lqsnfnhrai vdkgvlkeacstlltffk</p> <p>nrank</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=3.36 (Å)        n--HETFLKRAVTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAG-----fddsfiykeidkaeertipfyqvtltehlsnfqawrnfankeyl        -ndiymTLAIEEKAAQL-LGEVIGAITKDEVLARAHNLRLELQOPTAHAEHIAERAAKVLGWSWREGTLVYTLLEPCVMCAITVMSIPRIVYGADDPKGGCSGslmnlqsnfnhrai vdkgvlkeacstlltffklnrank-----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=28.67% (43/150) simi=36.67% (55/150)        nhetflkra-----VTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHT-----htdaaeagfddsfiykeidkaeertipfyqvtltehlsnfqawrnfankeyl        -----ndiymTLAIEEKAAQL-LGEVIGAITKDEVLARAHNLRLELQOPTAHAEHIAERAAKVLGWSWREGTLVYTLLEPCVMCAITVMSIPRIVYGADDPKGGCSGslmnlqsnfnhrai vdkgvlkeacstlltffklnrank-----</p> <p>vtltehlsnfqawrnfankeyl</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=1.71 (Å)        m--HETFLKRAVTLACEGVNAGIGGFGAVIVKDGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-DDCI IYTSCEPC-P-CLGAIYWARPKAVFYAAEHT-----tdaeafddsfiykeIdkP-AEER-T-IPFYOVTLTEHLSPFQAWRNFA-NKK---eyl        -NDIYMTLAIEEKAAQL-LGEVIGAITKDEVLARAHNLRLELQOPTAHAEHIAERAAKVLGWSWREGTLVYTLLEPCVMCAITVMSIPRIVYGADDPKGGCSGsl-----M--NlQSNfnHRAI vdkgvlkeacstlltffklnrank-----</p>
461	<p><b>ItiyA (157)</b></p> <hr/> <p><b>2g84B (182)</b></p>	C	27.39	<p><b>TM-align:</b> aliSize=116 (resi) RMSD=1.36 (Å)        -----NHETFLKRAVTLACEGVNAGIGGFGAVIVK--DGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-ID----DII IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAGfDDSFfYkeIdKnaeertipfyqvtltehlsnfqawrnfankeyl-----        ghmdalhighlppflvqanneprvlaAPARMGYVLEVRANIA-D-GGPFAAVFErdSGLLAACTNRVPGRCSSAAHAEILALSQAQKIDTHDIsadglpAEIVTSAEPVmcFGAVISGVRSLVCAARSDVEAIGFDEG-PR--PE-----n</p> <p>wmggleargitvtgllrdaacallreynac</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=4.16 (Å)        n--HETFLKRAVTLACEGVNAGIGGFGAVIVK--DGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-ID----DII IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAGfDD-----SFIYKEID-----kpaeer        -ghmdalhighlppflvqanneprvlaAPARMGYVLEVRANIA-D-GGPFAAVFErdSGLLAACTNRVPGRCSSAAHAEILALSQAQKIDTHDIsadglpAEIVTSAEPVmcFGAVISGVRSLVCAARSDVEAIGFDEgprpenWGGLEARGitvtgllrdaacallreynac-----</p> <p>tipfyqvtltehlsnfqawrnfankeyl</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=23.23% (36/157) simi=30.97% (48/157)        nhetflkravtlacegvn-----ghmdalhighlppflvqanneprvlaapearmgyvlelvraniAGIRGPEGAVIVK--DGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-ID----DII IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAGfDD-----KACKvlgaylddci IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAGfDD-----SFIYKEIDKPAE--ERTIPFYOVTLTEHLSPFQAWRNFA-N        -----ghmdalhighlppflvqanneprvlaapearmgyvlelvraniAGIRGPEGAVIVK--DGAI AEGONNVITTSNDPTAHAEVTAIRKACKVLGAYO-ID----DII IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAGfDD-----KACKvlgaylddci IYTSCEPC-P-CLGAIYWARPKAVFYAAEHTDAAEAGfDD-----SFIYKEIDKPAE--ERTIPFYOVTLTEHLSPFQAWRNFA-N        -----sfiykeidkaeertipfyqvtltehlsnfqawrnfankeyl</p> <p>vtvtgllrdaacallreynac</p> <p><b>Proposed:</b> aliSize=144 (resi) RMSD=1.59 (Å)        ghmdalhighlppflvqanneprvlaAPARMGYVLEVRANIA-D-GGPFAAVFErdSGLLAACTNRVPGRCSSAAHAEILALSQAQKIDTHDIsadglpAEIVTSAEPVmcFGAVISGVRSLVCAARSDVEAIGFDEgpr-----PENWmgLEARGITVTTGL-LRDAACALLREYNAC        kkeyl</p>

462	<p><b>ItiyA (157)</b></p> <p><b>2hvvA (143)</b></p>	C	18.88	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=2.74 (Å)  --NHETFLKRAVTLACEGVnagIG--GPFAGAVIKVDGAELEONNV---TTS-----N-----DPTAHAEVTAIRKACVLAyQLDDCIIYTSCEPCP-LGAIYWARPKAVFAAEHTdaaeafddSfiYKEIdkpaertipfyqvtltehlspfqawrnfankkeyl-----  1sWODYFMANELISKRS---TCnrAYVGAVLVKNNRLATCYNGGvadtdNCddvghEmedghcIRVVAEMNALIQCAKE-GI-SANNTEIYVTHFPCInTKALLOAGVVKITNTAYR-----I--HP-F-----aielmtqkeveyvqh</p> <p>-----  dvprvkl</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=7.49 (Å)  nhet--FLKRAVTLACEGVnagIG--GPFAGAVIKVDGAELEONNV---VTTS-----NDPTAH-AEVTAIRKAQKVLAYQLDDCIIYTSCEPCP-LGAIYWARPKAVFAAE-----HTDAAEAGFD-----dsfiykeidkpaertipfyqvtltehlspfqawrnfankkeyl  ----1sWODYFMANELISKRSTCnrAYVGAVLVKNNRLATCYNGGvadtdnCDDVghemedGHCIRTVHAEMNALIQCAKEGI-SANNTEIYVTHFPCINTKALLOAGVVKITNTAYrihfaELMTQKEVEYvqhdvprvkl-----</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=20.98% (30/143) simi=34.97% (50/143)  nhetflkravtlacegvnagiggpl-----sWODYFMANELISKRSTCnrAYVGAVLVKNNRLATCYNGGvadtdNCddvghEmedghcIRVVAEMNALIQCAKEGI-SANNTEIYVTHFPCINTKALLOAGVVKITNTAYRIH--P--IELMTQKEVEYvqhdvprvkl  -----1swqdyfmanaelskrstcnrayvGAVIKVDGAELEONNVTTSNPTahaevtairkakVLAyQLDDCIIYTSCEPCP-LGAIYWARPKAVFAAEHTDAAEAGFDSDSfiYKEIDKPAERTIpfVOVTLTEHlsPqAWRNFAK-K-EYL-----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.97 (Å)  -MNHETFLKRAVTLACEGVnagIG--GPFAGAVIKVDGAELEONNV---TT-----sNDptAHAEVTAIRKACVLAyQLDDCIIYTSCEPCP-LGAIYWARPKAVFAAEHTdaaeafddSfiYKEIDKPAERTI-----pfyqvtltehlspfqawrnfankkeyl  1sWODYFMANELISKRS---TCnrAYVGAVLVKNNRLATCYNGGvadtdNCddvghEmedghcIRVVAEMNALIQCAKEGILS--ANNTEIYVTHFPCINTKALLOAGVVKITNTAY-----RIHPFAELMTQKE--VEYvqhdvprvkl-----</p>
463	<p><b>lu6mA (189)</b></p> <p><b>lvkA (149)</b></p>	C	20.81	<p><b>TM-align:</b> aliSize=135 (resi) RMSD=3.06 (Å)  -SLIRSATKEDGOAARVVLVILKDMEL-PILEIV-seeqMid--LLae--AtaYpTYRy---y-ORILYEHA-GEVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTL--PN-EWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  eYTVVDGEE-YIEEKKIDREISYSFVRFPISYEY---E--rhEE--lfe--S-LLS-q--eHKFFALNERSELLGHVWICITL-----DTvdYVkiAIIYDIEVVKWARGLGIGSALRKAEWAKERAKKIVRVEIDN-PVWWEERYARALMEKPI</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=6.08 (Å)  s-LIRSATKEDGOAARVVLVILKdmeIPILEEVs-----EOMIDLAEATAYptyrygyqRILVYEH---AGVVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  -eYTVVDGEE-YIEEKKIDREISYSFVRFPISYEY---E--rhEE--lfe--S-LLS-q--eHKFFALNERSELLGHVWICITL-----ITLDTVDYVK-IAIYDIEVVKWARGLGIGSALRKAEWAKERAKKIVRVEIDN-PVWWEERYARALMEKPI</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=16.78% (25/149) simi=22.15% (33/149)  slirsatkedgqaiarlvlvilkdmelpileevseeqmidllaeatayptyrygyqRILVYEH---AGVVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  -----eYTVVDGEE-YIEEKKIDREISYSFVRFPISYEY---E--rhEE--lfe--S-LLS-q--eHKFFALNERSELLGHVWICITL-----ITLDTVDYVK-IAIYDIEVVKWARGLGIGSALRKAEWAKERAKKIVRVEIDN-PVWWEERYARALMEKPI</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.42 (Å)  -SLIRSATKEDGOAARVVLVILKDMEL-PILEIV-seeqMid--LLae--AtaYpTYRy---y-ORILYEHA-GEVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  eYTVVDGEE-YIEEKKIDREISYSFVRFPISYEY---E--rhEE--lfe--S-LLS-q--eHKFFALNERSELLGHVWICITL-----ITLDTVDYVK-IAIYDIEVVKWARGLGIGSALRKAEWAKERAKKIVRVEIDN-PVWWEERYARALMEKPI</p> <p><b>TMISghlynmqkeve</b>  ALMEKPI</p>
464	<p><b>lu6mA (189)</b></p> <p><b>2d4pA (130)</b></p>	C	16.15	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.84 (Å)  SLIRSATKEDGOAARVVLVILKdmeIPILEEVsEOMIDLAEATAYptyryGYOR--ILVYEHAGVVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  MRFPPFEEDLDRLNRLA-GKR-----PV--SL-GALR--F--FARTghSFLAEEGEPMCFALAQAQVW-----QgeaTTLVTRLEG---RSVEALRGLRAVVKSYDAGVYEVALHLD--PERKELEEBALKAEFGAIGPLVLAARVLSR</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=6.46 (Å)  s-LIRSATKEDGOAARVVLVILKdmeIPILEEVsEOMIDLAEATAYptyryGYOR--ILVYEHAGVVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  -mRFPFEEDLDRLNRLA-GKR-----PV--SL-GALR--F--FARTghSFLAEEGEPMCFALAQAQVW-----QgeaTTLVTRLEG---RSVEALRGLRAVVKSYDAGVYEVALHLD--PERKELEEBALKAEFGAIGPLVLAARVLSR</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=10.00% (13/130) simi=20.00% (26/130)  slirsatkedgqaiarlvlvilkdmelpileevseeqmidllaeatayptyrygyqRILVYEHAGVVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  -----mRFPFEEDLDRLNRLA-GKR-----PV--SL-GALR--F--FARTghSFLAEEGEPMCFALAQAQVW-----QgeaTTLVTRLEG---RSVEALRGLRAVVKSYDAGVYEVALHLD--PERKELEEBALKAEFGAIGPLVLAARVLSR</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.53 (Å)  SLIRSATKEDGOAARVVLVILKdmeIPILEEVsEOMIDLAEATAYptyryGYOR--ILVYEHAGVVAIIAVGYPAEdekiideplrevfkkhgladvrlfieceeTLpNEWLDTSVDERFRGMGIGSKLDALPEVAKASKOALGINVDFDNpGARKLYASKCFK-DVTTMTISghlynmqkeve-  MRFPPFEEDLDRLNRLA-GKR-----PV--SL-GALR--F--FARTghSFLAEEGEPMCFALAQAQVW-----QgeaTTLVTRLEG---RSVEALRGLRAVVKSYDAGVYEVALHLD--PERKELEEBALKAEFGAIGPLVLAARVLSR</p> <p><b>NHMQkeve</b>  LGSR----</p>

465	<p>1u6mA (189)</p> <hr/> <p>2f5iA (167)</p>	C	<p>21.56</p> <p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.53 (Å)  -<b>S</b>LSATKEGOAARLVVIL-D-<b>M</b>LpLLeevseeqmidLAEATAY-P---TYRygyqRIIYHAG-----EVAGIIVGPAEdekiideplrevfkkhglaedvrlfieet---LPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  kFVIRPATAACSDLLRIKELAYEYME-Q---V---I---TEKDLEdGfgehPFY---HCLVAVPKehwtpEGHSIVGFAMYFTY-----dpwIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDL</p> <p><b>TT--MTISgh</b>lynhmqkeve-----  <b>S</b>SecgWRLR-----kidkeyllkmat</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=6.09 (Å)  s---LRSATKEGOAARLVVILDMELPILEEVSFEOMIDLaeatayPTYRYGYORIIYH-----AIE-VAGIIVGPAEdekiideplrevfkkhglaedvrlfIEEETlpneWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKD-----  -kfVIRPATAACSDLLRIKELAYEYMEEQVILT-KDLED-----GFGHPFYHCLVAVPKehwtpEGHSIVGFAMYFTY-----TYDPWIGK---L---LEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDLsseeqwrIF</p> <p>-----vttmtisghlynhmqkev  kidkeyllkmat-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=27.54% (46/167) simi=42.51% (71/167)  s---LRSATKEGOAARLVVILdmlpileVSEECM-----DLAEATA-YPTyrygyqRIIYHAGvagiavGYPADKIDeplrevfkkhglaedvRLIEEETLPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALG-NVDFDNGARKLYASKFKDVT-----  -kfVIRPATAACSDLLRIKELAYEYMEEQVILtekDLLEDGFGHPFY---HCLVAVPK-----HWTPGHSIV-----GFA---MYYTYDPWIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDLSSeegwrIFkI</p> <p>-----mtisghlynhmqkev  dkeyllkmat-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.04 (Å)  -<b>S</b>LSATKEGOAARLVVIL-D-<b>M</b>LpLLeevseeqmidLAEATA-YP---TYRygyqRIIYHAG-----EVAGIIVGPAEdekiideplrevfkkhglaedvrlfieetLP---NEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  kFVIRPATAACSDLLRIKELAYEYME-Qv-----I---TEKDLEdGfgehPFY---HCLVAVPKehwtpEGHSIVGFAMYFTY-----DpwIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGAS</p> <p><b>hvtmtIS--GHLYNHMOKEV</b>-----  <b>D</b>-----DLSS-EEGWRLFKIDKylkmat</p>
466	<p>1u6mA (189)</p> <hr/> <p>2g3tB (168)</p>	C	<p>22.02</p> <p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.50 (Å)  -<b>S</b>LSATKEGOAARLVVIL-D-<b>M</b>LpLLeevseeqmidLAEATAY-P---TYRygyqRIIYHAG-----EVAGIIVGPAEdekiideplrevfkkhglaedvrlfieet---LPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  kFVIRPATAACSDLLRIKELAYEYMEQ-V---I---TEKDLEdGfgehPFY---HCLVAVPKehwtpEGHSIVGFAMYFTY-----dpwIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDL</p> <p><b>T---TMTISgh</b>lynhmqkeve-----  <b>S</b>SecgWRLFK-----idkeyllkmate</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=6.20 (Å)  s---LRSATKEGOAARLVVILkDMELPI---LEEVSseeqmidLAEATAYPTyrygyqRIIYHAGvagiavGYPADKIDeplrevfkkhglaedvRLIEEETLPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALG-NVDFDNGARKLYASKFKDVT-----  -kfVIRPATAACSDLLRIKEL--AKYEYMEeqVILT-----EKDLEDG--FGEHPFYHCLVAVPKehwtpEGHSIVGFAMYFTY-----FTYDPWIGK---L---LEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDLsseeqwrIFkI</p> <p>-----vttmtisghlynhmqkev  rIfkidkeyllkmate-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=27.38% (46/168) simi=42.26% (71/168)  s---LRSATKEGOAARLVVILdmlpileVSEECM-----DLAEATA-YPTyrygyqRIIYHAGvagiavGYPADKIDeplrevfkkhglaedvRLIEEETLPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALG-NVDFDNGARKLYASKFKDVT-----  -kfVIRPATAACSDLLRIKELAYEYMEEQVILtekDLLEDGFGHPFY---HCLVAVPK-----HWTPGHSIV-----GFA---MYYTYDPWIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDLSSeegwrIFkI</p> <p>-----mtisghlynhmqkev  dkeyllkmate-----</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=2.00 (Å)  -<b>S</b>LSATKEGOAARLVVIL-D-<b>M</b>LpLLeevseeqmidLAEATA-YP---TYRygyqRIIYHAG-----EVAGIIVGPAEdekiideplrevfkkhglaedvrlfieetLP---NEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  kFVIRPATAACSDLLRIKELAYEYME-Qv-----I---TEKDLEdGfgehPFY---HCLVAVPKehwtpEGHSIVGFAMYFTY-----DpwIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGAS</p> <p><b>D-vttMTISGHLYNHMOKEV</b>-----  <b>D</b>-----SS--EEGWRLFKIDKylkmate</p>
467	<p>1u6mA (189)</p> <hr/> <p>2jevA (169)</p>	C	<p>20.71</p> <p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.56 (Å)  -<b>S</b>LSATKEGOAARLVVIL-D-<b>M</b>LpLLeevseeqmidLAEATAY-P---TYRygyqRIIYHAG-----EVAGIIVGPAEdekiideplrevfkkhglaedvrlfieet---LPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  akFVIRPATAACSDLLRIKELAYEYME-Qv-----I---TEKDLEdGfgehPFY---HCLVAVPKehwtpEGHSIVGFAMYFTY-----dpwIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDL</p> <p><b>VT--MTISgh</b>lynhmqkeve-----  <b>L</b>SSecgWRLR-----kidkeyllkmate</p> <p><b>SARST:</b> aliSize=131 (resi) RMSD=6.15 (Å)  s---LRSATKEGOAARLVVILkDMELPIL---EEVSseeqmidLAEATAYPTyrygyqRIIYHAGvagiavGYPADKIDeplrevfkkhglaedvRLIEEETLPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  -akfVIRPATAACSDLLRIKEL--AKYEYMEeqVILT-----EKDLEDG--FGEHP--FYHCLVAevpkewtpEGHSIVGFAMYFTY-----FTYDPWIGK---L---LEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDLsseeqwrIFkI</p> <p>-----tmtisghlynhmqkev  egwrIfkidkeyllkmate-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=27.22% (46/169) simi=42.01% (71/169)  s---LRSATKEGOAARLVVILdmlpileVSEECM-----DLAEATA-YPTyrygyqRIIYHAGvagiavGYPADKIDeplrevfkkhglaedvRLIEEETLPNEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALG-NVDFDNGARKLYASKFKDVT-----  -akfVIRPATAACSDLLRIKELAYEYMEEQVILtekDLLEDGFGHPFY---HCLVAVPK-----HWTPGHSIV-----GFA---MYYTYDPWIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGASDLSSeegwrIFkI</p> <p>-----mtisghlynhmqkev  idkeyllkmate-----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.07 (Å)  -<b>S</b>LSATKEGOAARLVVIL-D-<b>M</b>LpLLeevseeqmidLAEATA-YP---TYRygyqRIIYHAG-----EVAGIIVGPAEdekiideplrevfkkhglaedvrlfieetLP---NEWYDTISVDERFRMGIGSKLDAPEVAKASGKOALGLNDFDNGARKLYASKFKDVF---  akFVIRPATAACSDLLRIKELAYEYME-Qv-----I---TEKDLEdGfgehPFY---HCLVAVPKehwtpEGHSIVGFAMYFTY-----DpwIGKLLYLEDFMMSDYRGFGIGSEIKNSQVAMRCRCSSMHFLAEWNEPSINFKRRGAS</p> <p><b>-kdvttMTISGHLYNHMOKEV</b>-----  <b>sd</b>-----LSs--EEGWRLFKIDkeyllkmate</p>

468	1v9yA (103)	N	15.53	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.10 (Å)  g-----I-FF---PaLEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RLEQLEKkDGSKIWTRFALS<sup>SV</sup>SAegKVY<sup>L</sup>LALVRD-  -mehvafgsedientLaKMDdgQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVAsgnlntmfEYTFDY-QMTPKVKVHMKKALS--GDSYWFVKRv</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=13.30 (Å)  gif-----FPALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPrdLRPAHP<sup>EYI</sup>rhnrerelqlekK<sup>D</sup>SKIWTRFALS<sup>SKV</sup>SAEGKVY<sup>YL</sup>LALV-----rd  ---mehvafgsedientlakmdDGQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGV-----AS<sup>LN</sup>LNLMFEYTFDYQMTPTKVKVHMKKalsgdsywwfvkrv--</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=13.59% (14/103) simi=25.24% (26/103)  giffpaLeqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliPRdLRPA--HPEY-----irhnrerelqlekKdgskiwtrfalskvsaeqkvyylalvrd  -----mehvafgsedientlakmdggldglafGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFF----KDVAPCtdSP<sup>EY</sup>fygkfkgevasgnlntmfeytfdyqmtptkvkvhmkkalsgdsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.95 (Å)  -----GIFFPA---LEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RLEQLEKkDGSKIWTRFALS<sup>SKV</sup>SAegKVY<sup>L</sup>LALVRD-h  mehvafgsedientLaKMDdgQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVAsgnlntmfEYTFDY-QMTPKVKVHMKKALS--GDSYWFVKRv-</p>
469	1v9yA (103)	N	15.53	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.04 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RLEQLEKkDGSKIWTRFALS<sup>SKV</sup>SAegKVY<sup>L</sup>LALVRD-  -vafgsedientLaKMDdgQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVAsgnlntmfEYTFDY-QMTPKVKVHMKKALS--GDSYWFVKRv</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=13.32 (Å)  gif-----FPALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPrdLRPAHP<sup>EYI</sup>rhnrerelqlekK<sup>D</sup>SKIWTRFALS<sup>SKV</sup>SAEGKVY<sup>YL</sup>LALV-----rd  ---vafgsedientlakmdDGQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGV-----AS<sup>LN</sup>LNLMFEYTFDYQMTPTKVKVHMKKalsgdsywwfvkrv--</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaLeqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliPRdLRPA--HPEY-----irhnrerelqlekKdgskiwtrfalskvsaeqkvyylalvrd  -----vafgsedientlakmdggldglafGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFF----KDVAPCtdSP<sup>EY</sup>fygkfkgevasgnlntmfeytfdyqmtptkvkvhmkkalsgdsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.05 (Å)  GI-----F--FP-----LEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RLEQLEKkDGSKIWTRFALS<sup>SKV</sup>SAegKVY<sup>L</sup>LALVRD-h  VafgsedientLaKMDdgQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVAsgnlntmfEYTFDY-QMTPKVKVHMKKALS--GDSYWFVKRv-</p>
470	1v9yA (103)	N	15.53	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.07 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RLEQLEKkDGSKIWTRFALS<sup>SKV</sup>SAegKVY<sup>L</sup>LALVRD-  -vafgsedientLaKMDdgQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVAsgnlntmfEYTFDY-QMTPKVKVHMKKALS--GDSYWFVKRv</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=13.30 (Å)  gif-----FPALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPrdLRPAHP<sup>EYI</sup>rhnrerelqlekK<sup>D</sup>SKIWTRFALS<sup>SKV</sup>SAEGKVY<sup>YL</sup>LALV-----rd  ---vafgsedientlakmdDGQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGV-----AS<sup>LN</sup>LNLMFEYTFDYQMTPTKVKVHMKKalsgdsywwfvkrv--</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=11.65% (12/103) simi=24.27% (25/103)  giffpaLeqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliPRdLRPA--HPEY-----irhnrerelqlekKdgskiwtrfalskvsaeqkvyylalvrd  -----vafgsedientlakmdggldglafGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFF----KDVAPCtdSP<sup>EY</sup>fygkfkgevasgnlntmfeytfdyqmtptkvkvhmkkalsgdsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.04 (Å)  G-----IFFP-A-----LEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RLEQLEKkDGSKIWTRFALS<sup>SKV</sup>SAegKVY<sup>L</sup>LALVRD-h  VafgsedientLaKMDdgQLDGLAFGAIQLDGDGNILQYNAEEDITSRDPKQVIGKNFFkdVAPC--TDSPeFYGKFKEGVAsgnlntmfEYTFDY-QMTPKVKVHMKKALS--GDSYWFVKRv-</p>

471	<p>1v9yA (103)</p> <hr/> <p>lgsxA (122)</p>	N	13.59	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.12 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKkDGSKIWTRFALSKVSAegKvYyLALVRD-  -vafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAESDITSRDPKQVIGKNFFkdVAPC--TDSPEFYGKFKEGVASgnIntmFYYTFDY-QMTPKVKVHMKKALS--GDSYVWFVKRv</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=4.85 (Å)  gif-----FPALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNI-----DMLIPrdLRPAHPEYIRHNRERELQLEKkDGSKIWTRFALSKVSAegKvYyLALVR--d  ---vafgsedientlAkmdDGQLDGLAFGAIQLDGDGNILQYNAAESDITSRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGVASGNLNTMFEYTFYQMTPTKVKVHMKKALSgDSYVWFVKrv-</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=11.65% (12/103) simi=24.27% (25/103)  giffpaLeqnm-----GAVLINENDEVMFFNPAAEKLWGYKREEVIGNNIDmliPrdLRPA--HPEY-----irhnreRelqlekkDgskIwtrfalskvsAegkvYyLalvrd  -----vafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAESDITSRDPKQVIGKNFF----KDVAPCtdSPEFYgkfkegvasgnIntmfeytdyqmtptkvkvhmkalsgdsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.06 (Å)  GI-----F-FPA-----LEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RELQLEKkDGSKIWTRFALSKVSAegKvYyLALVRD-h  VafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAESDITSRDPKQVIGKNFFkdVAPC-TDSPEFYGKFKEGVASgnIntmFYYTFDYQMTPTKVKVHMKKALS--GDSYVWFVKRv-</p>
472	<p>1v9yA (103)</p> <hr/> <p>lmzuB (114)</p>	N	13.59	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.32 (Å)  ---G--IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKkDGSKIWTRFALSKVSAegKvYyLALVRD  irgTidGmgTAEFDALPVGAIQVDGSGVIHRYNRTESRISCRIPERVIGRNFfteVAPC--TNIPaFSGRFMDGVTsgtldarDFDFVDF-QMAPVRVQIRMQAGV--PDRYWI FVRK</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=3.81 (Å)  gif-----FPALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNIDMLIPrdLRPAHPEYIRHNRE-----ELQLEKkDGSKIWTRFALSKVSAegkvYyLALVRD  ---irgtidGmgTAEFDALPVGAIQVDGSGVIHRYNRTESRISCRIPERVIGRNFfteVAPCTniPAFSGRFMDGVTsgtldarDFDFVDFQMAPVRVQIRMQAGVPD---RYWIFVRK</p> <p><b>BLAST:</b> aliSize=18 (resi) iden=9.71% (10/103) simi=17.48% (18/103)  giffpaLeqnm-----MGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNI-----idmliprdlrpahpeyirhnreRelqlekkDgskIwtrfalskvsAegkvYyLalvrd  -----irgtidGmgTAEFDALPVGAIQVDGSGVIHRYNRTESRISCRIPERVIGRNFftevapctnipafsgrfmdgvtsgtldarDFDFVDFQMAPVRVQIRMQAGVPdrywifvrk-----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.92 (Å)  --GIFFP---ALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKkDGSKIWTRFALSKVSAegKvYyLALVRDh  irgTidGmgTAEFDALPVGAIQVDGSGVIHRYNRTESRISCRIPERVIGRNFfteVAPC--TNIPaFSGRFMDGVTsgtldarDFDFVDF-QMAPVRVQIRMQAGV--PDRYWI FVRK-</p>
473	<p>1v9yA (103)</p> <hr/> <p>lot6A (125)</p>	N	14.56	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.05 (Å)  g-I-----FF---PaLEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKkDGSKIWTRFALSKVSAegKvYyLALVRD-  -mEhVafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAQGDITSRDPKQVIGKNFFkdVAPC--TDSPEFYGKFKEGVASgnIntmFYYTFDY-QMTPKVKVHMKKALSg--DSYVWFVKRv</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=13.34 (Å)  gif-----FPALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNI-----DMLIPrdLRPAHPEYIRHNRERELQLEKkDGSKIWTRFALSKVSAegKvYyLALV-----rd  ---mehVafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAQGDITSRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGV-----ASGNLNTMFEYTFDYQMTPTKVKVHMKKALSgdsywwfvkrv--</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaLeqnm-----GAVLINENDEVMFFNPAAEKLWGYKREEVIGNNIDmliPrdLRPA--HPEY-----irhnreRelqlekkDgskIwtrfalskvsAegkvYyLalvrd  -----mehVafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAQGDITSRDPKQVIGKNFF----KDVAPCtdSPEFYgkfkegvasgnIntmfeytdyqmtptkvkvhmkalsgdsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.03 (Å)  ---G-----IFFPA---LEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RELQLEKkDGSKIWTRFALSKVSAegKvYyLALVRD-h  mehVafgsedientlAkmdDgQLDGLAFGAIQLDGDGNILQYNAAQGDITSRDPKQVIGKNFFkdVAPC-TDSPEFYGKFKEGVASgnIntmFYYTFDYQMTPTKVKVHMKKALS--GDSYVWFVKRv-</p>

474	<p>1v9yA (103)</p> <hr/> <p>1uguA (122)</p>	N	14.56	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.07 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKKGSKIWTRFALSKVSAEgKvYLLALVRD-  -vafgsedientlakMDdGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdVAPC--TDSPEFYGKFKEGVAsgnIntmFYYTFDYQM-TPTKVKVHMKKALS-G-D-SYVWFVKRv</p> <p><b>SARST:</b> aliSize=97 (resi) RMSD=5.09 (Å)  gif-----FPALAEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPRDLRPAHPEYIRHNRERELQLEKKGSKIWTRFALSKVSA--EGKVVYLLAL--vrd  ---vafgsedientlakmdDGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGVASGNLNTMFEYTFDYQMTPTKVKVHMKKALS-GDSYVWFVKRv---</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaieqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliprdLRPA--HPEY-----i rhnre relqlekkdgskiwtrfalskvs aegkvyyllalvrd  -----vafgsedientlakmdgdgldglafGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFF----KDVAPCtdSPEFYgkfkegvasgnIntmfeytfdyqmtptkvkvhmkkalsgdsywfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.05 (Å)  -----GT-FFP--ALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RELQLEKKGSKIWTRFALSKVSAegKVYLLALVRD-h  vafgsedientLaKMDdGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdVAPC-TDSPEFYGKFKEGVAsgnIntmFYYTFDYQM-TPTKVKVHMKKALS--GDSYVWFVKRv-</p>
475	<p>1v9yA (103)</p> <hr/> <p>2d01A (124)</p>	N	15.53	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.07 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKKGSKIWTRFALSKVSAEgKvYLLALVRD-  -ehvafgsedientlakMDdGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdVAPC--TDSPEFYGKFKEGVAsgnIntmFYYTFDYQM-TPTKVKVHMKKALS-G-D-SYVWFVKRv</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=4.91 (Å)  gif-----FPALAEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPRDLrpAHPEYIRHNRERELQLEKKGSKIWTRFALSKVSAEGKVYLLAL--vrd  ---ehvafgsedientlakmdDGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGVASGNLNTMFEYTFDYQMTPTKVKVHMKKALS-GDSYVWFVKRv---</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaieqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliprdLRPA--HPEY-----i rhnre relqlekkdgskiwtrfalskvs aegkvyyllalvrd  -----ehvafgsedientlakmdgdgldglafGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFF----KDVAPCtdSPEFYgkfkegvasgnIntmfeytfdyqmtptkvkvhmkkalsgdsywfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=1.99 (Å)  -----GTFPPA-----LEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RELQLEKKGSKIWTRFALSKVSAegKVYLLALVRD-h  ehvafgsedientLaKMDdGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdVAPC-TDSPEFYGKFKEGVAsgnIntmFYYTFDYQM-TPTKVKVHMKKALS--GDSYVWFVKRv-</p>
476	<p>1v9yA (103)</p> <hr/> <p>2qj7A (123)</p>	N	15.53	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.12 (Å)  g-----IFF-PALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID--MLIPrdLRPA-HPEYIRHNRE-----RELQLEKKGSKIWTRFALSKVSAEgKvYLLALVRD-  -hvafgsedientlakMDdGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdVAPC--TDSPEFYGKFKEGVAsgnIntmFYYTFDYQM-TPTKVKVHMKKALS-G-D-SYVWFVKRv</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=13.33 (Å)  gif-----FPALAEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNI-----DMLIPRDLRPAHPEYIRHNRERELQLEKKGSKIWTRFALSKVSAEGKVYLLALV-----rd  ---hvafgsedientlakmdDGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdvaPCTDSPEFYGKFKEGV-----ASGNLNTMFEYTFDYQMTPTKVKVHMKKALS-GDSYVWFVKRv---</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaieqnm-----GAVLINENDEVMFFNPAAEKLWYKREEVIGNNIDmliprdLRPA--HPEY-----i rhnre relqlekkdgskiwtrfalskvs aegkvyyllalvrd  -----hvafgsedientlakmdgdgldglafGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFF----KDVAPCtdSPEFYgkfkegvasgnIntmfeytfdyqmtptkvkvhmkkalsgdsywfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.14 (Å)  -G-----IFF--P-----ALEQNMMGAVLINENDEVMFFNPAAEKLWYKREEVIGNNID-MLIPrdLRPA-HPEYIRHNRE-----RELQLEKKGSKIWTRFALSKVSAegKVYLLALVRD-h  hvafgsedientLaKMDdGQLDGLAFGAIQLDGDGNILQYNAAQGDITGRDPKQVIGKNFFkdVAPC-TDSPEFYGKFKEGVAsgnIntmFYYTFDYQM-TPTKVKVHMKKALS--GDSYVWFVKRv-</p>

477	<p>1v9yA (103)</p> <p>3phyA (125)</p>	N	15.53	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.48 (Å)  g-----IF---FP--AEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNI-D-MLIPrdLRPA-HPeY-IRHNRE-----RQLQLEKKDGSKIWTRFALSIVSAEgKvYLLALVRD-  -mehvafgsedientlAkMddgQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFfKdVAPC--TDSPeFY-GkFKEGVAsgnlntmFYTFDY-QMTPTKVKVHMKKALSg-D-SWVFKRv</p> <p><b>SARST:</b> aliSize=60 (resi) RMSD=10.93 (Å)  giffpaIe-----QNMMAVLIENDEVMFFNPA-----EKLWYKreevignnidmliprdlrpahpeyirhrnRELOLEKKDGSKIWRFALSIVSA-----EGKVVYLLAL--vrd  -----mehvafgsedientlAkMddgQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFfKdVAPC--TDSPeFYGkFKEGVAsgnlntmFYTFDY-QMTPTKVKVHMKKALSgDSYVWVFKrv---</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=12.62% (13/103) simi=25.24% (26/103)  giffpaIeqnm-----GAVLINENDEVMFFNPAEKLWYKREEVIGNNIDmliprdLRPA--HPEY-----irhnrelqlekkdgskiwtrfalskvsaegekvyllalvrd  -----mehvafgsedientlAkMddgQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFfKdVAPC--TDSPeFYGkFKEGVAsgnlntmFYTFDY-QMTPTKVKVHMKKALSgdsywwfvkrv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.29 (Å)  -----G-IFPPA-----AEQNMMGAVLINENDEVMFFNPAEKLWYKREEVIGNNID-MLIPrdLRPA-HPeYIRHNRE-----RQLQLEKKDGSKIWTRFALSIVSAEgKvYLLALVRD-h  mehvafgsEdIENTLAKMDDGQLDGLAFGAIQLDGDGNILQYNAEGDITGRDPKQVIGKNFfKdVAPC--TDSPeFYGkFKEGVAsgnlntmFYTFDY-QMTPTKVKVHMKKALSg-D-SWVFKRv-</p>
478	<p>1wk4A (174)</p> <p>1s3zB (145)</p>	C	16.55	<p><b>TM-align:</b> aliSize=137 (resi) RMSD=1.99 (Å)  VRIRRAGLEDIPGVARVLVDtWratyrgvveafLeLSYEGOAEERWAORIKTptWPGRLFVAESESFEVVGFVAFGPD-RASG-FPGY-TAEIWAIVYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk-----  MDIRQMNKTHIEHWRGLRKQL-----P-CHPDDAHLADGEEILQA--DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFSFRQRVAKQIAAVQWGTNKCCEMASDTSPENTISQKVHQAIGFEETERVIFyrkr-----rkr</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=3.06 (Å)  v-RIIRAGLEDIPGVARVLVDtWratyrgvveafLeLSYEGOAEERWAORIKTPTWpGRFVAESESFEVVGFVAFGPDRAsgFPYTAE----WAIYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk  -mDIRQMNKTHIEHWRGLRKQL-----WP---CHPDDAHLADGEEILQADHL--ASFIAMAD-GVAIGFADASIRHD-YVNgCDSSpVVFEGIFVLPFSFRQRVAKQIAAVQWGTNKCCEMASDTSPENTISQKVHQAIGFEETERVIFyrkr-----rkr</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=14.48% (21/145) simi=27.59% (40/145)  vrirragledlpgvarvlvdtwratyrgvveafleglsyegqaerwaqrktpwpgrl-----FVAESESFEVVGFVAFGPD-RASG-FPGY-TAEIWAIVYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk  -----mdirqmknthlehwgrlkrqlwpghpdahladgeeilqadhlafIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFSFRQRVAKQIAAVQWGTNKCCEMASDTSPENTISQKVHQAIGFEETERVIFyrkr-----rkr</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=1.85 (Å)  VRIRRAGLEDIPGVARVLVDtWratyrgvveafLeLSYEGOAEERWAORIKTptWPGRLFVAESESFEVVGFVAFGPD-RASG-FPGY-TAEIWAIVYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk  MDIRQMNKTHIEHWRGLRKQL-----G--HPDDAHLADGEEILQA--DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFSFRQRVAKQIAAVQWGTNKCCEMASDTSPENTISQKVHQAIGFEETERVIFyrkr-----rkr</p>
479	<p>1wk4A (174)</p> <p>1ufhA (155)</p>	C	10.32	<p><b>TM-align:</b> aliSize=142 (resi) RMSD=3.86 (Å)  VRI-RRAGLEDIPGVARVLVDtWra-TYRGV---PEA-FLEGLSye-GOAEERWAORIKTptWPGRLFVAESESFEVVGFVAFGPD-RASG-FPGY-TAEIWAIVYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk--  TIMTPMQTEFRSYLTYTKHYAEKVKAGTWLPEDAQLLSK--qVFTDLLPRGLEI--PHHHLWSLKLNEKDIVGWLWIHAE-----pehQQEAFIYDFGLYEPYRGGYAKQALALDQAARSMIRKLSLHVFAHNQTARKLYEQTQFQETDVMMSKkl-----sk-----kl</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=5.30 (Å)  vrirrag-----LEDIPGVARVLVDtWratyrgvveafLeLSYEGOAEERWAORIKTPTWpGRFVAESESFEVVGFVAFGPDRA--SGFpgytELWAIYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk  -----timltpmqteeFRSYLTYTKHYAEKVKAGTWLPEDA---QLLSKQVFTDL--LRgletPHHHLWSLKLNEKDIVGWLWIHAEPEhpQE---AFIYDFGLYEPYRGGYAKQALALDQAARSMIRKLSLHVFAHNQTARKLYEQTQFQETDVMMSKkl-----sk-----kl</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=9.68% (15/155) simi=15.48% (24/155)  vrirragledlpgvarvlvdtwratyrgvveafleglsyegqaerwaqrktpwpgrlfvaesesevvgfaafgpdrasgfpgytaelwaiyvlpwqrkglgralfh-----GARRLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk  -----timltpmqteeFRSYLTYTKHYAEKVKAGTWLPEDAQLLSKQVFTDL--LRgletPHHHLWSLKLNEKDIVGWLWIHAEPEhpQE---AFIYDFGLYEPYRGGYAKQALALDQAARSMIRKLSLHVFAHNQTARKLYEQTQFQETDVMMSKkl-----sk-----kl</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.96 (Å)  v-RI-RRAGLEDIPGVARVLVDtWra-TYRGV---PEAFLEG-LS--yegQaeR--WAORIKTptWPGRLFVAE---SESgeVVGFAAFGP---D-rasgfpGYTELWAIYVLPWORKLGRALFHEGARLLOAEYGR-LVWVLKENPKGRGFYEHGGVLLGERFIElggaklwevaygfdlgghk  -tIMTPMQTEFRSYLTYTKHYAE---EKVKAGTWLPEDAQLLSKQV---F--TdlPRGLEI--PHHHLWSLKLNEKDIVGWLWIHAEPEhp-----QQEAFIYDFGLYEPYRGGYAKQALALDQAARSMIRKLSLHVFAHNQTARKLYEQTQFQETDVMMSKkl-----sk-----kl</p>



480	1wk4A (174)	C	16.92	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=2.89 (Å)  VRIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw-  MRFRPFTEEDLDRNLKLAG-----K--R-P--VSLGALRFFA---RTGHSFLAEEG-E-PMGFALAQAVW--Q-gEATVVLVTRIEGR---SV-EALRGLRAVVKSAIDAVYEvALHLDPEERkeLEALKAEFAIGpVLAVRVLGS-----r</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=5.34 (Å)  v--RIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  -mMRFRPFTEEDLDRNLKLAG-----LA--KR-----VSLGALRFFART-----GHSFLAEEG-E-PMGFALAQAVWQ--EATT-VLVTRIEGRSVE-----ALRGLRAVVKSAIDAVYEvALHLDPEERkeLEALKAEFAIGpVLAVRVLGS-----r</p> <p><b>BLAST:</b> aliSize=35 (resi) iden=20.00% (26/130) simi=26.92% (35/130)  vriirragledlpgvarvlvtwratyrgvpeafleg-----SYEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  -----mrfrpfteedldrnlr lagkrpvs lgal rffartghsf LAECEE-PMGFALAQAVWQ--EATT-VLVTRIEGRSVE---ALRGLRAVVKSAIDAVYEvALHLDPEERkeLEALKAEFAIGpVLAVRVLGS-----lqaegyrlvwlkenpk  grgyehlpgvllgereieIlggakiwevaygfdlgghkw</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=2.25 (Å)  VRIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  MRFRPFTEEDLDRNLKLAG-----K--RP--VSLGALRFFA---RTGHSFLAEEG-E-PMGFALAQAVW----QgeATVVLVTRIEGR---SV-EALRGLRAVVKSAIDAVYEvALHLDPEERkeLEALKAEFAIGpVLAVRVLGS-----RVLGSR-----</p>
481	1wk4A (174)	C	14.97	<p><b>TM-align:</b> aliSize=142 (resi) RMSD=2.47 (Å)  VRIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw-  kFVIRPATAACSDILRLIKELAK-YE--YME--E--QVI--LLEKDLLEDGFGHPFYHCLVAEVpkEHWtpeghSIVGFAMYFTY--DPWIGKLLYEDFFMSDYRGFIISEILKNSQVAMRCRCSsmHFLAEWNEPSINEKRRASDLSseeGwrlfkikeyl kmat-----idk  -----  eyllkmat</p> <p><b>SARST:</b> aliSize=130 (resi) RMSD=3.93 (Å)  v--RIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  -kfVIRPATAACSDILRLIKELAK-YE--YME--E--QVI--LLEKDLLEDGFGHPFYHCLVAEVpkEHWtpeghSIVGFAMYFTY--DPWIGKLLYEDFFMSDYRGFIISEILKNSQVAMRCRCSsmHFLAEWNEPSINEKRRASDLSseeGwrlfkikeyl kmat-----lgerieie  Ilggakiwevaygfdlgghkw</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=17.96% (30/167) simi=33.53% (56/167)  vriirragledlpgvarvlvtwratyrgvpeafleg-----SYEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  --kfvirpataacsdilrlikelak-ye--yme--e--qvi--llekdll ledgfg hppfy hclvaevpk ehwtpegh s ivgf amyfty dpwi --- gk lly edff msdyrgf ii seil knl sqv amrcrcs sm hfl vae w ne ps in e krr a sd ls see g wrl f ki key l kmat ----- l gg h kw</p> <p><b>Proposed:</b> aliSize=152 (resi) RMSD=2.17 (Å)  VRIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  kFVIRPATAACSDILRLIKELAK-YE--YME--E--QVI--LLEKDLLEDGFGHPFYHCLVAEVpkEHWtpeghSIVGFAMYFTY--DPWIGKLLYEDFFMSDYRGFIISEILKNSQVAMRCRCSsmHFLAEWNEPSINEKRRASDLSseeGwrlfkikeyl kmat-----lgerieie  Ilggakiwevaygfdlgghkw</p>
482	1wk4A (174)	C	24.10	<p><b>TM-align:</b> aliSize=141 (resi) RMSD=2.54 (Å)  VRIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw-  enlyfghmtLEIRPVPAAEQILAFIIEAD-LAD-YE--A---RHEVV--TDVEGIRRSIFAEG-SPTALMCLSE--RPIIYAVFYSY--STWLGgrNGIYEDLYTIEYRGVAGRRRLRELAEAVANDCRLEWSDWNQPAIDYRSIGALPQDewvryrldgealrkmae-----ldg  -----  ealrkmae</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=3.59 (Å)  v--RIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  -enlyfghmtLEIRPVPAAEQILAFIIEAD-LAD-YE--A---RHEVV--TDVEGIRRSIFAEG-SPTALMCLSE--RPIIYAVFYSY--STWLGgrNGIYEDLYTIEYRGVAGRRRLRELAEAVANDCRLEWSDWNQPAIDYRSIGALPQDewvryrldgealrkmae-----lgerieie  klwevaygfdlgghkw</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=21.08% (35/166) simi=28.31% (47/166)  vriirragledlpgvarvlvtwratyrgvpeafleglsyegqaerwaorktptwgrflvfaesessgfvvgfaafgpdraSGFPYTAELWAIVLPTWOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  -----enlyfghmtleirpavpadaeqilafiieladyerarhevvtvegirrsifaegsPTALMCLSE--RPIIYAVFYSYSTWLGgrNGIYEDLYTIEYRGVAGRRRLRELAEAVANDCRLEWSDWNQPAIDYRSIGALPQDewvryrldgealrkmae-----lgerieie  PKGRGFYEHLCGVLLGE-REIElGGakIwevaygfdlgghkw  QPAIDYRSIGALPQDewvryrldgealrkmae-----</p> <p><b>Proposed:</b> aliSize=148 (resi) RMSD=2.13 (Å)  VRIRRAGLELPGVARVLDtwratYRgVvPeaflegLSyEGOARWAORLkTPTWPGRFLVFAESesGfVVGFAAFGPDRAsgf-PGYTAELWAIVLPTwOrkGLGRAIFHEGARLLOAEYGR-LVWVWLNPKGRGFYEHLCGV-L-GEREIElGGakIwevaygfdlgghkw  enlyfghmtLEIRPVPAAEQILAFIIEAD-LAD-YE--A---RHEVV--TDVEGIRRSIFAEG-SPTALMCLSE--RPIIYAVFYSY--STWLGgrNGIYEDLYTIEYRGVAGRRRLRELAEAVANDCRLEWSDWNQPAIDYRSIGALPQDewvryrldgealrkmae-----lgerieie  klwevaygfdlgghkw</p>
	2f7B (166)			

483	1wk4A (174)  2g3tA (169)	C	13.61  <p><b>TM-align:</b> aliSize=142 (resi) RMSD=2.46 (Å)  -VRTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw---  kFVLRPATAACSDILRLIKELAKY-EY--ME--E--QVI--LTEKDLEEDGFGEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTY--DPWIGKLLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegWRLFK-----idk</p> <p>-----  eyllkmatee</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=4.08 (Å)  v--RTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  -kfVLRPATAACSDILRLIKELAKY-EY--MEEQV-----I--TEKDLEEDGF-----GEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTYDPWIGKLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegwrIfkidkeyllkmatee-----iereiel</p> <p><b>ggaklwevaygfdlgghkw</b></p> <p><b>BLAST:</b> aliSize=56 (resi) iden=17.75% (30/169) simi=33.14% (56/169)  vr---RTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  --kfVLRPATAACSDILRLIKELAKY-EY--MEEQV-----I--TEKDLEEDGF-----GEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTYDPWIGKLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegwrIfkidkeyllkmatee-----idk</p> <p>fdlgghkw</p> <p><b>Proposed:</b> aliSize=154 (resi) RMSD=2.30 (Å)  -VRTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGF-PG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  kFVLRPATAACSDILRLIKELAKY-EY--M--E--QVI--LTEKDLEEDGFGEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTY--DpWIGKLLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLS---S--EEGWRLFKIDkeyLLkMA--TEE</p>
484	1wk4A (174)  2g3tB (168)	C	13.69  <p><b>TM-align:</b> aliSize=142 (resi) RMSD=2.41 (Å)  -VRTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw---  kFVLRPATAACSDILRLIKELAKY-EY--ME--E--QVI--LTEKDLEEDGFGEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTY--DPWIGKLLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegWRLFK-----idk</p> <p>-----  eyllkmate</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=4.06 (Å)  v--RTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  -kfVLRPATAACSDILRLIKELAKY-EY--MEEQV-----I--TEKDLEEDGF-----GEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTYDPWIGKLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegwrIfkidkeyllkmatee-----iereiel</p> <p><b>ggaklwevaygfdlgghkw</b></p> <p><b>BLAST:</b> aliSize=56 (resi) iden=17.86% (30/168) simi=33.33% (56/168)  vr---RTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  --kfVLRPATAACSDILRLIKELAKY-EY--MEEQV-----I--TEKDLEEDGF-----GEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTYDPWIGKLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegwrIfkidkeyllkmatee-----idk</p> <p>dlgghkw</p> <p><b>Proposed:</b> aliSize=152 (resi) RMSD=2.22 (Å)  -VRTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTW-pGRFLVAESES--G-----EYVGFAAFgPDRasGF-PG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  kFVLRPATAACSDILRLIKELAKY-EY--M--E--QVI--LTEKDLEEDGFGEHPf-YHCLVAEVPKehWtpeghSIVGFAMYFYTY--DpWIGKLLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLS---S--EEGWRLFKIDkeyLLkMA--T-E</p>
485	1wk4A (174)  2jevA (169)	C	14.79  <p><b>TM-align:</b> aliSize=142 (resi) RMSD=2.52 (Å)  --VRTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw--  akFVLRPATAACSDILRLIKELAKY-EY--ME--E--QVI--LTEKDLEEDGFGEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTY--DPWIGKLLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegWRLFK-----idk</p> <p>-----  keyllkmate</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=4.93 (Å)  v--RTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  -akFVLRPATAACSDILRLIKELAKY-EY--MEEQV-----I--TEKDLEEDGF-----GEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTYDPWIGKLYLEDF-----FVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegwrIfkidkeyllkmatee-----iereiel</p> <p><b>ggaklwevaygfdlgghkw</b></p> <p><b>BLAST:</b> aliSize=56 (resi) iden=17.75% (30/169) simi=33.14% (56/169)  vr---RTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTWPGRFLVAESES--G-----EYVGFAAFgPDRasGFPG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  --akFVLRPATAACSDILRLIKELAKY-EY--MEEQV-----I--TEKDLEEDGF-----GEHPFYHCLVAEVPKehWtpeghSIVGFAMYFYTYDPWIGKLYLEDF-----FVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLSscegwrIfkidkeyllkmatee-----idk</p> <p>fdlgghkw</p> <p><b>Proposed:</b> aliSize=152 (resi) RMSD=2.21 (Å)  --VRTRRNGLELPGVARVLDVTRAtYRgvVPeaFleGLSYeGOAERWAORLKTPTW-pGRFLVAESES--G-----EYVGFAAFgPDRasGF-PG-YTAEIWAITYLPTWORKILRALFHEGARLLOAEGYGR-LVWVWLNPKGRGFYEHLGVLG-----EREIEIlggaklwevaygfdlgghkw  akFVLRPATAACSDILRLIKELAKY-EY--M--E--QVI--LTEKDLEEDGFGEHPf-YHCLVAEVPKehWtpeghSIVGFAMYFYTY--DpWIGKLLYEDFFVMSDYRGFITSEILKNLSQVAMRCRCSSmHFLAEWNEPSINFKRRASDLS---S-----EEGWRLFKID-KEYllkMate</p>

486	<p>1wk4A (174)</p> <p>2vbqA (147)</p>	C	17.01	<p><b>TM-align:</b> aliSize=137 (resi) RMSD=2.14 (Å)  --VRTFRAGLEDIPGVARVLVDIWratyrgvvpeafLeLSyEGQAERWAORLKTpWPGRLVVAESEsEVVGFPAFGPD-RASG-FPGY-TAEWAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw----  shMDIRQMNKTHIEHWRGLRKQLV-----P-HP-DDAHLADGEEILQA-DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFRQRQVAKQIAAVQWGTNKCRESASDTSPENTISQKVHQAIGFEETERVIFY-----rkrc</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=4.58 (Å)  v---RFRAGLEDIPGVARVLVDIWratyrgvvPEAFlegLSyEGQAERWAORLKTPTWPGRLVVAESEsEVVGFPAFGPDRAsgFPYTAE----WAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw  -shMDIRQMNKTHIEHWRGLR-----KQLWPGHDDAH---LADGEI-----LQADHLASFIAMADGVAIGFADASIRHD-YVNCDSspvVfEGIFVLPFRQRQVAKQIAAVQWGTNKCRESASDTSPENTISQKVHQAIGFEETERVIFYRkr-----</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=14.29% (21/147) simi=27.21% (40/147)  vriirragledlpgvarvlvdtwratyrgvvpeafleglsyegqaerwaqrkktptwpgrl-----shmdirqmnkthlehwrglrkqlwpghpddahladgeeilqadhlasFVAESEsEVVGFPAFGPDRAsgFPYTAE----WAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw  -----gvlgereieIggaklwevaygfdlgghkw  QALGfeetervifyrkr-----</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=2.01 (Å)  --VRTFRAGLEDIPGVARVLVDIWratyrgvvpeafLeLSyEGQAERWAORLKTpWPGRLVVAESEsEVVGFPAFGPD-RASG-FPGY-TAEWAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw  shMDIRQMNKTHIEHWRGLRKQLV-----P-HPDDAHLADGEEILQA---DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFRQRQVAKQIAAVQWGTNKCRESASDTSPENTISQKVHQAIGFEETERVIFYRKR-----KRC</p>
487	<p>1wk4A (174)</p> <p>2vbqB (144)</p>	C	16.67	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.03 (Å)  vRFRAGLEDIPGVARVLVDIWratyrgvvpeafLeLSyEGQAERWAORLKTpWPGRLVVAESEsEVVGFPAFGPD-RASG-FPGY-TAEWAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw----  -DIRQMNKTHIEHWRGLRKQLV-----P-HP-DDAHLADGEEILQA-DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFRQRQVAKQIAAVQWGTNKCRESASDTSPENTISQKVHQAIGFEETERVIFY-----rkrc</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=3.12 (Å)  vRFRAGLEDIPGVARVLVDIWratyrgvvPEAFlegLSyEGQAERWAORLKTPTWPGRLVVAESEsEVVGFPAFGPDRAsgFPYTAE----WAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw  --dIRQMNKTHIEHWRGLRKQLV-----WPG---HPDDAHLADGEEILQADHL--ASFIAMAD-GVAIGFADASIRHD-YVNCDSspvVfEGIFVLPFRQRQVAKQIAAVQWGTNKCRESASDTSPENTISQKVHQAIGFEETERVIFYRkr-----</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=14.58% (21/144) simi=27.78% (40/144)  vriirragledlpgvarvlvdtwratyrgvvpeafleglsyegqaerwaqrkktptwpgrl-----diirqmnkthlehwrglrkqlwpghpddahladgeeilqadhlasFVAESEsEVVGFPAFGPDRAsgFPYTAE----WAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw  -----gvlgereieIggaklwevaygfdlgghkw  feetervifyrkr-----</p> <p><b>Proposed:</b> aliSize=141 (resi) RMSD=1.86 (Å)  vRFRAGLEDIPGVARVLVDIWratyrgvvpeafLeLSyEGQAERWAORLKTpWPGRLVVAESEsEVVGFPAFGPD-RASG-FPGYTA-EWAIYVLPWORKLGRAIFHEGARLLOAEYGR-LVWVLEPKGRGFYEHGCVLLGEREIEIggaklwevaygfdlgghkw  -DIRQMNKTHIEHWRGLRKQLV-----G---HPDDAHLADGEEILQA---DHLASFIAMAD-GVAIGFADASIRhDYVNgCDSSpVVFEGIFVLPFRQRQVAKQIAAVQWGTNKCRESASDTSPENTISQKVHQAIGFEETERVIFYRKR-----</p>
488	<p>1wwaX (105)</p> <p>2dm2A (110)</p>	N	18.10	<p><b>TM-align:</b> aliSize=82 (resi) RMSD=2.37 (Å)  vsfpasvqlhtavc-----MHHWCIPFSVDCQAFSLRFLFNGLSVLNE-TSFIETEFLEPaanevrHGCRRLNQPfHVNNNGNYLLAANFFQASASIMAAfMDNPFefn-----  -----gssgsgapffemklkhykifegmpvtftcrVACNKKPKIYFKDKQISPKSDHYTIQRDL-----GTCSLHTTASLLDDGNYSIMAANPQRISCTGRMLVQAVNS--gpssg</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=13.32 (Å)  vsf-----PASV---QLHTAVEMHHWCIPFSVDCQAFSLRFLFNGLSVLNE-TSFIETEFLEPaanevrHGCRRLNQPfHVNNNGNYLLAANFFQASASIMAA---FMDN----pfefn  ---gssgsgAPPFemklkhykifegmpvtftcrVACNKKPKIYFKDKQISPKSDHYTIQRDL-----TCSLHTTASLLDDGNYSIMAANPQRISCTGRMLVqavNSgpssg-----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=20.95% (22/105) simi=34.29% (36/105)  vsfpasvqlhtavemhhwcipfs-----VDCQAFSLRFLFNGLSVLNETSFIETEFLEPaanevrhgC-RRLNQPfHVNNNGNYLLAANFFQASAS-----imaafmdnPFefn  -----gssgsgapffemklkhykifegmpvtftcrVACNKKPKIYFKDKQISPKSDHYTIQRDL-----GTCSLHTTASLLDDGNYSIMAANPQRISCTgrlmvqavnsgpsg-----</p> <p><b>Proposed:</b> aliSize=90 (resi) RMSD=1.94 (Å)  v---SFP-ASVQ--LHTAVEMHHWCIPFSVDCQAFSLRFLFNGLSVLNE-TSFIETEFLEPaanevrHGCRRLNQPfHVNNNGNYLLAANFFQASASIMAAfMDN--P----fefn  -gssGSSgAPPFemklkhykifegmp--VFTFTCRVACNKKPKIYFKDKQISPKSDHYTIQRDL-----GTCSLHTTASLLDDGNYSIMAANPQRISCTGRMLVQAVNSgpssg----</p>

489	<p>1wwaX (105)</p> <p>2i26O (117)</p>	N	9.52	<p><b>TM-align:</b> aliSize=82 (resi) RMSD=2.49 (Å)  vsfpasvqlhtav-----MHHCIPFSVD--GQPAPSLRWLFN-----GVLNETSFIFTEFLPaanetVRHGCLRLNQP HVNNGNYTLAANP-----FG--Q-ASA-SIMAAfMDNPFefn---  -----rvdqtpqtitketGESLTINCVLRdsNCALSSTY YRKKsgstnEESISKGGRYVETVNSG-----SKSFSLRINDLVEDSGTYRCKPESRygsydaeCAalNdQYGGTVVT-VNAAA---hhh</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=13.44 (Å)  v---SFASVQLHTAVEMHHCIPF--VDGQPAPSLRWLFN-----SVLNETSFIFTEFLPaanetVRHGCLRLNQP HVNNGNYTLAANP-----pfgqasasimaa fmdn p f e f n  -rvdQTQTITKETGESLTINCVLRdsNCALSSTY YRKKsgstnEESISKGGRYVETVN---SGSKSFSLRINDLVEDSGTYRCKPESRygsydaeCaalndqygggtvvtvnaaahhh-----</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=17.14% (18/105) simi=25.71% (27/105)  vsfpasvqlhtavemhwcipfsvdgqapapslrwlfn-----GVLNETSFIFTEFLPaanetVRHGCLRLNQP HVNNGNYTLAANPFGQASASIMAAfMDNPFefn-----npfefn  -----rvdqtpqtitketgesltincvlrdsncalsstywyrrksgstnEESISKGGRYVETVNSGSKSFSLRINDLVEDSGTYRCKPESRygsydaeCaalNdQYGGTVVT-VNAAA---hhh-----</p> <p><b>Proposed:</b> aliSize=92 (resi) RMSD=2.18 (Å)  vsfPAsVQ-LHTAVEMHHCIPFSV--DGQPAPSLRWLFN-----GVLNETSFIFTEFL-ePaanetVRHGCLRLNQP HVNNGNYTLAANP-----FG--Q-ASASIMAAfMDnPF----efn  ---RVDQTpQTITKETGESLTINCVLRdsNCALSSTY YRKKsgstnEESISKGGRYVETVNs-G-----SKSFSLRINDLVEDSGTYRCKPESRygsydaeCAalNdQYGGTVVTN-AAahhh---</p>
490	<p>1wwaX (105)</p> <p>2i26P (114)</p>	N	8.57	<p><b>TM-align:</b> aliSize=74 (resi) RMSD=3.86 (Å)  vsfpasvqlhta vem-----HHWCIPFSVDG-----Q-PAPSLRWLFnG--S--VLNETsf--IFTEFLPaANETVRHGCLRLNqPthvNNGNYTLAAN-----PFGQASASIMAAfMDNpfe fn  -----rvdqtpqtitketGESLTINCVLRdsncalSsTYWYRKK--Sg--tnEESIS--kgGRYVET-VNSGSKSFSLRIND--L---TVEDSGTYRCKpes rygsydaeCaalNdQYGGTVVTN-AA-----</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=13.35 (Å)  v---SFASVQLHT-AVEMHHCIPF--VDGQPAPSLRWLFN-----SVLNETSFIFTEFLPaanetvrHGCLRLNQP HVNNGNYTLAANP-----pfgqasasimaa fmdn p f e f n  -rvdQTQTITKETGESLTINCVLRdsNCALSSTY YRKKsgstnEESISKGGRYVETVNSGSK-----SFSLRINDLVEDSGTYRCKPESRygsydaeCaalndqygggtvvtvnaaa-----</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=17.14% (18/105) simi=25.71% (27/105)  vsfpasvqlhta vemhwcipfsvdgqapapslrwlfn-----GVLNETSFIFTEFLPaanetVRHGCLRLNQP HVNNGNYTLAANPFGQASASIMAAfMDNPFefn-----npfefn  -----rvdqtpqtitketgesltincvlrdsncalsstywyrrksgstnEESISKGGRYVETVNSGSKSFSLRINDLVEDSGTYRCKPESRygsydaeCaalNdQYGGTVVT-VNAAA-----</p> <p><b>Proposed:</b> aliSize=90 (resi) RMSD=2.23 (Å)  vSFPAS-VQLHTAVem-hhWCIPFSV--DGQPAPSLRWLFN-----GVLNETSFIFTEFL-ePaanetVRHGCLRLNQP HVNNGNYTLAANP-----FG-Q-ASA-SIMAAfMDnPF-efn  -RVDQTpQTITKET-Ges--LITINCVLRdsNCALSSTY YRKKsgstnEESISKGGRYVETVNs-G-----SKSFSLRINDLVEDSGTYRCKPESRygsydaeCAalNdQYGGTVVT-VN-AAa---</p>
491	<p>1wwbX (103)</p> <p>lhngA (175)</p>	N	10.68	<p><b>TM-align:</b> aliSize=76 (resi) RMSD=2.45 (Å)  vhfaptitflespts-----DHHWCIPF--TVKGNPKPALOWFYNGAILN-----E-SKYICTKHvtnhteyHFCOLDNPTHMNNDYTLIAKNEY-GK-DEKQISAHFMGwp-----Gid-----  -----dsgtvwgalgGINLInpnFQMTDDIDEVRERGSTLVAefkrkmpfLkSGAFEILA-----NDKIKLNRDSDTYNVTYVYSTNgTriLNALDLRILE--mvs k p m i y e c s n a t l t c e v l e g T --d v e l k l y q g k e h l r s l r q k t m s y q w t n l r a p f c k a v n r v s</p> <p>-----  qesemevvnpe</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=17.35 (Å)  vhfaptitflespts-----DHHWCIPFTVKGNPKPALOWFY--NGAILN-SKYIC-TKTHVTHNTYHGC---OLDNPTHMNNDYTLIAKNEYGKDEKQISahfm  -----dsgtvwgalgGINLInpnfQMTDDIDEVRERGSTlvaefkrkmpfLksgafeilangdikiknltrdsgtyntvystngtriLNKALDLRILEM-VSKPMIYWEcsNATLTCVLEGTdVELKLYQKHLRSrqtTMSYQWTNLRAPFKCKVNRVVSQSESEMEV-----</p> <p>GWPG-id  VNCPe--</p> <p><b>BLAST:</b> aliSize=23 (resi) iden=10.68% (11/103) simi=22.33% (23/103)  vhfaptitflesptsdhwcipftvkgnpkpa-----LOWFYNGAILN-SKYICTKHVTHNTY--HFCOLDNPTHMNNDYTLIAKNEY-----  -----dsgtvwgalgGINLInpnfQMTDDIDEVRERGSTLVAefkrkmpfLkSGAFEILANDKIKLNRDSDTYNVTYVYSTNtrinkaldlrilemvs k p m i y e c s n a t l t c e v l e g t d v e l k l y q g k e h l r s l r q k t m s y q w t n l r a p f c k a</p> <p>-----kdekqisahfmwpggid  vnrvsqesemevvnpe-----</p> <p><b>Proposed:</b> aliSize=84 (resi) RMSD=2.15 (Å)  vhfaptitflesptsdhwcipf--TVKGNPKPALOWFYNGAILN-----E-SKYICTKHvtnhteyHFCOLDNPTHMNNDYTLIAKNEY-GK-DEKQISAHFMG-----w  --DSGTV-WGA-LG--GINLInpnFQMTDDIDEVRERGSTLVAefkrkmpfLkSGAFEILA-----N-DKIKLNRDSDTYNVTYVYSTNgTriLNALDLRILEmvs k p m i y e c s n a t l t c e v l e g t d v e l k l y q g k e h l r s l r q k t m s y q w t n l r a p f c k a v n r v s q e s e m e v v n p e -  pgid  -----</p>

492	<p>1wwbX (103)</p> <p>lie5A (107)</p>	N	13.59	<p><b>TM-align:</b> aliSize=78 (resi) RMSD=2.40 (Å)  vhfaptitflespt-----SDHWCIPFTVKGNPKPALQWFYNGAILN---ESKYICTKIhvtnthtEYHGCQLDNPHTMNGDYTLIAKNEYKDEKQISAHfMGWpGid  -----gkdiqivnvppsvrarqstmnatanLSQSVTLACDADCFPEPTMTITKDEPIEQEDNEEKYSFNY-----DGSELIKKVDKSDEAEICIAENKAGEODATHLK-VFA-K--</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=16.18 (Å)  vhfaptit-----FLESPTSDHWCIPFTVKGNPKPALQWFYNGAILNesKYIctkihvTNHTEYHGC---QLDNPHTMNGDYTLIAKNEYKDEKQISA-----hfmwpgid  -----gkdiqivNVNPSVRArqs tmnatanlsqSVTLACDADCFPEPTMTITKDEPIEQED---NEEKYSFNYdgselIKKVDKSDEAEICIAENKAGEODATHLkvfak-----</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=17.48% (18/103) simi=28.16% (29/103)  vhfaptitflesptsdhwcipftvk-----GNPKPALQWFYNGAILN---ESKYictkihvtnhtEYHGCQLDNPHTMNGDYTLIAKNEYKDEKQI-----sahfmwpgid  -----gkdiqivnvppsvrarqstmnatanlsqsvtlacdadcFPEPTMTITKDEPIEQEDNEEKY-----SFNYDGSelIKKVDKSDEAEICIAENKAGEODATHLkvfak-----</p> <p><b>Proposed:</b> aliSize=90 (resi) RMSD=2.04 (Å)  --V-----HFAPITtFL-ESPTSD---HWCIPFTVKGNPKPALQWFYNGAILN---ESKYICTKIhvtnthtEYHGCQLDNPHTMNGDYTLIAKNEYKDEKQISAHfMGW-pgid  gkDiqivNVNPSV-RARQSTMNAtanlsqSVTLACDADCFPEPTMTITKDEPIEQEDNEEKYSFNY-----DGSELIKKVDKSDEAEICIAENKAGEODATHLK-VFAK----</p>
493	<p>1wwbX (103)</p> <p>1kxqE (120)</p>	N	9.71	<p><b>TM-align:</b> aliSize=77 (resi) RMSD=2.40 (Å)  vhfaptitflespts-----DHHWCIPFTVKGNPKPALQWFYNGAILN-----E---SKYICTKIHVtnthtEYHGCQLDNPHTMNGDYTLIAKNEY-----GKDEK-QISAHfMGWpGid  -----qvqlvesgggsvqaggsLSLSCAAsTY--TDTVGRQapgkeregVAaiyrrtgytySadsvKGRFTLSQDNN---KNTVYLQMNLSLKPEDTGIYCATGNS-vrlaswegYFYWGqGTQVT-VS-S---</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=17.34 (Å)  v--HFAPITtFLESPTSDHWCIPFTVKGNPKPALQWFYNGAILNesKYICTKIHVtnthtEYHGCQLDNPHTMNGDYTLIAKNEY-----neykdekqisahfmwpgid  -qvQLVESGGGSVQAgGSLSLSCAAsTY--TDTVGRQapgkeregVAaiyrrtgytySADSvKGRFTLSQDNNKNTVYLQMNLSLKPEDTGIYCATGNSvrlaswegyfywqgtqvtvss-----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=6.80% (7/103) simi=7.77% (8/103)  vhfaptitflesptsdhhwc-----PFTVKGNPKPALQWFYNGAILN-----ailneskyictkihvtnhteyhgclqldnphmngdytliakneygkde  -----qvqlvesgggsvqaggsLSLSCAAsTY--TDTVGRQapgkeregVAaiyrrtgytySadsvKGRFTLSQDNNKNTVYLQMNLSLKPEDTGIYCATGNSvrlaswegyfywqgtqvtvss-----</p> <p>kqisahfmwpgid  -----</p> <p><b>Proposed:</b> aliSize=88 (resi) RMSD=2.06 (Å)  vhfaptitflesptsdhhwc-----PFTVKGNPKPALQWFYNGAILN-----E---SKYICTKIHVtnthtEYHGCQLDNPHTMNGDYTLIAKNEY-----eykdekqisahfmwpgid  -qvQLVESGGGSVQAgGSLSLSCAAsTY--TDTVGRQapgkeregVAaiyrrtgytySadsvKGRFTLSQDNNKNTVYLQMNLSLKPEDTGIYCATGNSvrlaswegyfywqgtqvtvss-----</p>
494	<p>1wwbX (103)</p> <p>1sq2N (112)</p>	N	7.77	<p><b>TM-align:</b> aliSize=79 (resi) RMSD=2.55 (Å)  vhfaptitflespts-----DHHWCIPFTVKGNPKPALQWFYNGAILNESKYICTKIhvtnthtEYHGCQLDNPHTMNGDYTLIAKNEY-----YKDEK-QISAHfMGWpGid  -----rvdqtpsvtketgesLTINCVLRdAsYALGSTCWRKKSgegneEESISKGGRYVETV--NSG-SKFSLRINDLVEDGTYRCGLGVaggycdyalcssRYAECGdGTAVTVN-----</p> <p><b>SARST:</b> aliSize=84 (resi) RMSD=8.09 (Å)  vhfaptit-----FLESPTSDHWCIPFTVKGNPKPALQWFYNGAILNESKYICTKIhvtnthtEYHGCQLDNPHTMNGDYTLIAKNEY-----EYKDEK-QISAH-fmwpgid  -----rvdqtpsvtketgesLTINCVLRdAsYALGSTCWRKKSgegneEESISKGGRYVETV--NSG-SKFSLRINDLVEDGTYRCGLGVaggycdyalcssRYAECGdGTAVTVN-----</p> <p><b>BLAST:</b> aliSize=2 (resi) iden=1.94% (2/103) simi=1.94% (2/103)  vhfaptitflesptsdhhwcipftvkgnpkpalqwfynghail-----rvdqtpsvtketgesLTINCVLRdAsYALGSTCWRKKSgegneEESISKGGRYVETV--NSG-SKFSLRINDLVEDGTYRCGLGVaggycdyalcssRYAECGdGTAVTVN-----skyictkihvtnhteyhgclqldnphmngdytli  -----akneygkdekqisahfmwpgid</p> <p><b>Proposed:</b> aliSize=87 (resi) RMSD=2.29 (Å)  vhfaptitflesptsdhhwc-----PFTVKGNPKPALQWFYNGAILNESKYICTKIhvtnthtEYHGCQLDNPHTMNGDYTLIAKNEY-----eykdekqisahfmwpgid  -rvdqtpsvtketgesLTINCVLRdAsYALGSTCWRKKSgegneEESISKGGRYVETV--NSG-SKFSLRINDLVEDGTYRCGLGVaggycdyalcssRYAECGdGTAVTVN-----</p>

495	<p>1wwbX (103)</p> <hr/> <p>2aw2A (110)</p>	N	13.59	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.54 (Å)  vhfaptitflespts-----DHHWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEK-QISAHfMGW-PGId---  -----cdvqlyikrqsehsilaGDPFELECPVYcANRPHVTWCKLNgTTCVKLED-R-QISWKEEKN-ISFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLyVTDVkhHH-hhh</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=12.71 (Å)  vhf-----APTITFLESPTSDDHWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  ---cdvqlyiKROSEHSILAGDPFELECPVYcANRPHVTWCKLNgTTCVKLEDROT-SW-KEEKNISSFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLyvtDvkhhhhhh-----</p> <p><b>BLAST:</b> aliSize=15 (resi) iden=7.77% (8/103) simi=14.56% (15/103)  vhfaptitflesptsdhhwcipftvkgnpkpalqwfynGAILNESKYICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  -----cdvqlyikrqsehsilaGDPFELECPVYcANRPHVTWCKLNgTTCVKLEDROT-SW-KEEKNISSFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLyvtDvkhhhhhh-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=2.25 (Å)  VHFAPTIT--FLESPTSDDHWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEK-QISAHfMGW--PG----id  CDVQLYIKRqSEHSILAGDPFELECPVYcANRPHVTWCKLNgTTCVKLED-R-QISWKEEKN-ISFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLy-VTDVkhHHhhhh--</p>
496	<p>1wwbX (103)</p> <hr/> <p>2aw2X (107)</p>	N	13.59	<p><b>TM-align:</b> aliSize=81 (resi) RMSD=2.27 (Å)  vhfaptitflespts-----DHHWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEK-QISAHfMGWPgid----  -----cdvqlyikrqsehsilaGDPFELECPVYcANRPHVTWCKLNgTTCVKLED--RQISWKEEKN-ISFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLyVTDV---khh</p> <p><b>SARST:</b> aliSize=64 (resi) RMSD=9.47 (Å)  vhfaptitflesptsdhhwcip-FVKG-NPKPALQWFYNGAILNESKYICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  -----cdVQLYIKROSEHSILAGDPFELECPVYcANRPHVTWCKLNgTTCVKLEDROT-SW-KEEKNISSFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLyvtDvkhhhh-----</p> <p><b>BLAST:</b> aliSize=15 (resi) iden=7.77% (8/103) simi=14.56% (15/103)  vhfaptitflesptsdhhwcipftvkgnpkpalqwfynGAILNESKYICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  -----cdvqlyikrqsehsilaGDPFELECPVYcANRPHVTWCKLNgTTCVKLEDROT-SW-KEEKNISSFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLyvtDvkhhhh-----</p> <p><b>Proposed:</b> aliSize=95 (resi) RMSD=2.14 (Å)  VHFAPTIT--FLESPTSDDHWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEK-QISAHfMGWP----gid  CDVQLYIKRqSEHSILAGDPFELECPVYcANRPHVTWCKLNgTTCVKLED--RQISWKEEKN-ISFFILHFEVPLPNDNGSRCSANFQSNLIESHSTTLy-VTDVkhHHhh--</p>
497	<p>1wwbX (103)</p> <hr/> <p>2cdeA (192)</p>	N	6.80	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.49 (Å)  vhfaptitflespts-----DHHWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEK-QISAHfMGW-PGId---P  -----nqveqspqslillegkncTLQcnytvspfnlRyKQdgrGVPVSLTImtfsentksNGRYTATL-DAD-TKOSSLHTASQLSDSASYICVVSdrgstlGRlyfgrgtqlTWVWPDlQkdpavyqlrdskssdksvclftdfdsqtnvsqskdsdvyitdktvldmrsmdfk  GID-----  SNsawasnksdfacanafnn</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=12.79 (Å)  vhfaptitflesptsd-HHWWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  -----nQVEQSPQSLIILEGKNC TLQcnytvspfnlRyKQdgrGVPVSLTImtfsentksNGRYTATL-DAD-TKOSSLHTASQLSDSASYICVVSdrgstlGRlyfgrgtqlTWVWPDlQkdpavyqlrdskssdksvclftdfdsqtnvsqskdsdvyitdktvldmrsmdfksns</p> <p>-----id  avawsnksdfacanafnn--</p> <p><b>BLAST:</b> aliSize=17 (resi) iden=11.65% (12/103) simi=16.50% (17/103)  vhfaptitflesptsd-HHWWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  -----nqveqspqslillegkncTLQcnytvspfnlRyKQdgrGVPVSLTImtfsentksNGRYTATL-DAD-TKOSSLHTASQLSDSASYICVVSdrgstlGRlyfgrgtqlTWVWPDlQkdpavyqlrdskssdksvclftdfdsqtnvsqskdsdvyitdktvldmrsmdfksnsavaw</p> <p>-----gclqldnpthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  snksdfacanafnn-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=2.42 (Å)  VHFAPTITFLESPTSd-HHWWCIPFTVKG-NPKPALQWFY---GAILNESkyICTKIHVtNHtEYHGCLDNPthmngdyTLIAKNEYGKDEKQISA-----hfmwpgid  -NQVEQSPQSLIILEGKNC TLQcnytvspfnlRyKQdgrGVPVSLTImtfsentksNGRYTATL-DAD-TKOSSLHTASQLSDSASYICVVSdrgstlGRlyfgrgtqlTWVWPDlQkdpavyqlrdskssdksvclftdfdsqtnvsqskdsdvyitdktvldmrsmdfksnsavawsnksdf  -----  acanafnn</p>

498	1wwbX (103)	N	6.80	<p><b>TM-align:</b> aliSize=83 (resi) RMSD=2.56 (Å)  vhfaptitflespts-----DHHWCIPFTV--KGNPKPALOWFYN-----GAILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE-----YG--K-DEKQISAHFMGwPGId  -----rvdqtpqitike<b>tGESL</b>TINCVLrdSNCALSSTYRKRksgstnEESI<b>SKGGRYVETV</b>-NS-G-SKSFSLRINDLIVEDSSTIRCKPESRygsydaeCAalNdQYGGGTVVTVN-AAA-</p> <p><b>SARST:</b> aliSize=75 (resi) RMSD=16.28 (Å)  v---HFAPITITFLESPTS<b>DHHWCIP</b>-----FTVKGKPKPALOWFYngaILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE-----eygkdekqisahfmwpgid  -rvdQTPQITITKET<b>GESL</b>TINCVLRdsncalssTYWRKKS<b>SGSTNEE</b>---SISKGGRYVETV--<b>VNSGS</b>-KSFSLRINDLIVEDSSTIRCKPESRygsydaeCaalndqygggtvvtvnaa-----</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=10.68% (11/103) simi=23.30% (24/103)  vhfaptitflespts<b>dhhw</b>cipftvkgnpkpalq-----FYNGAILNESKYI--CTKIHVTNHTEYHGCQLDNPThMNNCDYTLIAKNE<b>YKDEKQISA</b>-----hfmwpgid  -----rvdqtpqitike<b>tgesl</b>tincvlrdsncalssTYWRKKS<b>SGSTNEE</b>SISKGGRYVETV<b>SGSKSFS</b>LRINDLIVEDSSTIRCKPESR<b>YGSYDAECA</b>alndqygggtvvtvnaa-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=2.21 (Å)  vhfAPITITFLESPTS<b>dh-hwCIPFTV</b>--KGNPKPALOWFYN-----GAILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE-----YG--K-DEKQISAHFMGwPG-id  ---RVDQTPQITITKET<b>GESL</b>TINCVLRdsncalssTYWRKKS<b>SGSTNEE</b>SISKGGRYVETV<b>NSGS</b>-KSFSLRINDLIVEDSSTIRCKPESRygsydaeCAalNdQYGGGTVVTVN-AAA--</p>
499	1wwbX (103)	N	10.68	<p><b>TM-align:</b> aliSize=81 (resi) RMSD=2.44 (Å)  vhfaptitflespts-----DHHWCIPFTV--KGNPKPALOWFYN-----GAILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE--YKDEK-QISAHFMGwPGId  -----esvltpqpsas<b>gtpGORVT</b>SCIGSaTDiGSNSVIVYQQVpgkaPKLIyyndlLpsgvDRFSASKS-G---TSASLAISGLESEDEADYCAW<b>W</b>NDsIDEPGFggGTLT-VLGQPK-</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=15.69 (Å)  v---HFAPITITFLESPTS<b>DHHWCIP</b>FTV--KGNPKPALOWFYNG--AILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE--YKDE--KQISAH-----fmwpgid  -esvlTQP<b>SASGTPGORVT</b>SCIGSaTDiGSNSVIVYQQVpgkaPKLIyyndlLpsgvDRFSASKS--KSGT---SASLAISGLESEDEADYCAW<b>W</b>NDsIDEPGFggGTLT<b>V</b>lgqpk-----</p> <p><b>BLAST:</b> aliSize=5 (resi) iden=4.85% (5/103) simi=4.85% (5/103)  vhfaptitflespts<b>dhhw</b>cipftvkgnpkpalq-----FYNGAILNESKYI--CTKIHVTNHTEYHGCQLDNPThMNNCDYTLIAKNE<b>YKDEKQISA</b>-----hfmwpgid  -----esvltpqpsas<b>gtpGORVT</b>SCIGSaTDiGSNSVIVYQQVpgkaPKLIyyndlLpsgvDRFSASKS-G---TSASLAISGLESEDEADYCAW<b>W</b>NDsIDEPGFggGTLT<b>V</b>lgqpk-----</p> <p>eygkdekqisahfmwpgid  -----</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=2.24 (Å)  vh--FAPITITFLESPTS<b>dh-hwCIPFTV</b>--KGNPKPALOWFYNG--AILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE--YKDEK-QISAHFMGwPGid  --esVLTQP<b>SASGTPGORVT</b>SCIGSaTDiGSNSVIVYQQVpgkaPKLIyyndlLpsgvDRFSASKS-G---TSASLAISGLESEDEADYCAW<b>W</b>NDsIDEPGFggGTLT<b>V</b>lgqpk--</p>
500	1wwbX (103)	N	8.74	<p><b>TM-align:</b> aliSize=79 (resi) RMSD=2.14 (Å)  vhfaptitflespts-----DHHWCIPFTV--KGNPKPALOWFYN-----GAILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE--YKDEK-QISAHFMGwPGid  -----awwdqprtiti<b>ketGESL</b>TINCVLrdHsCGLSSTTWYRTqlgsInEKTISIGGRYDETVDKG--SKSFSLRISDLRVEDSSTIRCKQADYSPscysyspsleSAVEGaGTVLT-VK----</p> <p><b>SARST:</b> aliSize=77 (resi) RMSD=13.18 (Å)  v---HFAPITITFLESPTS<b>dh-hwCIPFTV</b>--KGNPKPALOWFYNG--AILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE--YKDEK-QISAHFMGwPGid  -awwdQTPR<b>ITKETGESL</b>TINCVLrdHsCGLSSTTWYRTqlgsInEKTISIGGRYDETVDKGSKS--FSLRISDLRVEDSSTIRCKQADYSPscysyspslesavegagtvltvk-----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=4.85% (5/103) simi=7.77% (8/103)  vhfaptitflespts<b>dhhw</b>cipftvkgnpkpalqfyngaILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE<b>YKDEKQISA</b>-----hfmwpgid  -----awwdqprtiti<b>ketgesl</b>tincvlrdhscglsssttwy<b>RTQLGS</b>tNEK<b>TS</b>IGGRYDETVDKGSK<b>S</b>FLRISDLRVEDSSTIRCKQADYSPscysyspslesavegagtvltvk-----</p> <p>--ahfmwpgid  vk-----</p> <p><b>Proposed:</b> aliSize=90 (resi) RMSD=2.15 (Å)  vhFAPITITFLESPTS<b>dh-hwCIPFTV</b>--KGNPKPALOWFYNG--GAILNESKYICTKihVTNhtEYHGCQLDNPThMNNCDYTLIAKNE--YKDEK-QISAHFMGwPGid  -AWVDQTPR<b>ITKETGESL</b>TINCVLrdHsCGLSSTTWYRTqlgsInEKTISIGGRYDETVDKG--SKSFSLRISDLRVEDSSTIRCKQADYSPscysyspsleSAVEGaGTVLT-VK-----</p>

501	<p>1wwbX (103)</p> <hr/> <p>3darA (99)</p>	N	16.16	<p><b>TM-align:</b> aliSize=75 (resi) RMSD=2.08 (Å)  vhfaptitflespts-----DHFWCIPFTVKGNPKALQWFYNGAILNES---KYICTKIHVtnhteyGCLQDNPTHMNGDYTLIAKNEYGKDEKQISAHfMGwpgid  -----krapywntekmekrlhavpaANTVKFRCPAGGNPMTMRWLKNGKEFKQEHRIIGGYKVRNQ-----HWSIMESVVPSDKNYTCVVENEYGSINHXYHLD-VV-----</p> <p><b>SARST:</b> aliSize=87 (resi) RMSD=15.88 (Å)  vh-FAPTITIF-----LESPTSDFHWCIPTVKGNPKALQWFYNGAILN--ESKYICTKIHVtNtEyhGCLQDNPTHMNGDYTLIAKNEYGKDEKQISAH--fmgwpgid  --kRAPHYWNtekmekrLHAVPAANTVKFRCPAGGNPMTMRWLKNGKEFKQEHRIIGGYKVRN--QHW---SIIIMESVVPSDKNYTCVVENEYGSINHXYHLDVv-----</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=19.19% (19/99) simi=29.29% (29/99)  vhfaptitflesptsDHFwcipftvk-----GNPKALQWFYNGAILNESKYICTKIHVtNhteyGCLQDNPTHMNGDYTLIAKNEYG-----kdekqisahfmgwpgid  -----krapywntekmekrlhavpaantvkfrcpagGNPMTMRWLKNGKEFKQEHRI--GGYKVRNQ-----HWSIMESVVPSDKNYTCVVENEYGSinhxyhldv-----</p> <p><b>Proposed:</b> aliSize=88 (resi) RMSD=2.00 (Å)  v-HFAPT--IT-FLE-SPTSDF--HWCIPTVKGNPKALQWFYNGAILNES---KYICTKIHVtnhteyGCLQDNPTHMNGDYTLIAKNEYGKDEKQISAHfMGwpgid  -kRAPHYWNtekmekrLHAVPAANTVKFRCPAGGNPMTMRWLKNGKEFK--QehriGGYKVRNQ-----HWSIMESVVPSDKNYTCVVENEYGSINHXYHLD-VV-----</p>
502	<p>1wwcA (105)</p> <hr/> <p>1a6wL (109)</p>	N	5.71	<p><b>TM-align:</b> aliSize=76 (resi) RMSD=2.50 (Å)  tvyypprvvsllepelr-----LEHCFEFVVR--GNPPPTLHNLHN-----GOP-----RESKI IHVEYYQegeiSEGCLFNKPTHYNNGN TLI AKNPLGT ANO-TINGHFLKefpvd  -----avvtqesal t t spg ET VTL TCRSS Tgav TTSNYANWVQEKpdhIFTG i ggt n n r a p g V P A - R F S G S L I G --- N K A A I T I T G A Q T E D E A I F C A L W Y S N H W F G g G T K L T V L E -----</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=12.06 (Å)  tvyypprvv-----SLLEPELRLEHCFEFVVRG--NPPTLHNLHN-----EFVVRG--NPPTLHNLHN-----GOP-----RESKI IHVEYYQegeiSEGCLFNKPTHYNNGN TLI AKNPLGT ANO---TINGHFLKefpvd  -----avvtqesal t t spg ET VTL TCRSS Tgav t t s n y A N W V Q E K D H L F T G I G G T N N R A P G V P A R F S G S L I G --- I G N --- K A A I T I T G A Q T E D E A I F C A L W Y S N H W F G g g t K L T V L e -----</p> <p><b>BLAST:</b> aliSize=2 (resi) iden=1.90% (2/105) simi=1.90% (2/105)  tvyypprvvsllepelrlehciefvvrngppptlhwlhngqplreski ihveyyqegeisegclfnkpthynnngntliaknplgtanqtinghflkefpv-----avvtqesal t t spg e t v t l t c r s s t g a v t t s n y a n w v q e k p d h l f t g i g g t n n r a p g v p a r f s g s l i g n k a a l t i t g a q t e d e a i y  -----  fcalwysnhwvfgggtklvle</p> <p><b>Proposed:</b> aliSize=89 (resi) RMSD=2.31 (Å)  tvYYPPRVVSLLEPELRLEHCFEFVVRG-----npPPTLHNLHN-----GOP-----R--ESKI IHVEYYQegeiSEGCLFNKPTHYNNGN TLI AKNPLGT ANO-TINGHFLKefpvd  --AVVTQESAL t t spg ET VTL TCRSS Tgav t t - S N Y A N W V Q E K P D H I F T G I G G T N N R A P G V P A R F S G S L I G --- N K A A I T I T G A Q T E D E A I F C A L W Y S N H W F G g G T K L T V L E -----</p>
503	<p>1wwcA (105)</p> <hr/> <p>lhxmA (206)</p>	N	4.76	<p><b>TM-align:</b> aliSize=62 (resi) RMSD=3.39 (Å)  tvyypprvvsllepelr-----LHCFEFVVRGnpPTLHNLHNgqpl--RESKI IH-V  -----aieivpehqtvpsvsgvatlrscmkgeaignyinywrktqntmtfiyrekdigyggfkdnfqgdidiaknlavlkilapserdegssycacdtlmgggytdkligkgrvtveprsqhtkpsvfmkngtnvacLVKEFY--KDIRINIVS-----skk--ITEFDp</p> <p>EYYQEG--EISEGCLFNKPTHYNNGN TLI AKNPLGT ANO-TINGHFLKefpvd---  AIVIS-psGKYNAVKLG--YEDS SVTCSVOHD---NKTVHST-----dfe</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=14.68 (Å)  -aieivpehqtvpsvsgvatlrscmkgeaignyinywrktqntmtfiyrekdigyggfkdnfqgdidiaknlavlkilapserdegssycacdtlmgggytdkligkgrvtveprsqhtkpsvfmkngtnvacLVKEFY--KDIRINIVS-----skk--ITEFDp  -----VYPPR-----VVSLEPELRLEHCFEFVVRG--NPPTLHNLHNGO---PLRESKI IHVEYYQEGEIS-EGCLFNKPTHYNNGN TLI AKN---PLG  TANOTIN-----ghflkefpvd  VTCSVOHdnktvhs t d f e -----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=12.38% (13/105) simi=23.81% (25/105)  tvyypprvvsllepelrlehciefvvrngppptlhwlhngqplreski ihveyyqegeisegclfnkpthynnngntliaknplgtanqtinghflkefpv-----avvtqesal t t spg e t v t l t c r s s t g a v t t s n y a n w v q e k p d h l f t g i g g t n n r a p g v p a r f s g s l i g n k a a l t i t g a q t e d e a i y  -----aieivpehqtvpsvsgvatlrscmkgeaignyinywrktqntmtfiyrekdigyggfkdnfqgdidiaknlavlkilapserdegssycacdtlmgggytdkligkgrvtveprsqhtkpsvfmkngtnvacLVKEFY--KDIRINIVS-----skk--ITEFDp  -----nytliaknplgtanqtinghflkefpvd  gkynavklgkyedsnsvtcsvqhdnktvhs t d f e -----</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=2.45 (Å)  tvYYPPRVVSLLEPELRLEHCFEFVVRG--NPPTLHNLHN-----GOP-----R--ESKI IHVEYYQegeiSEGCLFNKPTHYNNGN TLI AKN-----PL-GTANO-TINGHFLK-----EP-----FP-----  --AIEIVPEHQTVPSVSGVATLRCSMKGEAIG--NYINWYRKtqntMTFIyrekdigyggfkdnfqgdidiaknlavlkilapserdegssycacdtlmgggytdkligkgrvtveprsqhtkpsvfmkngtnvacLVKEFY--KDIRINIVS-----skk--ITEFDp  -----vde  dsvtcsvqhdnktvhs t d f e -----</p>



504	<p>1wwcA (105)</p> <hr/> <p>1sq2N (112)</p>	N	10.48	<p><b>TM-align:</b> aliSize=78 (resi) RMSD=2.45 (Å)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNP-----LGTANQ-TINGHfLkEpfpvde  -----rvdqtprrsvtketESLTLNCLRdAsYALGSTCWRKKSgegnEESI SKGGRYVETV-NSG-SKSFSLRI NDLI VEDGGTYRCGLGVAggycdyalcssRYAECGdGTAVT-VN-----</p> <p><b>SARST:</b> aliSize=84 (resi) RMSD=8.30 (Å)  tvyypprvv-----SLEEP-ELRLEHCIEFVVRG-NPPPTLHHLHN-----OPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKN-----PLGTAN-QINGH-fLkEpfpvde  -----rvdqtprrsvtketESLTLNCLRdAsYALGSTCWRKKSgegnEESI SKGGRYVETV-NSGSKSFSRLRI NDLI VEDGGTYRCGLGVAggycdyalcssRYAECGdGTAVTn-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=5.71% (6/105) simi=8.57% (9/105)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNP-----LGTANQ-TINGHfLkEpfpvde  -----rvdqtprrsvtketESLTLNCLRdAsYALGSTCWRKKSgegnEESI SKGGRYVETV-NSGSKSFSRLRI NDLI VEDGGTYRCGLGVAggycdyalcssRYAECGdGTAVTn-----efvvrngnpptlhwhlhnqplreskiihveyyqgeisegclfnkpthynngnytliaknplgtanqtingh  fLkEpfpvde  -----</p> <p><b>Proposed:</b> aliSize=89 (resi) RMSD=2.11 (Å)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKN-----pLGTANQTINGHFLK Epfpvde  -----RVDQTPrrsvtketESLTLNCLRdAsYALGSTCWRKKSgegnEESI SKGGRYVETV-NSG-SKSFSLRI NDLI VEDGGTYRCGLGVAggycdyalcssRYAECGdGTAVTn-----</p>
505	<p>1wwcA (105)</p> <hr/> <p>2aw2A (110)</p>	N	13.33	<p><b>TM-align:</b> aliSize=78 (resi) RMSD=2.48 (Å)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNPLGTANQ-TINGHFLK E--Pfpvde-----  -----cdvqliykrqsehsilagDPFELECPVKYcANRHVTWCKLngt tCVKLEDR---QTSWKEE-kNLSFFIHFEPVLPNDNGSIRCSANFQSNLIESHSTTLVTD-vkH-----hHHHH</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=7.64 (Å)  tvyypprvv-----SLEPELRL EHCIEFVVRG-NPPPTLHHLHN-----QPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFLKE-----pfpvde  -----cdvqliykrqsehsilagDPFELECPVKYcANRHVTWCKLNGTTCVKLEDRQTSWKEEKNLSFFIHFEPVLPNDNGSIRCSANFQSNLIESHSTTLVTDvkhhhhhh-----</p> <p><b>BLAST:</b> aliSize=19 (resi) iden=11.43% (12/105) simi=18.10% (19/105)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNPLGTANQ-TINGHFLK E--Pfpvde-----  -----cdvqliykrqsehsilagDPFELECPVKYcANRHVTWCKLNGTTCVKLEDRQTSWKEEKNLSFFIHFEPVLPNDNGSIRCSANFQSNLIESHSTTLVTDvkhhhhhh-----tliaknplgtanqtinghflkepfpvde</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=2.18 (Å)  TVYYpPRVVS-SLEPELRL EHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNPLGTANQ-TINGHFLK E-----epfpvde  CDVQ-LYIKrgSEHSILAGDPFELECPVKYcANRHVTWCKLngt tCVKLEDR---QTSWKEEkn---LSFFIHFEPVLPNDNGSIRCSANFQSNLIESHSTTLVTDvkhhhhhh-----</p>
506	<p>1wwcA (105)</p> <hr/> <p>2dkuA (103)</p>	N	9.71	<p><b>TM-align:</b> aliSize=71 (resi) RMSD=1.90 (Å)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNplgtANQTINGHFLK Epfpvde-----  -----gssgsgancf teel tnlqveekGTAVFTCKTEH---AAAVTVRKGLLELRASGKHQPSQ-EG--L-TLRITISALEKADSDTYTCDIG---QAQSRQQLLVQG-----rrsgpssg</p> <p><b>SARST:</b> aliSize=80 (resi) RMSD=11.84 (Å)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNPLGTANQTINGH-----fLkEpfpvde  -----gssgsgancf teel tnlqveekGTAVFTCKTEH---AAAVTVRKGLLELRASGKHQPSQ-EG--L-TLRITISALEKADSDTYTCDIG---QAQSRQQLLVQgrrsgpssg-----</p> <p><b>BLAST:</b> aliSize=4 (resi) iden=2.91% (3/103) simi=3.88% (4/103)  tvyypprvvs leepelr-----LEHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNplgtANQTINGHFLK Epfpvde-----  -----gssgsgancf teel tnlqveekGTAVFTCKTEH---AAAVTVRKGLLELRASGKHQPSQ-EG--L-TLRITISALEKADSDTYTCDIG---QAQSRQQLLVQgrrsgpssg-----skiihveyyqgeisegclfnkpthynngnytliaknplgtanqti  nghflkepfpvde  -----</p> <p><b>Proposed:</b> aliSize=88 (resi) RMSD=1.98 (Å)  TVYYpPRVVS-SLEPELRL EHCIEFVVRG-NPPPTLHHLHN-----GOPLRESKIIHVEYYOEGEISEGCLFNKPTHYNNNGNYTLIAKNplgtANQTINGHFLK E-----epfpvde  gssGSSGANCFT EELTNLQveekGTAVFTCKTEH---AAAVTVRKGLLELRASGKHQPSQ-EG--L-TLRITISALEKADSDTYTCDIG---QAQSRQQLLVQgrrsgpssg-----</p>

507	<p>1wwcA (105)</p> <hr/> <p>2rheA (114)</p>	N	10.48	<p><b>TM-align:</b> aliSize=81 (resi) RMSD=2.62 (Å)  tvyypprvvs leepelr-----LHCIEFVVRGNP--PPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKNP--LGTANQ-TINGHFLKEFPVDE  -----esvltqppsasgtpgqrvtsictgsatdigsnsviwyqqvpgkapklliyndllpsgvsdrfsasksgt--T-SASLAISGLESEDEADYCAWVNDsIDEPGFgGtKLTvLGqpk-----</p> <p><b>SARST:</b> aliSize=76 (resi) RMSD=15.97 (Å)  tv--YPPRVVSLLEELRLHCIEFVVRGNP--PPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAknplgtanqtinghflke-----pfpvde  --esvltqppSASGTPGQRV1-1SCTIGSaTdigsnsviwyqqvpgkapklliyndllpsgvsdrfsasksgt--T-SASLAISGLESEDEADYCAWVNDsIDEPGFgGtKLTvLGqpk-----</p> <p><b>BLAST:</b> aliSize=5 (resi) iden=3.81% (4/105) simi=4.76% (5/105)  tvyypprvv-----esvltqppsasgtpgqrvtsictgsatdigsnsviwyqqvpgkapklliyndllpsgvsdrfsasksgt--T-SASLAISGLESEDEADYCAWVNDsIDEPGFgGtKLTvLGqpk-----eirlchciefvvrngnpptlhwhngqplreskiihveyyqegeisegcllfnkpthynnngnytlia  knplgtanqtinghflkefpvde</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=2.31 (Å)  tv--YPPRVVSLLEELRLHCIEFVVRGNP--PPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKNP--LGTANQ-TINGHFLKEFPVDE  --eSVLTQPPSASGTPGQRV1-RVT1SCTIGSaTdigsnsviwyqqvpgkapklliyndllpsgvsdrfsasksgt--T-SASLAISGLESEDEADYCAWVNDsIDEPGFgGtKLTvLGqpk-----</p>
508	<p>1wwcA (105)</p> <hr/> <p>2yuvA (100)</p>	N	12.00	<p><b>TM-align:</b> aliSize=72 (resi) RMSD=2.01 (Å)  tvyypprvvs leepelr-----LHCIEFVVRGNPPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKnpLGTANQTINGHFLKEFPVDE  -----gssgsgaafakildpayqvdkgGRVRFVVELADPKLEVKYKNGQEI RPS TKYIFEH-KG--CORIFINNCQMTDDSEYVITAG--DEKCS TELFVRS-----gpssg</p> <p><b>SARST:</b> aliSize=77 (resi) RMSD=10.34 (Å)  tvyypprvvs-----LEELRLHCIEFVVRGNPPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAknplGTANQTINGH-----flkefpvde  -----gssgsgaafaKILDPAyQVDKGGRVRFVVELADPKLEVKYKNGQEI RPS TKYIFEH-KG--CORIFINNCQMTDDSEYVITAG--DEKCS TELFVRS-----gpssg</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=16.00% (16/100) simi=26.00% (26/100)  tvyypprvvs leepelrhc-----IEFVVRGNPPTLHLHNGOPLRESKiihVEYyQEGEISEGCLFNKPTHYNNNGNYTLIA-----knplgtanqtinghflkefpvde  -----gssgsgaafakildpayqvdkgGRVRFVVELADPKLEVKYKNGQEI RPS TKYIFEH-KG--CORIFINNCQMTDDSEYVITAG--DEKCS TELFVRS-----gpssg</p> <p><b>Proposed:</b> aliSize=86 (resi) RMSD=2.02 (Å)  tv----YP-PRVVSLEELRLHCIEFVVRGNPPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKnpLGTANQTINGHFLK-----epfpvde  ---gssgSSgAAFAKIIDPAYQVDKGGRVRFVVELADPKLEVKYKNGQEI RPS TKYIFEH-KG--CORIFINNCQMTDDSEYVITAG--DEKCS TELFVRS-----gpssg</p>
509	<p>1wwcA (105)</p> <hr/> <p>2ywyA (113)</p>	N	8.57	<p><b>TM-align:</b> aliSize=80 (resi) RMSD=2.31 (Å)  tvyypprvvs leepelr-----LHCIEFVVRGNPPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKNP-----LGTANQTINGHFLKEFPVDE  -----awdqtrsvtketgesltincalknaaddLERTDYRTt lgs tneqKISIGGRYVETV-NKG-SKSFSLRIRDLRVEDSGTKCGYFsdamsnysypIPGEGAGTVLTVKAA-----a</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=12.69 (Å)  tv--YPPRVVSLLEELRLHCIEFVVRGNPPTLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKN-----PLGTANQTI-----NGH--flkefpvde  --AVDQTPRSVTKETGESLTINCALKNAADDLERTDYRTt lgs tneqKISIGGRYVETV-NKGSKSFSLRIRDLRVEDSGTKCGYFsdamsnysypIPGEGAGTVLTVKAA-----</p> <p><b>BLAST:</b> aliSize=10 (resi) iden=6.67% (7/105) simi=9.52% (10/105)  awdqtrsvtketgesltincalknaaddLERTDYRTt lgs tneqKISIGGRYVETV-NKGSKSFSLRIRDLRVEDSGTKCGYFsdamsnysypIPGEGAGTVLTVKAA-----hciefvvrngnpptlhwhngqplreskiihveyyqegeisegcllfnkpthynnngnytliaknplgtanqtinghfl  lkefpvde</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=1.94 (Å)  tvYPPRVVSLLEELRLHCIEFVVRGNPPP-TLHLHNGOPLRESKI IHVEYyQEGEISEGCLFNKPTHYNNNGNYTLIAKNP-----LGTANQ-TINGHFLK-epfpvde  ---AVDQTPRSVTKETGESLTINCALKNAADDLERTDYRTt lgs tneqKISIGGRYVETV-NKG-SKSFSLRIRDLRVEDSGTKCGYFsdamsnysypIPGEGAGTVLTVKAA-----</p>

510	<p>1wwcA (105)</p> <p>2ywwA (111)</p>	N	8.57	<p><b>TM-align:</b> aliSize=78 (resi) RMSD=2.02 (Å)        tvyypprvvsleepel-----LHCHVVR-GNPPP-TLHHLHN-----GOPLRESKI IHVEYyOEFELSEGCLFNKPTHYNNNYTLIAKNPL-----GTANQ-TINGHfLkefpvde        -----awwdqtprtitketESLTKVLDKHSGLSSTTYRTqlgstneKTIISIGGRYDETV-DKGSKFSRISDLRVEDSITKCOADYSPscysysleSAVEGaGTVLTVK-----</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=12.76 (Å)        tv-YYPPrVVSLEEP--ELRLEHCHVVRGNPPP-TLHHLHN-----OPLRESKI IHVEYyOEFELSEGCLFNKPTHYNNNYTLIAKNPL-----GTANOT---INGH--flkefpvde        --aWVDQTPRTITKEtESLTKVLDKHSGLSSTTYRTQlsgstneKTIISIGGRYDETV-DKGSKFSRISDLRVEDSITKCOADYSPscysysLESAGEgagTVLTVK-----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=4.76% (5/105) simi=7.62% (8/105)        tvyypp-----PRVVSLEPEELRLEHCHVLDKHSGLSSTTYRTqlgstneKTIISIGGRYDETV-DKGSKFSRISDLRVEDSITKCOADYSPscysysleSAVEgagTVLTVK-----efvvrngnpptlhwhngqplreskiihveyyqegeisegcllfnkpthynnngnytliaknplgtanqtinghf        -----awwdqtprtitketESLTKVLDKHSGLSSTTYRTqlgstneKTIISIGGRYDETV-DKGSKFSRISDLRVEDSITKCOADYSPscysysleSAVEgagTVLTVK-----        lkefpvde        -----</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=1.93 (Å)        tvyYPPRVVS-LEEP-ELR-LEHCHVVR-GNPPP-TLHHLHN-----GOPLRESKI IHVEYyOEFELSEGCLFNKPTHYNNNYTLIAKNPL-----GTANQ-TINGHFLkefpvde        ---AWVDQTPRTITKEtESLTKVLDKHSGLSSTTYRTqlgstneKTIISIGGRYDETV-DKGSKFSRISDLRVEDSITKCOADYSPscysysleSAVEGaGTVLTVK-----</p>
511	<p>1wwrA (154)</p> <p>1wkqB (155)</p>	C	29.87	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=2.07 (Å)        gshmgKLYLVALREAKRAFEK-EVIVGAIIVKEEELISKAHNSVEELKDPATAHAEMLAKEACRRNTKYEGEELYVTLEPCIMCSYALVLSRIEKVIFSLDK---K---HGgvSVFn-Identlnhrvkweyvpleeasellseffkklrnnii-----        ----NHITELRAVTLACEGVNAGIGGFAGAVLVKDGALAEQONNVTTSNDPTAHAEVTAIRKACKVAGAYQDDITLYTSCPCPCPLGAIYWARPKAFYAEHTdaaeAGFDDSFYKEIDKPAEERT-----IPFYQVTITHLSPFQAWRnfankkey-----        -----        nfankkey</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=15.57 (Å)        gshmg-KLYLVALREAKRAFEK-EVIVGAIIVKEEELISKAHNSVEELKDPATAHAEMLAKEACRRNTKYEGEELYVTLEPCIMCSYALVLSRIEKVIFSLDK---KHGGVSVV----FNILDEPTlnhrVKWEYYPLEASELSEFF-----kklrnnii        ----nhITELRAVTLACEGVNAGIGGFAGAVLVKDGALAEQONNVTTSNDPTAHAEVTAIRKACKVAGAYQDDITLYTSCPCPCPLGAIYWARPKAFYAEHTdaaeAGFDDSFYKEIDKPAEERT-----IPFYQVTITHLSPFQAWRnfankkey-----</p> <p><b>BLAST:</b> aliSize=80 (resi) iden=35.06% (54/154) simi=51.95% (80/154)        gshmgk--LYLVALREAKRAFEK-EVIVGAIIVKEEELISKAHNSVEELKDPATAHAEMLAKEACRRNTKYEGEELYVTLEPCIMCSYALVLSRIEKVIFSLDK---LDKKGgvSVV----VFNILDEPTlnhrVKWEYYPLEASELSEFFKCLR-----nii        ----nhITELRAVTLACEGVNAGIGGFAGAVLVKDGALAEQONNVTTSNDPTAHAEVTAIRKACKVAGAYQDDITLYTSCPCPCPLGAIYWARPKAFYAEHTdaaeAGFDDSFYKEIDKPAEERTI---PFYQV-TLTHLSPFQAWRnfankkey---</p> <p><b>Proposed:</b> aliSize=133 (resi) RMSD=1.56 (Å)        gshmgKLYLVALREAKRAFEK-EVIVGAIIVKEEELISKAHNSVEELKDPATAHAEMLAKEACRRNTKYEGEELYVTLEPCIMCSYALVLSRIEKVIFSLDK---KHGGVSVVFNIL-DePTlnhrVKWEYYPLEASELSEFFKCLR-nii        ----NHITELRAVTLACEGVNAGIGGFAGAVLVKDGALAEQONNVTTSNDPTAHAEVTAIRKACKVAGAYQDDITLYTSCPCPCPLGAIYWARPKAFYAEHTdaaeagfddsfyke-----IDKPAeEr-----TIPFYQVTITHLSPFQAWRNF--AKkey-</p>
512	<p>1wwrA (154)</p> <p>3b8fB (142)</p>	C	14.08	<p><b>TM-align:</b> aliSize=107 (resi) RMSD=3.23 (Å)        gshmgKEYFLKVALREAKRAFEKGeVPVGAIVKGEELISKAHNSVEELKDPATAHAEMLAKEACRRlnTkyLeGCELYVT-----EPCIMCSYALVSR-IEKVIIFsALdkkhggv-----Vsvf---NILDEPTL---N--Hrvkweypleeasellseffkklrnnii-----        --LNI EQLYDVKQLIEQRYPN-DWGAAIRVEDTITYSVAP-DVINasTEL-CMETGAILLEAHKFKQ-K--K-VTHSIClarenehse lkvISPCGVCQERFYWGPEVQCAI-TN-----akqdi i f k l k e l q p y h w t e a y h d e m v k e w s t r</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=6.31 (Å)        gshmgk--EYFLKVALREAKRAFEKGeVPVGAIVK--EELISKAHNSVEELKDPATAH-AEMLAKEACRRlnTYLEGCELYVT-----EPCIMCSYALVSRIEKVIIFsALDKKHG-----gvsvfnilddeptlnhrvkweypleeasellseffkkl        -----lnIEQLYDVKQLIEQRYPN-DWGAAIRVEDTITYSVAP---VINASTEICMETGAILLEAHKFKQVTHSIClarenehse lkvISPCGVCQERFYWGPEVQCA-ITNAKQDi i f k p l k e l q p y h w t e a y h d e m v k e w s t r</p> <p>l r n n i i        -----</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=14.79% (21/142) simi=18.31% (26/142)        gshmgkeyflkvalreakrafekgevpvg-----AVKGEELISKAHNSVEELKDPATAHAEMLAKEACRRlnTYLEGCELYVT-----EPCIMCSYALVSR-IEKVIIFsALDKKHG-----vlsriekvifsaldkk        -----lnieqlydvkqliEQRYPN-DWGAAIRVEDTITYSVAP-DVINASTELC-METGAILLEAHKFKQVTHSIClarenehse lkvISPCGVCQERFYWGPEVQCAInakqdi i f k p l k e l q p y h w t e a y h d e m v k e w s t r</p> <p>hggvsvfnilddeptlnhrvkweypleeasellseffkklrnnii        -----</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=2.80 (Å)        gshmgKEYFLKVALREAKRAFEKGeVPVGAIVKGEELISKAHNSVEELKDPATAHAEMLAKEACRRlnTkyLeGCELYVT-----EPCIMCSYALVSR-IEKVIIFsALdkkhggvsvfnilddeptL-----nhrvkweYYPLeEASELSEFFKCLR-nii        --LNI EQLYDVKQLIEQRYPN-DWGAAIRVEDTITYSVAP---DVInasTEL-CMETGAILLEAHKFKQ-VTHSIClarenehse lkvISPCGVCQERFYWGPEVQCA-----ITNAKQDi i f k p l k e l q p y h w t e a y h d e m v k e w s t r</p>

513	<p>1wwrA (154)</p> <p>3b8fC (140)</p>	C	14.29	<p><b>TM-align:</b> aliSize=106 (resi) RMSD=3.28 (Å)  gshMGKEFLKALREAKRAFEKGEVPGVATIVKGEIISKAHNSVEELK--DPTaHAMLAKKACRRlntkyLEGCFLYVT-----EPCIMCSYAVISRI--EKVIFsALDkkggv-----Vsvf---NILDEPTLN-----HRvkweyypleasellseffkklrnnii-----  ---NI EQQLYDVKQLIEQRYPN-DWGAARVVDGTIYTSVAP-DVINasTEL-CMTGALFAHKFQ----KkVTHSIClarenehsekvLSPGVCQERLF-YWGpeVQCAI-TNA-----kqdiifk---plkELQPYHWTayhdeMV-----kewst</p> <p><b>SARST:</b> aliSize=92 (resi) RMSD=7.44 (Å)  gshmgk-EYFLKVALREAKRAFEKGEVPGVATIVKGEIISKAHNSVEELKDPtah-AEMLAIKEACRRlntkyLEGCFLYVT-----EPCIMCSYAVISRI--EKVIFsALDkkggvsvfnideptlnhrvkweyypleasell  -----nIEQQLYDVKQLIEQRYPN-DWGAARVVDGTIYTSVAPD---VINASTEICMETGAILFAHKFQKVTHTSICARENehselkvLSPGVCQERLFYWGpeVQCAInAKQDIIFKplkelqpyhwtayhdeMVkewst-----  seffkklrnnii</p> <p><b>BLAST:</b> aliSize=26 (resi) iden=15.00% (21/140) simi=18.57% (26/140)  gshmgkeyflkvalreakrafekgevpvg-----nIEQQLYDVKQLIEQRYPN-DWGAARVVDGTIYTSVAPD---VINASTEICMETGAILFAHKFQKVTHTSICARENehselkvLSPGVCQERLFYWGpeVQCAInAKQDIIFKplkelqpyhwtayhdeMVkewst-----vlsriekvifsaldkkkg  -----nieqqlYdvkqliEQrypnDwGaaARVVDGTIYTSVAPD---VINASTEICMETGAILFAHKFQKVTHTSIClarenehsekvLSPGVCQERLFYWGpeVQCAInakqdiifkplkelqpyhwtayhdeMVkewst-----  vsvfnideptlnhrvkweyypleasellseffkklrnnii</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=2.88 (Å)  gshMGKEFLKALREAKRAFEKGEVPGVATIVKGEIISKAHNSVEELK--DPTaHAMLAKKACRRlntkyLEGCFLYVT-----EPCIMCSYAVISRI--EKVIFsALDkkggvsvfnideptlnhrvkweyypleasellseffkklrnnii  ---NI EQQLYDVKQLIEQRYPN-DWGAARVVDGTIYTSVAPD---VINASTEICMETGAILFAHKFQKVTHTSICARENehselkvLSPGVCQERLFYWGpeVQCAInAKQDIIFKplkelqpyhwtayhdeMVkewst-----QPYH-WTEAYHDEMVEWS-T--</p>
514	<p>1wwzA (157)</p> <p>lqsmA (150)</p>	C	18.00	<p><b>TM-align:</b> aliSize=135 (resi) RMSD=2.80 (Å)  mDEIKIEKLKIDkkALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGR-IVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq----  --DNITVRFVTE-N--DKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlyk-----rkgy</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=6.39 (Å)  mdeikieklkld-----KALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGRIVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq  -----dnitvrfvtendKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlyk-----  VGYApKIlykrygy</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=26.67% (40/150) simi=40.67% (61/150)  mDEIKIEKLKIDkkALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGRIVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq  --DNITVRFVTE-N--DKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlykrygy-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.54 (Å)  md-EIKIEKLKIDkkALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGR-IVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq  --dnITVRFVTE-N--DKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlykrygya-----</p>
515	<p>1wwzA (157)</p> <p>lqsmB (149)</p>	C	19.46	<p><b>TM-align:</b> aliSize=137 (resi) RMSD=2.85 (Å)  mDEIKIEKLKIDkkALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGR-IVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq----  --DNITVRFVTE-N--DKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlyk-----rkgy</p> <p><b>SARST:</b> aliSize=131 (resi) RMSD=6.49 (Å)  mdeikieklkld-----KALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGRIVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq  -----nitvrfvtendKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlykrygy-----  VGYApKIlykrygy</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=26.17% (39/149) simi=40.27% (60/149)  mdeIKIEKLKIDkkALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGR-IVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq  ---dnITVRFVTE-N--DKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlykrygy-----</p> <p><b>Proposed:</b> aliSize=140 (resi) RMSD=2.74 (Å)  md-EIKIEKLKIDkkALNELIDVYMSGYEGLeYgGEGrdYARNYIKWCWKASDGFVAKV---GDKIVGFTVCDkDWFSkyEGR-IVGALHEFVVDKKFQGGKIGRKLITCLDFLG-YNDTIELWVGKKNYGAMNLYEFKFK-VGKSgiwrmikrq  --dnITVRFVTE-N--DKEGWQRLWKSQDFY---VS---FPDdLDDFNFRGfLdpnIKM-WAAVAVEssSEKIIIGMNFN-NHMTT-WDFkDKIY--INDLYVDENSRVKGAGKLIQFVYDEADLGTSPSVYWCDESnhRAQLLYVVGyApKIlykrygya-----</p>

516	<p><b>1wwzA (157)</b></p> <p><b>1qsmD (152)</b></p>	C	19.74	<p><b>TM-align: aliSize=139 (resi) RMSD=2.84 (Å)</b>  M-DEIKIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCW-K--KASdGFFVAKV--GDKIVGFI VCDkDWFsKyEGR-IVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFK-VGKSGIwvrmiqrq----  SeNITVRFV-T-E-NDKEGWQRLWKSYODFYF---VSFPDLDDFNFRFLDpnIKM-WAAAVEssSEKIIIGMNFN-NHMIT-WDFkDKIYINDLYVDENSRVKGAGKLIQFVYDEADKIGTPSVYWCTDESNRHQLLVVVGKApKILYK-----rkgy</p> <p><b>SARST: aliSize=139 (resi) RMSD=5.25 (Å)</b>  mde----KIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCWKAASDGFVAKV---GDKIVGFI VCDkDWFsKYEGRIVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKfgfkVgKSGIWRMI----krq  ---sednITVRFV---TENDKEGWQRLWKSYQ---DFYEVSFPLDDFNFRFLDpnIKMWA--VAvesSEKIIIGMNFN-NHMITWDFKDIYINDLYVDENSRVKGAGKLIQFVYDEADKLGTPSVYWCTDESNRHQLLVV---VGYKAPKILYkrqgy---</p> <p><b>BLAST: aliSize=61 (resi) iden=26.32% (40/152) simi=40.13% (61/152)</b>  m--DEIKIEKLKkLdKkALNELIDVYMSGYEGL---GEEYgGEGRYARNYIKWCWKAASdGfVAKVGDKIVGFI VCDKDFs-KYEGRIVGAIHEFVVDKKFOGKIGRKLITCLDFLGKYNDTIELWVGEKNYGAMNLYEKFGFK-----kvgksgIwvrmiqrq  -seNITVRFVTENDKEGWQRLWKSQODFYFvsfpdLDDFNFRFLDpnIKMWA--VA--VESSEKIIIGMNFN-NHMITWDFKDIYINDLYVDENSRVKGAGKLIQFVYDEADKIGTPSVYWCTDESNRHQLLVVVGKApkilykrqgy-----</p> <p><b>Proposed: aliSize=142 (resi) RMSD=2.68 (Å)</b>  M-DEIKIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCW-K--KASdGFFVAKV--GDKIVGFI VCDkDWFsKyEGR--IVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFKVgKSGIWRMIKRQ--a  SeNITVRFV-T-E-NDKEGWQRLWKSYODFYF---SFPDLDDFNFRFLDpnIKMWA--AA--VAvesSEKIIIGMNFN-NHMIT--TWDFkDKIYINDLYVDENSRVKGAGKLIQFVYDEADKIGTPSVYWCTDESNRHQLLVVVGK---APKILYKRKGya-</p>
517	<p><b>1wwzA (157)</b></p> <p><b>1s3zB (145)</b></p>	C	12.41	<p><b>TM-align: aliSize=135 (resi) RMSD=2.78 (Å)</b>  mdeIKIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCW-KKASDGFVAKVGDKIVGFI VCDkDWFsK-Y--EGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFKVgKSGIwvrmiqrq----  ---MDIRQMN--T--HIEHWRGLRKQ-L-----WPGHPDAHLADGEEILQADHLASITAMADGVAIGFADAS-IRHDYvNgcDSSPVVLEGI FLPSELRORVAKQLIAAVQRWGTnkGCREMASDTSPEITISQKVHQUALGFEETERVIF-----yrkrcc</p> <p><b>SARST: aliSize=140 (resi) RMSD=5.62 (Å)</b>  mdei-KIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCWKAASDGFVAKVGDKIVGFI V--CDKDFsKYEGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFKVgKsgIWRMIKR-q  ---mDIRQM--NKT--HIEHWRGLRKQL-----WPGHPDAHLADGEEILQADHLASITAMADGVAIGFADASIRHDYVNGDSSPVVLEGI FLPSELRORVAKQLIAAVQRWGTnkGCREMASDTSPEITISQKVHQUALGFEETERVIF--VIFYRKRc-</p> <p><b>BLAST: aliSize=37 (resi) iden=15.17% (22/145) simi=25.52% (37/145)</b>  mdeikieklkklldkkaInelidvymsgyegleeyggEGRYARNYIKWCWKAASD-----GFFVAKV-GDKIVGFI VCDKDFsKYEGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFKVgKsgIWRMIKR-q  -----mdirqmKthlehwrglrqkqwpghpdahladgeeilqadhlasiamadgvaigfadasirhdYvngcDSSPVVLEGI FLPSELRORVAKQLIAAVQRWGTnkGCREMASDTSPEITISQKVHQUALGFEETERVIF--VIFYRKRc-  MNLVYKFGFKK-----vkgksgIwvrmiqrq  QKVHQUALGFEETERVIFyrkrcc-----</p> <p><b>Proposed: aliSize=140 (resi) RMSD=2.44 (Å)</b>  mdeIKIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCWKAASDGFVAKVGDKIVGFI VCDkDWFsKY---EGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFKVgKsgIWRMIKRQ-a  ---MDIRQM-NKT--HIEHWRGLRKQL--P---GHPDAHLADGEEILQADHLASITAMADGVAIGFADAS-IRHDYvngcDSSPVVLEGI FLPSELRORVAKQLIAAVQRWGTnkGCREMASDTSPEITISQKVHQUALGFEETERVIFYRKRc-</p>
518	<p><b>1wwzA (157)</b></p> <p><b>1z4eA (150)</b></p>	C	17.33	<p><b>TM-align: aliSize=138 (resi) RMSD=3.10 (Å)</b>  mdeIKIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCW-K--KASdGFFVAKVGDKIVGFI VCDKDFsKY-EGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFK-VGKSGIwvrmiqrq--  --HVTIREA-T-E-GDIEQMVHMLAD-D-VGR-KRERYekp1PVSYVRAFKEIKdKnNE--LIVACNGEEIVGMLQVTFPTYLT-yQSWRATIEGVRTHSAARQGIQSOLVCWAIERAKERGCHLQITTDKORPDALRFYQLGFKASHEGLKM-----hf</p> <p><b>SARST: aliSize=132 (resi) RMSD=5.46 (Å)</b>  mdeikieklkklldkkaIn-----ELIDVYMSGYEGLeygGEGRYARNYIKWCWKAASDGFVAKVGDKIVGFI VCDkDWFsKYEGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGKYNDTIELWVGEKNYGAMNLYEKFGFKVgKsgIWRMIKR-q  -----hvtireategdLEQMVHMLADDVGRKRERYEKPLPVSYVRAFKEIKdKNNELIVACNGEEIVGMLQVTFPTYLT-yQSWRATIEGVRTHSAARQGIQSOLVCWAIERAKERGCHLQITTDKORPDALRFYQLGFKASHEGLKMhf-</p> <p><b>BLAST: aliSize=46 (resi) iden=17.33% (26/150) simi=30.67% (46/150)</b>  mdeikieklkklldkkaInelidvymsgyegleeyggEGRYARNYIKWCWKAASDGFVAKVGDKIVGFI VCDKDFsKYEGRI VGIHEFVVDKKFOGKIGRKLITCLDFLGKYN-DTIELWVGEKNYGAMNLYEKFGFK-----  -----hvtireategdleqmvhmladdvgrkreryekplpvsVYRAF-KEIKdKNNELIVACNGEEIVGMLQVTFPTYLT-yQSWRATIEGVRTHSAARQGIQSOLVCWAIERAKERGCHLQITTDKORPDALRFYQLGFKASHEGLKMhf-  -kvgksgIwvrmiqrq  f-----</p> <p><b>Proposed: aliSize=136 (resi) RMSD=2.32 (Å)</b>  mdeIKIEKLkK1DkKALNELIDVYMSGYEGLeygGEGRYARNYIKWCW-K--KASdGFFVAKVGDKIVGFI VCDkDWFs-kyeG--R-IVGAIHEFVVDKKFOGKIGRKLITCLDFLGK-YNDTIELWVGEKNYGAMNLYEKFGFKVgKsgIWRMIKRQa  --HVTIREA--TE-GDIEQMVHMLAD-D-VGRK--RERYekp1PVSYVRAFKEIKdKnNE--LIVACNGEEIVGMLQVTFPTYLT---TyqGswRATIEGVRTHSAARQGIQSOLVCWAIERAKERGCHLQITTDKORPDALRFYQLGFKAS--S-HEGLKMHF-</p>

519	<p>1wwzA (157)</p> <hr/> <p>2g3tA (169)</p>	C	15.29	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.80 (Å)  mdETKLEKLLKIDkkALNELIDVYMSGYEGLEEEyGGRDYArNy-IK-WCW---KKASdgFFVAKVGD-----KIVGFIVCDkDWFSkyEGRIVGAITHEVVDKKFOCKGIGRKLITCLDFLGK-YNDTIELWVGEKLYGAMNLYEKFVFKKVG---KSGIwrmikrq-----  --KFVLRPATA-A--DCSDILRLIKELAKYEYM--EQVIL-TE-kDLIEDGfgehPFYH--CLVAEVPKehwtpeghSIVGFHMY-FTYDPWIGKLLYLEDVFMMSDYRCFGIGSEIKNLSQVAMRCSSMHFLAFAWNEPSINFYKRRASDLSseegWRLF-----kidkeyllkmat</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=4.90 (Å)  mdeikielkkld-----KKALNELIDVYMSGYEGLEEEyGGRDYArNyIKWCWKKASDGFFVAKVGD-----KIVGFIVCDkDWFSkyEIVGAITHEVVDKKFOCKGIGRKLITCLDFLGKYN-DTIELWVGEKLYGAMNLYEKFVFKK-----  -----kfvirpataadCSIDLRLIKELAKYEYMEEQVILT-----EKDLEDFGGEHPfyhclvaEVPKEHwtpeghSIVGFHMY-FTYDPWI--KLLYLEDVFMMSDYRCFGIGSEIKNLSQVAMRCrCSSMHFLAFAWNEPSINFYKRRASDLSseegwrlfkidkeyllkmat</p> <p>--gksGIwrmikrq  ee-----</p> <p><b>BLAST:</b> aliSize=45 (resi) iden=14.65% (23/157) simi=28.66% (45/157)  mdeikielkkldkkaalnelidvymsgyegleeyggegrdyarnyikwcwkksdgffvakv-----DKIVGFIVcdkdWFSKTE---RIVgAITHEVVDKKFOCKGIGRKLITCLDFLGKYN-DTIELWVGEKLYGAMNLYEKFVFKK-----  -----kfvirpataadcsdilrlikelakeyemeeqviltekdllledgfgehpfyhclvaevpkewtpeghSIVGFHMY-FTYDPWI--KLLYLEDVFMMSDYRCFGIGSEIKNLSQVAMRCrCSSMHFLAFAWNEPSINFYKRRASDLSseegwrlfkidkeyllkmat</p> <p>ELWVGEKLYGAMNLYEKFVFKKVGKSGIwrmikrq-----  HFLAFAWNEPSINFYKRRASDLSSEEGWRLFidkeyllkmat</p> <p><b>Proposed:</b> aliSize=140 (resi) RMSD=2.31 (Å)  mdETKLEKLLKIDkkALNELIDVYMSGYEGLEEEyGGRDYArNyIKWCW---KKASdgFFVAKVGD-----KIVGFIVCDkDWFSkyEG-RIVGAITHEVVDKKFOCKGIGRKLITCLDFLGK-YNDTIELWVGEKLYGAMNLYEKFVFKKVGKSG-IWVRMIKRO-----a  --KFVLRPATA-TAA--DCSDILRLIKELAKYEYM--EQVIL-TEkd--LledG-fgehPFYH--CLVAEVPKehwtpeghSIVGFHMY-FTYD--PWIGKLLYLEDVFMMSDYRCFGIGSEIKNLSQVAMRCrCSSMHFLAFAWNEPSINFYKRRASDLS-SEEGWRLFkIDkeyllkmat</p>
520	<p>1wx7A (106)</p> <hr/> <p>1wx8A (96)</p>	N	35.42	<p><b>TM-align:</b> aliSize=81 (resi) RMSD=2.01 (Å)  gssgssgspapV-----QDPHLIKVTKPKKEDFSVTDCTIQQLKEETSQRFKAHPDQLVLIAGKILKDPSSAACVVRDGLVHLLIKRQ--H-RAmgnecpasgpgssg  -----gssgssgvsgrEPPSSRIIRVSVKTPQDCHFLAENSNVRRFKQISKYLHCNADRLVLIFTGKILRQDILSORGILDCSTVHVVRSHsgPsSG-----</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=6.15 (Å)  gs-----SGSSGSPAPVQDPHLIKVTKPKKEDFSVTDCTIQQLKEETSQRFKAHPDQLVLIAGKILKDPSSAACVVRDGLVHLLIKRQHRAmgnecpasgpgssg  --gssgssgVSGREPSSRIIRVSVKTPQDCHFLAENSNVRRFKQISKYLHCNADRLVLIFTGKILRQDILSORGILDCSTVHVVRSHsgPsSG-----</p> <p><b>BLAST:</b> aliSize=67 (resi) iden=48.96% (47/96) simi=69.79% (67/96)  GSSGSSGSPAPVQDPHLIKVTKPKKEDFSVTDCTIQQLKEETSQRFKAHPDQLVLIAGKILKDPSSAACVVRDGLVHLLIKRQHRAmgnecpasgpgssg  GSSGSSGVSREPSSRIIRVSVKTPQDCHFLAENSNVRRFKQISKYLHCNADRLVLIFTGKILRQDILSORGILDCSTVHVVRSHsgPsSG-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=1.93 (Å)  -GSSGSSGSPAPVQDPHLIKVTKPKKEDFSVTDCTIQQLKEETSQRFKAHPDQLVLIAGKILKDPSSAACVVRDGLVHLLIKRQHR--Amgnecpasgpgssg  gSSGSSG-VSGREPSSRIIRVSVKTPQDCHFLAENSNVRRFKQISKYLHCNADRLVLIFTGKILRQDILSORGILDCSTVHVVRSHsgPsSG-----</p>
521	<p>lyghA (164)</p> <hr/> <p>li1dD (161)</p>	C	11.18	<p><b>TM-align:</b> aliSize=125 (resi) RMSD=3.45 (Å)  -----KTEFRVvndntkenMMVTGLKNIFOKOLPKmpKEYIA--RLV--Y--DR-----SHLSMAVIR-PLTVGGITYPFD-----KREFAEIVFCALISSTEVRGYAHMNHKDYVRNtSNIKYFLTYADNYAIGYFKQGFTEitldksiwgylmqs  gmslpdGFYIRME-----EGDIEQVTETLKVLTtVGTITPESFckLikyWneatvwndnedkkinqNPIVVDRTETAATGNIIEBKIiHELGLCGHEDIvNSKYGGQLKLIIDQVTIGFD-YGCKIILDCDEKNVKFYEACGFSNAG-----vEMQIR-----</p> <p>mlpriyld-  -----k</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=6.63 (Å)  kiefrvnnndntkenmmv-----TGLKNIFOKO--LPKMPKEYIARIV-----YDRSHLSMAVIRKPLTVGGITYPFDKREFAEIVFCALISSTEVRGYAHMNHKDYVRNtSNIKYFLTYADNYAIGYFKQGFTEitldksiw  -----gmslpdgyfirmeegdlEQVTETLKVLTtVGTITPESFckLikyWneatvwnDNEKKIINqNPMVVDKRTETAATGNIIEBKIiHELGLCGHEDIvNSKYGGQLKLIIDQVTIGFDY-GCYKIILDCDEKNVKFYEACGFSNAGvemqirk-----</p> <p>mgykdyegtlmqcsmprilyd  -----</p> <p><b>BLAST:</b> aliSize=42 (resi) iden=15.53% (25/161) simi=26.09% (42/161)  kiefrvnn-----DNTKINMMVTGLKNIFOKOLPKmpKEYIARIVYDRSHLSMAVIRKPLTVGGITYPFDKREFAEIVFCALISSTEVRGYAHMNHKDYVRNtSNIKYFLTYADNYAIGYFKQGFTEitldksiw  -----gmslpdgyfirmeegdlEQVTETLKVLTtVGTITPESFckLikyWneatvwnDNEKKIINqNPMVVDKRTETAATGNIIEBKIiHELGLCGHEDIvNSKYGGQLKLIIDQVTIGFDY-GCYKIILDCDEKNVKFYEACGFSNAGvemqirk-----</p> <p>ksiwgyikdyegtlmqcsmprilyd  -----</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=2.43 (Å)  -----KTEFRVvndntkenMMVTGLKNIFOKOLPKmpKEYIARIVYDRSHLSMAVIRKPLTVGGITYPFDKREFAEIVFCALISSTEVRGYAHMNHKDYVRNtSNIKYFLTYADNYAIGYFKQGFTEitldksiwgyikdyegtlmqcsmprilyd  gmslpdGFYIRME-----EGDIEQVTETLKVLTtVGTITPESFckLikyWneatvwndnedkkinqNPIVVDRTETAATGNIIEBKIiHELGLCGHEDIvNSKYGGQLKLIIDQVTIGFDY-GCYKIILDCDEKNVKFYEACGFSNAGvemqirk-----</p> <p>MOCSMLpriyld  EMQIRK-----</p>

522	<p>lyghA (164)</p> <hr/> <p>ls3zB (145)</p>	C	8.28	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=2.69 (Å)  kIEFRVvndntkeMMVITGLKNIFOKOLPKMPKYYIA-RLVYD--RS--HLMAVIRKPIITVVIGITYRPFDK-----REFAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYAD-NY--AIGYFKKQGHFKKEitldksiwmgyik--DYeggtlmqcsmlpriyld----</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=3.37 (Å)  kiefrvvndntkenmmv-----TGLKNIFOKOLPKMPK---YIARLVYDRSHLSMAVIRKpLTVVIGITYRPFdkR---E----FAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYADNYA---IGYFKKQGHFK---keitldksiwmgyikdyeggtlm-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=6.21% (9/145) simi=9.66% (14/145)  kiefrvvndntkenmmvltglknifqkqlpkmpkeyiarlvdrshlsmavirkpltvvggityrpfdkrefaeivfcaisssteqrvgyahlm-----fkkqgftkYVRNTSNIKYFLTYADNYAIGY-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.33 (Å)  kIEFRVvndntkeMMVITGLKNIFOKOLPKMPKYYIA-RLVYD--RS--HLMAVIRKPIITVVIGITYRPFDK-----REFAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYAD-NY--AIGYFKKQGHFKKEitldksiwmgyikdyeggtlmqcsmlPri-ryld-----</p>
523	<p>lyghA (164)</p> <hr/> <p>ls5kA (153)</p>	C	7.19	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=2.77 (Å)  glvprgshMDITQ-----KTHIEHWRLRKLQW---GHPdDAH1ADGEEilQadhLASFIAMADG-VAIGFADASIRHdyvngcdsSPVVFLEGI FVLP SFRORGVAKQIIAAVQRWGT-NKGCREMASDTSpenTiSQKVHQALGFEET-----rvIFy-----</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=3.93 (Å)  k-----IEFRVvndntkenMMVITGLKNIFOKOLPKMPK---KEYIARLVYDRSHLSMAVIRKpLTVVIGITYR---PFdkRE----FAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYADNYAIG---YFKKQGHFK---keitldksiwmgyikdyeggtlmqcsmlpriyld-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=5.88% (9/153) simi=9.15% (14/153)  kiefrvvndntkenmmvltglknifqkqlpkmpkeyiarlvdrshlsmavirkpltvvggityrpfdkrefaeivfcaisssteqrvgyahlm-----fkkqgftkYVRNTSNIKYFLTYADNYAIGY-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.32 (Å)  glvprgshMDITQ-----KTHIEHWRLRKLQW---GHPdDAHLADGEEilQadhLASFIAMADG-VAIGFADASIR-HdyvngcdsSPVVFLEGI FVLP SFRORGVAKQIIAAVQRWGT-NKGCREMASDTSpenTiSQKVHQALGFEET-----ERVIFYRKR-Cc-----</p>
524	<p>lyghA (164)</p> <hr/> <p>lufhA (155)</p>	C	10.97	<p><b>TM-align:</b> aliSize=125 (resi) RMSD=2.85 (Å)  kIEFRVvndntkeMMVITGLKNIFOKOLPK-M-----P--KE-YIARLV--YD-RS--LSMAVI-RKPIITVVIGITYRPFDKR--EFAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYADN-Y--AIGYFKKQGHFKKEitldksiwmgyikdyeggtlmqcsmlpriyld-----</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=9.95 (Å)  kiefrvvndnt-----KENMMVITGLKNIFOKOLPKMPKYYIARLV-----YDRSHLSMAVIRK---PLTVVIGITYRPFd--KREFAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYADNYAIGYFKKQGHFKKEitldksiwmgyikdyeggtlmqcsmlpriyld-----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=9.03% (14/155) simi=16.13% (25/155)  kiefrvvndntkenmmvltglknifqkqlpkmpkeyiarlvdrshlsmavirkpltvvggityrpfdkrefaeivfcaiss-----tIMLTPM-----QTEEFRSYLYTTIKHYAEKvkgatwlpedaqlLSKqVfTdlprGLETPHHHLWSLkInEKDlVGLWlWlHAEPEHPqQEAfYDFGLYEPYRKGAKQALAAQAAARS-MGIRKLSLHVFAhNqtARKLYEQTGFEET-----vVM-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.41 (Å)  kIEFRVvndntkeMMVITGLKNIFOKOLPK-M-----P--KE-YIARLV--Y--Y--DRSLSMAVI-RKPIITVVIGITYRPFDKR--EFAEIVFCAISSTEORVRYGAHLMNHLKDYVRnTSNIKYFLTYADN-Y--AIGYFKKQGHFKKEitldksiwmgyikdyeggtlmqcsmlPriyld-----</p>

525	<p>lyghA (164)</p> <hr/> <p>lufhB (154)</p>	C	11.04	<p><b>TM-align:</b> aliSize=125 (resi) RMSD=2.66 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPK-M-----PKKEYIARIV--YD-RS-LSMAVIR-KPITVVGITIRPFDKR--EFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADN-Y--IGYFKKQFTKEITldksiwmgikdyEGGtImqcsmlpriyld---  -MLTPM-----QTEEFRSYLTYTTHYAEeKvkagtwlpedaqllSKQVFTdLprGlEtpHHLWLSLKLnEK-DIVGWLWIHAEPHPqQEAFFYDFGLYEPYRGGYAKQALAA-DQAARS-MGRKLSLHVFAhNqtRKLQEQTGQETD-----V-VM-----skkl</p> <p><b>SARST:</b> aliSize=116 (resi) RMSD=5.59 (Å)  kiefrvvndnt-----KENMMVLTGLKNIFOKLPKMPKEYIARIV-----YDRSHLSMAVIRK---PLTVVGITIRPFDP--KREFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGY---FKKQFT-----keITldksiwmgikdyEGGtIm  -----imltpmqteefRSYLTYTTHYAEeKvkagtwlpedaqllSkqvftdlprGLEtPHHHLWLSLKLnEKDlVGLWLIHAEPHPqQEAFFYDFGLYEPYRGGYAKQALAA-DQAARS-MGRKLSLHVFAhNQTarklYEQTGQETdvmskkl-----</p> <p>qcsmlpriyld  -----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=9.09% (14/154) simi=16.23% (25/154)  kiefrvvndntkenmmvltglknifqkqlpkmpkeyiarlvdrshlsmavirkpltvvggityrpfdkrefaeivfaiss-----imltpmqteefrsyltytthyaeeKvkagtwlpedaqllskqvftdlprgletphhhlwslklnekdivglwihaepehpqqaefiydfglyEYVRC--GAH  -----PYRCKGAKO</p> <p>LMNHKDYVRNtSNIKYFLTYADNYAIGYFKKQFTKEITldksiwmgikdyEGGtImqcsmlpriyld  ALAA-DQAARSMGIRLSLHVFAhNQTARKLYEQTGQETDVMSSKLL-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.25 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPK-M-----PKKEYIARIV--Y--DRS-LSMAVIR-KPITVVGITIRPFDKR--EFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADN-Y--IGYFKKQFTKEITldksiwmgikdyEGGtLMQCSMLPRIYLD  -MLTPM-----QTEEFRSYLTYTTHYAEeKvkagtwlpedaqllSKQVFTdLprGlEtpHHLWLSLKLnEK-DIVGWLWIHAEPHPqQEAFFYDFGLYEPYRGGYAKQALAA-DQAARSMGIRKLSLHVFAhNqtRKLQEQTGQETD-----TDV-VSSKLL-----</p>
526	<p>lyghA (164)</p> <hr/> <p>2d4pA (130)</p>	C	7.69	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=3.34 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPKMPKEYIARLVYDRS--H-LSMAVIRKpLTVVGITIRPFDP--KREFAEIVFCAISsteQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYA--IGY-FKKO-GFTKEITldksiw-MgyiKDYEGGtImqcsmlpriyld---  -MRFRPF-----TEEDLDRINRLA-G--K--RP-VSLGALRFFarTgHSFLAEEG-EEPMGFALAQAVWqgeATTVLVTRIEGR---S-VEALRGLRAVVKSAID-AGVYEVALHLPERKELEealkaegFALGPV-----IA---VRVL-----gsr</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=4.69 (Å)  kiefrvvndntkenmmvltgl-----KNIFOKLPKMPKEYIARLVYDRSHLSMAVIRKpLTVVGITIRPFDKR--EFAEIVFCAISsteQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFK---KQFTK-----eitldksiwmgikdyEGGtImqcsmlpri  -----mrfprfteedLDRINRLAGRRvsLGALRFFARTGHSLAEE---GEEPMGFALAQAVWQGEATTVLVTRIEGR---SVEALRGLRAVVKSAIDAGVYEVALHLPERKELEealkaegFALGPVlavrvlgsr-----</p> <p>ryld  -----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=3.08% (4/130) simi=6.15% (8/130)  kiefrvvndntkenmmvltglknifqkqlpkmpkey---mrfprfteedldrlnrlagkrpvslgalrffartghsflaegeepmgfalqavwqgeattvlvtriegrsvéalrgllravvksaiaGVYEVALHLDperkelealkaegfalgpVlavrvlgsr-----  -----aissteqvrGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFKKQFTKEITldksiwmgikdyEGGtImqcsmlpriyld</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=2.58 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPKMPKEYIARLVYDR-SH-LSMAVIRKpLTVVGITIRPFDKR---EFAEIVFCAISsteQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIG-YF--KQ-O-GFTKEITldksiwmgikdyEGGtLMQCSMLPRIYLD  -MRFRPF-----TEEDLDRINRLA-G--K-R-P--VSLGALRFFARTGHSLAEEG-EEPMGFALAQAV-WQgeATTVLVTRIEGR---S-VEALRGLRAVVKSAID-AGVYEVALHLPER-KeLEealkaegFALGPV-----VLAVRVIGSR-----</p>
527	<p>lyghA (164)</p> <hr/> <p>2f5iA (167)</p>	C	9.15	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=3.21 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPKMPKEYIARLVYDRS--SHLSMAVIRKpLTVVGITIRPFDP--EFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYA--IGYFKKQFTKEITldksiw-MgyiKDYEGGtImqcsmlpriyld---  -KFVIRPAT---A-ADCSIDLRLIKELAYEYMEEQVI-LT-ekDLLeGfgehpFYHCLVAEVPKehwtpegHSIVGFAMYFTYDpwIGKLLYLEDFFVMSDYRGFIISEILKNLSQVAMR-CRCSMHFLVAeWNepSINFYRRRASDLS--seEG---W--RLFK-----id</p> <p>keyllkmat  -----</p> <p><b>SARST:</b> aliSize=138 (resi) RMSD=7.00 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPKMPKEYIARLVYDRS--SHLSMAVIRKpLTVVGITIRPFDP--FDKRE-EFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGYF---KQFTKEITldksiwmgikdyEGGtLMQCSMLPRIYLD  ---kFVIRPATAADCSIDLRLIKELAKYEMEEQVILTEKDLLEDGFGFhpFYHCLVAEVPKehwtpegHSIVGFAMYFTYDpwIGKLLYLEDFFVMSDYRGFIISEILKNLSQVAMR-CRCSMHFLVAEWNepSINFYRRRASDLS-----EEGWRFKIdkeyllkmat-----</p> <p><b>BLAST:</b> aliSize=42 (resi) iden=12.20% (20/164) simi=25.61% (42/164)  kiefrvvndntkenmmvltglknifqkqlpkmpkeyiarlvdrshlsmavirkpltvvggikfvirpataadcsdilrlikelakyeemeeqviltedkllledgfgfhpfyhclvaevpkehwtpeghsigvfyf---YRPH-DREFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGYF---KQFTKEITldksiwmgikdyEGGtLMQCSMLPRIYLD  -----kfyf---YRPH-DREFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGYF---KQFTKEITldksiwmgikdyEGGtLMQCSMLPRIYLD</p> <p>ITYADNYAIGYFKKQFTKEITldksiwmgikdyEGGtImqcsmlpriyld  VAEWepSINFYRRR-ASDLSSEEG-WRLFKIDKeyllkmat-----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.36 (Å)  kIEFRVvndntkenMMVLTGLKNIFOKLPKMPKEYIARLVYDRS--SHLSMAVIRKpLTVVGITIRPFDP--FDKRE-EFAEIVFCATSSSTEQVRGYGAHLMNHKDYVRNtSNIKYFLTYADNYAIGYF---KQFTKEITldksiwmgikdyEGGtLMQCSMLPRIYLD  -KFVIRPAT---A-ADCSIDLRLIKELAYEYMEEQV--ILtekd--LLeGfgehpFYHCLVAEVPKehwtpegHSIVGFAMYFTYDpwIGKLLYLEDFFVMSDYRGFIISEILKNLSQVAMR-CRCSMHFLVAeWNepSINFYRRRASDLS-----EEGWRFKIDKeyllkmat-----</p> <p>R-YLd  KmAT-</p>



528	<p>1yghA (164)</p> <p>2g3tA (169)</p>	C	<p>10.37</p> <p>TM-align: aliSize=132 (resi) RMSD=3.22 (Å)  KIEFRVNNdnTKENMMVLTGKNI FOKLPKMPKEYiARl--VY--DR----SHLSMAVIRKP-----LTVVGGITRPFDK---REFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYAD-NY--AIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld--  KFVIRPAT---A-ADCSIDLRLIKELAYEYMEEQVI-LT-ekDLLeGfgehpfYHCLVAEVPKehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAeWNepSINFYRRRASDLS--seEG--W--RLFK-----id</p> <p>keyllkmatee</p> <p>SARST: aliSize=128 (resi) RMSD=7.32 (Å)  kiefrvvnndntke-----NMMVLTGKNI FOKLPKMPKEYiARlVYDR--SHLSMAVIRKPLT-----VVGGITRPF--FDKREFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFK---KOFKKEITLDKSiwmevikdYEGGTLMOCSS-----  -----kfvirpataadCSIDLRLIKELAYEYMEEQVI L TEKDLLEDGfGehpfYHCLVAEVPKehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAEWNepSINFYRRRAS-----DLSS-----EEGWRFLKIDkeyll</p> <p>-----mlpriryld  kmatee-----</p> <p>BLAST: aliSize=42 (resi) iden=12.20% (20/164) simi=25.61% (42/164)  kiefrvvnndntkenmmvltglnkfqqkpkmpkeyiarlvdrshlsmavirkpltvvggi-----TYRPF-DKREFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  -----kfvirpataadcsdilrlikelakyeymeeqviltkdllledgfhclvaevpkehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAEWNepSINFYRRRASDLS--seEG--W--RLFK-----id</p> <p>ITYADNY-AIGYFKKOFKKEITLDKSiwMgyIKDYeggtlmqcsmlpriryld  VAEWepSINFYRRRASDLSSSEEG-WRLFKIDKeyllkmatee-----</p> <p>Proposed: aliSize=137 (resi) RMSD=2.48 (Å)  KIEFRVNNdnTKENMMVLTGKNI FOKLPKMPKEYiARl--VY--DR----SHLSMAVIRKP-----LTVVGGITRPFDK---REFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYAD-NY--AIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  KFVIRPAT---A-ADCSIDLRLIKELAYEYMEEQVI--LTekd--LLeGfgehpfYHCLVAEVPKehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAeWNepSINFYRRRASD-----LsEEGW-RLFKIDKeyllkm</p> <p>RIRYld  ATEE--</p>
529	<p>1yghA (164)</p> <p>2g3tB (168)</p>	C	<p>9.15</p> <p>TM-align: aliSize=132 (resi) RMSD=3.22 (Å)  KIEFRVNNdnTKENMMVLTGKNI FOKLPKMPKEYiARl--VY--DR----SHLSMAVIRKP-----LTVVGGITRPFDK---REFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYAD-NY--AIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld--  KFVIRPAT---A-ADCSIDLRLIKELAYEYMEEQVI-LT-ekDLLeGfgehpfYHCLVAEVPKehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAeWNepSINFYRRRASDLS--seEG--W--RLFK-----id</p> <p>keyllkmatee</p> <p>SARST: aliSize=136 (resi) RMSD=6.64 (Å)  kiefrvvnndntkenmmvltglnkfqqkpkmpkeyiarlvdrshlsmavirkpltvvggi-----TYRPF-DKREFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  -----kfvirpataadCSIDLRLIKELAYEYMEEQVI L TEKDLLEDGfGehpfYHCLVAEVPKehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAEWNepSINFYRRRAS-----DLSS-----EEGWRFLKIDkeyllkmatee-----</p> <p>riryld  -----</p> <p>BLAST: aliSize=42 (resi) iden=12.20% (20/164) simi=25.61% (42/164)  kiefrvvnndntkenmmvltglnkfqqkpkmpkeyiarlvdrshlsmavirkpltvvggi-----TYRPF-DKREFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  -----kfvirpataadcsdilrlikelakyeymeeqviltkdllledgfhclvaevpkehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAEWNepSINFYRRRASDLS--seEG--W--RLFK-----id</p> <p>ITYADNY-AIGYFKKOFKKEITLDKSiwMgyIKDYeggtlmqcsmlpriryld  VAEWepSINFYRRRASDLSSSEEG-WRLFKIDKeyllkmatee-----</p> <p>Proposed: aliSize=136 (resi) RMSD=2.35 (Å)  KIEFRVNNdnTKENMMVLTGKNI FOKLPKMPKEYiARl--VY--DR----SHLSMAVIRKP-----LTVVGGITRPFDK---REFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYAD-NY--AIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  KFVIRPAT---A-ADCSIDLRLIKELAYEYMEEQVI--LTekd--LLeGfgehpfYHCLVAEVPKehwtpegHSIVGFAMFYFTYDpwIGKLLYLEDFVMSDYRGFITSEILKNLSQVAMR-CRCSSMHFLVAeWNepSINFYRRRASD-----LsEEGW-RLFKIDKeyll</p> <p>R-YL-d  kmATE-</p>
530	<p>1yghA (164)</p> <p>2o28B (180)</p>	C	<p>10.37</p> <p>TM-align: aliSize=126 (resi) RMSD=3.39 (Å)  pdetpmfdpsllkevdsqntatfspaispthpgeGLVLRPL-----CTAD-LnrFFKVLGQLTE--TGVSspeQF-mkSfEhmKksgdYVTVVEDVTIGQIVATA-LIIEHkFIHScAKRGRVEDVVVSDCRGQLKLLSTLTLLSKK-LCYKITLECLPQNVGFYKGFYVSE-----  wmgylkDYeggtlmqcsmlpriryld-  -----nYMCRR-----f</p> <p>SARST: aliSize=109 (resi) RMSD=9.32 (Å)  kiefrvvnndntkenmmvltglnkfqqkpkmpkeyiarlvdrshlsmavirkpltvvggi-----NNDNTKENMMVLTGKNI FOKLPKMPKEYiARlVYDR--SHLSMAVIRKPLT-----VVGGITRPF--FDKREFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  -----pdetpmfdpsllkevdsqntatfspaispthpgeGLVLRPLCTAD-LnrFFKVLGQLTE--TGVSspeQF-mkSfEhmKksgdYVTVVEDVTIGQIVATA-LIIEHkFIHScAKRGRVEDVVVSDCRGQLKLLSTLTLLSKK-LCYKITLECLPQNVGFYKGFYVSE-----</p> <p>QFKEITLdkSiwmgikdyeggtlmqcsmlpriryld  FYV-----VSEENymcrrf-----</p> <p>BLAST: aliSize=20 (resi) iden=7.32% (12/164) simi=12.20% (20/164)  kiefrvvnndntkenmmvltglnkfqqkpkmpkeyiarlvdr-----SHLSMAVIRKPLTVVGGITRPFDK---REFAEIVFCAISSTEQVRGYAHLMNHKDYVRNtSNIKYFLTYADNYAIGYFKKOFKKEITL--DKSiwMgyIKDYeggtlmqcsmlpriryld  -----pdetpmfdpsllkevdsqntatfspaispthpgeGLVLRPLCTAD-LnrFFKVLGQLTE--TGVSspeQF-mkSfEhmKksgdYVTVVEDVTIGQIVATA-LIIEHkFIHScAKRGRVEDVVVSDCRGQLKLLSTLTLLSKK-LCYKITLECLPQNVGFYKGFYVSE-----</p> <p>-----rntsnikyfltyadnyaigyfkqgftkEITLdkSiwmgikdyeggtlmqcsmlpriryld  skklncykitleclpqnvgfykkgfytvseenymcrrf-----</p> <p>Proposed: aliSize=123 (resi) RMSD=2.43 (Å)  pdetpmfdpsllkevdsqntatfspaispthpgeGLVLRPL-----CTAD-LnrFFKVLGQLTE--ETGv--Vspeq--FmkSfEhmKksgdYVTVVEDVTIGQIVATA-LIIEHkFIHScAKRGRVEDVVVSDCRGQLKLLSTLTLLSKK-LCYKITLECLPQNVGFYKGFYVSE-----  dkSiwmgikdyeggtlmqcsmlpriryld  -----EENYMCRRf-----</p>

531	<p>1yghA (164)</p> <hr/> <p>2vbqB (144)</p>	C	8.33	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.72 (Å)  kiefrvvnndntkeMMVITGLKNI FOKQLKMPKEYIARLVYDR--S--HL S MAVIRKpLTVVIGITYRPFDK-----REFAEIVFCATISSTEQVRGYGAH MNHLKDYVRnTSNIKYFLTYAD-NY--AIGYFKKQGFTEitldksiwmgyik---DYeggtlmqcsmlpriyld----</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=4.19 (Å)  kiefrvvnndntkenmmv-----ITGLKNI FOKQLKMPKEYIARLVYDR--S--HL S MAVIRKpLTVVIGITYRPFDK-----REFAEIVFCATISSTEQVRGYGAH MNHLKDYVRnTSNIKYFLTYADNYAIGYFKKQGFTEitldksiwmgyikdyeggtlmqcsmlpriyld-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=6.25% (9/144) simi=9.72% (14/144)  kiefrvvnndntkenmmvltglknifqkqlpkmpkeyiarlvdrshlsmavirkpltvvggityrpfdkrefaeivfcaissseqvrgyahlm-----di r qm k t h l e h w r g l r k q l w p g h p d d a h l a d g e e i l q a d h l a s f a m a d - g v a i c f a d a s i r h d y n g c d s s p v v f l e g i f v l p s f r o r g v a k o l i a a v q r w g t - n k g c r e m a s d t s p e n t i s o k v h q a l g f e e t e ----- r v i f y ----- r k r c -----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.37 (Å)  kiefrvvnndntkeMMVITGLKNI FOKQLKMPKEYIARLVYDR--RS--HL S MAVIRKpLTVVIGITYRPFDK-----REFAEIVFCATISSTEQVRGYGAH MNHLKDYVRnTSNIKYFLTYAD-NY--AIGYFKKQGFTEitldksiwmgyikdyeggtlmqcsmlpriyld-----</p>
532	<p>1yghA (164)</p> <hr/> <p>2vxkA (165)</p>	C	10.37	<p><b>TM-align:</b> aliSize=124 (resi) RMSD=3.22 (Å)  entplfspslispdvlavlpadytirplcrsdykrlydvlrvltvgdineeqwnsryewirarsdeyylldvcdgegrivgtgslvverkfihslgmvgheidiavekgoqgkklrlriqaldyvaekv-gcyktildcseaneifyicgckrag-----temahy-----</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.62 (Å)  entplfspslispdvlavlpadytirplcrsdykrlydvlrvltvgdineeqwnsryewirarsdeyylldvcdgegrivgtgslvverkfihslgmvgheidiavekgoqgkklrlriqaldyvaekv-gcyktildcseaneifyicgckrag-----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=8.54% (14/164) simi=15.24% (25/164)  entplfspslispdvlavlpadytirplcrsdykrlydvlrvltvgdineeqwnsryewirarsdeyylldvcdgegrivgtgslvverkfihslgmvgheidiavekgoqgkklrlriqaldyvaekv-gcyktildcseaneifyicgckrag-----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.28 (Å)  entplfspslispdvlavlpadytirplcrsdykrlydvlrvltvgdineeqwnsryewirarsdeyylldvcdgegrivgtgslvverkfihslgmvgheidiavekgoqgkklrlriqaldyvaekv-gcyktildcseaneifyicgckrag-----</p>
533	<p>1yk3A (198)</p> <hr/> <p>1s3zB (145)</p>	C	12.41	<p><b>TM-align:</b> aliSize=141 (resi) RMSD=2.91 (Å)  addalvrlarerfdlpdqvrllarppvpslepPYGLRVAQLTDA MLAEWMNRphAAawEYdWPASRWROHLNAOEgTYSLPLIGSWHCTDGYLELYWAAKdliSHYYDADPYDLG--HAAIaDL SKVnRGFGPLLPRIASVFANEPRIIMFPDHRNTATRRLCEWACKFLGHEdITNrm</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=7.35 (Å)  addalvrlarerfdlpdqvrllarppvpslepPYGLRVAQLTDA MLAEWMNRphAAawEYdWPASRWROHLNAOEgTYSLPLIGSWHCTDGYLELYWAAKdliSHYYDADPYDLG--HAAIaDL SKVnRGFGPLLPRIASVFANEPRIIMFPDHRNTATRRLCEWACKFLGHEdITNrm</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=18.62% (27/145) simi=33.10% (48/145)  addalvrlarerfdlpdqvrllarppvpslepPYGLRVAQLTDA MLAEWMNRphAAawEYdWPASRWROHLNAOEgTYSLPLIGSWHCTDGYLELYWAAKdliSHYYDADPYDLG--HAAIaDL SKVnRGFGPLLPRIASVFANEPRIIMFPDHRNTATRRLCEWACKFLGHEdITNrm</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=2.61 (Å)  addalvrlarerfdlpdqvrllarppvpslepPYGLRVAQLTDA MLAEWMNRphAAawEYdWPASRWROHLNAOEgTYSLPLIGSWHCTDGYLELYWAAKdliSHYYDADPYDLG--HAAIaDL SKVnRGFGPLLPRIASVFANEPRIIMFPDHRNTATRRLCEWACKFLGHEdITNrm</p>

534	<p>1yk3A (198)</p> <hr/> <p>1s5kA (153)</p>	C	13.07	<p><b>TM-align:</b> aliSize=141 (resi) RMSD=2.70 (Å)  addalvrlarerfdldpqvrrlarppvpsl---EP-P-YGLRVAQLTDAeMLAEWMNRphaaawEYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLG-HAAIaDLKVNrGFgplLPRIVASVFAN-EP-RCRRIMFDPHRNTATRRICEWA-CKFLGE  -----glvprGSHMDIROMNKTTHLE-HWRGLRKO-----WPGHDDAHLADGEEIQADHLASFIAMADVAIFADASIRHD---YVNGCDSSPVVFLGIFV-LPSFR--QR--GVAKQLIAAVQRWgTnkGCREMASITSPENIISQKVHQAALFEETER</p> <p>HDTNrmalyaleapt---  VIFYR-----krc</p> <p><b>SARST:</b> aliSize=141 (resi) RMSD=7.38 (Å)  addalvrlarerfdldpqvrrlarppvpslep---PYGLRVAQLTDAeMLaeWMNRPHAAAWYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLGLHAAIA---DLKVNRFgplLPRIVASVFANEP-RCRRIMFDPHRNTATRRICEWA-CKF1  -----glvprgshMDIROMNKTTHLEHW-----RGQRKQLWPGHDDAHLADGEEIQADHLASFIAMADVAIFADASI-----RHDYVNGCDSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTNKGCREMASITSPENIISQKVHQAALFEE-</p> <p>gehdtiNRRMALVALE-apt  -----TERVIFYRKRc---</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=17.65% (27/153) simi=31.37% (48/153)  addalvrlarerfdldpqvrrlarppvpsleppyglrvaqltdaemlaew-----NRPPIAAa-----EYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLG-HAAIaDLKVNRFgplLPRIVASVFANEP-RCRRIMFDPHRNTATRRICEWA-CKFLGE  -----glvprgshMDIROMNKTTHLEHW-----RGQRKQLWPGHDDAHLADGEEIQADHLASFIAMADVAIFADASIRHD---YVNGCDSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTNKGCREMASITSPENIISQKVHQAALFEE-</p> <p>CEWA-----ckflgehdtiNRRMALVALE-apt  HQALfeeterviFYRKRc-----</p> <p><b>Proposed:</b> aliSize=145 (resi) RMSD=2.58 (Å)  addalvrlarerfdldpqvrrlarppvpsl---EP-P-YGLRVAQLTDAeMLAEWMNRphaaawEYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLG-HAAIaDLKVNrGFgplLPRIVASVFAN-EP-RCRRIMFDPHRNTATRRICEWA-CKFLGEH  -----glvprGSHMDIROMNKTTHLE-HWRGLRKO-----WPGHDDAHLADGEEIQADHLASFIAMADVAIFADASIRHD---YVNGCDSSPVVFLGIFV-LPSFR--QR--GVAKQLIAAVQRWgTnkGCREMASITSPENIISQKVHQAALFEETERV</p> <p>DTNRRMALVALE-apt  VIFYRKRc-----</p>
535	<p>1yk3A (198)</p> <hr/> <p>2vbqB (144)</p>	C	13.19	<p><b>TM-align:</b> aliSize=138 (resi) RMSD=2.76 (Å)  addalvrlarerfdldpqvrrlarppvpsleppyGLRVAQLTDAeMLAEWMNRphAAAWYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLG-HAAIaDLKVNrGFgplLPRIVASVFAN-EP-RCRRIMFDPHRNTATRRICEWA-CKFLGEHDTN  -----DIROMNKTTHLE-HWRGLRKO-----WPGHDDAHLADGEEIQADHLASFIAMADVAIFADASIRHD---YVNGCDSSPVVFLGIFV-LPSFR--QR--GVAKQLIAAVQRWgTnkGCREMASITSPENIISQKVHQAALFEETERVIFYR-</p> <p>rmalyaleapt---  -----krc</p> <p><b>SARST:</b> aliSize=138 (resi) RMSD=7.42 (Å)  addalvrlarerfdldpqvrrlarppvpsleppyg-LVAQLTDAeMLaeWMNRPHAAAWYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLGLHAAIA---DLKVNRFgplLPRIVASVFANEP-RCRRIMFDPHRNTATRRICEWA-CKFLGEHdt  -----DIROMNKTTHLEHW-----RGQRKQLWPGHDDAHLADGEEIQADHLASFIAMADVAIFADASI-----RHDYVNGCDSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTN--KGCREMASITSPENIISQKVHQAALFEE-----</p> <p>NRRMALVALE-apt  TERVIFYRKRc---</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=18.75% (27/144) simi=33.33% (48/144)  addalvrlarerfdldpqvrrlarppvpsleppyglrvaqltdaemlaew-----NRPPIAAa-----EYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLG-HAAIaDLKVNRFgplLPRIVASVFANEP-RCRRIMFDPHRNTATRRICEWA-CKFLGEHDTN  -----diromnktthlehw-----rgqrkqlwpgHDDAHLADGEEIQADHLASFIAMADVAIFADASIRHD---YVNGCDSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTN--KGCREMASITSPENIISQKVHQAALFEETERVIFYR-</p> <p>-----ckflgehdtiNRRMALVALE-apt  ervifyrkr-----</p> <p><b>Proposed:</b> aliSize=141 (resi) RMSD=2.60 (Å)  addalvrlarerfdldpqvrrlarppvpsleppyGLRVAQLTDAeMLAEWMNRphAAAWYDWASRWROHLNAOEGTYSLPLIGSWHTDGYLELYWAAKdliSHYYDADPYDLG-HAAIaDLKVNrGFgplLPRIVASVFAN-EP-RCRRIMFDPHRNTATRRICEWA-CKFLGEHDTN  -----DIROMNKTTHLE-HWRGLRKO-----WPGHDDAHLADGEEIQADHLASFIAMADVAIFADASIRHD---YVNGCDSSPVVFLGIFV-LPSFR--QR--GVAKQLIAAVQRWgTnkGCREMASITSPENIISQKVHQAALFEETERVIFYR-</p> <p>RMALVALE-apt  KRC-----</p>
536	<p>1yr0A (163)</p> <hr/> <p>1s3zB (145)</p>	C	16.55	<p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.51 (Å)  sVELRDATVDDISGIEIYNDAVVnttaiwnEVVVLENRKDWFAAARTSRGFPVIVAILDCKVAGYSYGDWRADF-----GYRHTREH-SVYHKDARGHGIGRRLQALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFSFevgtkfgwldlTelkl----  -MDIRQMNKTHLEHWRLRKLQ-----GHPDdaHLADGEEILQADHLASFIAMADVAIFADASIRHDY-vngcdSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTNKGCREMASITSPENIISQKVHQAALFEETERVIFYR-----rkr</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=4.12 (Å)  sv-ELRDATVDDISGIEIYNDAVVnttaiwNEVVdLENRKDWFAAARTSRGFPVIVAILDCKVAGYSYGDWRADF-----DWRADFgyrHTREH-----SVYHKDARGHGIGRRLQALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFSFevgtkfgwldlTelkl  --mDIRQMNKTHLEHWRLRKLQ-----GHPDdaHLADGEEILQADHLASFIAMADVAIFADASIRHDY-vngcdSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTNKGCREMASITSPENIISQKVHQAALFEETERVIFYRKRc-----</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=16.55% (24/145) simi=26.90% (39/145)  svelrdatvddlsgieiyndavvnttaiwnevvvdenrkdwfaartsrgfpvi-----VAILDCKVAGYSYGDWRADF-----DWRADFgyrHTREH-----SVYHKDARGHGIGRRLQALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFSFevgtkfgwldlTelkl  -----mdiromnktthlehwrlrklqwpghpddahladgeeilqadhlasfiAMADVAIFADASIRHDY-vngcdSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTNKGCREMASITSPENIISQKVHQAALFEETERVIFYRKRc-----</p> <p>-----fs-  vifyrkr-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.04 (Å)  sVELRDATVDDISGIEIYNDAVVnttaiwnEVVVLENRKDWFAAARTSRGFPVIVAILDCKVAGYSYGDWRADF-----RHTREH-SVYHKDARGHGIGRRLQALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFSFevgtkfgwldlTelkl  -MDIRQMNKTHLEHWRLRKLQ-----GHPDdaHLADGEEILQADHLASFIAMADVAIFADASIRHDY-vngcdSSPVVFLGIFVLPFRQV--AKQLIAAVQRWGTNKGCREMASITSPENIISQKVHQAALFEETERVIFYRKRc-----</p>

537	<p>1yr0A (163)</p> <p>1s5kA (153)</p>	C	<p>16.99</p> <p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.43 (Å)  -----SVELRDAIVDDLSGI-EIYNDAVvnttaiwnEVVV--LENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWRAFDG-----YRHTREH-SVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl-----  glvprgshMDIRQMNKTHLHWRGLRKQLWP-----GHPDahHLADGEEILO--ADHLASFIAMADGVAITGFADASIRHDY--vngcdSSPVVFLGIFVLPSPFRQVAKOLIaVQRWGTNKGCREMASDTSPENTISQKVHQAALGFEETERVI-FY-----rkrc</p> <p><b>SARST:</b> aliSize=137 (resi) RMSD=4.08 (Å)  s-----VELRDAIVDDLSGI-EIYNDAVvnttaiwnEVVV--LENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWRAFDG-----YRHTREH-SVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGT--kfgrwldltcelkl  -glvprgshMDIRQMNKTHLHWRGLRK-----QLW---PGHPDahHLADGEEILOaDHLASFIAMADGVAITGFADASIRHDYVNGCDSSPVVFLGIFVLPSPFRQVAKOLIaVQRWGTNKGCREMASDTSPENTISQKVHQAALGFEETERVIIFYRKRc-----</p> <p><b>BLAST:</b> aliSize=39 (resi) iden=15.69% (24/153) simi=25.49% (39/153)  sveldratvddlsgeiyndavvnttaiwnevvvdlenrkdwfaartsrgfpvi-----VAI LDGKVAIYASYG---DW-RAFVGYRHTREHSVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  -----glvprgshmdi r qm n k t h l e h w r g l r k q l w p g h p d a h l a d g e e i l q a d h l a s f i a m a d g v a i t g f a d a s i r h d y v n g c d s s p v v f l e g i f v l p s p f r q v a k o l i a v q r w g t n k g c r e m a s d t s p e n t i s q k v h q a l g f e e t e r v i f y r k r c -----</p> <p>SLGFRVVG-----fs evgtkfgrwldltcelkl  ALGFEETERVI ifyrkr-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.02 (Å)  -----SVELRDAIVDDLSGIMEIYNDAVvnttaiwnEVVV--LENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWRAFDG-----RHTREH-SVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  glvprgshMDIRQMNKTHLHWRGLRKQLWP-----GHPDahHLADGEEILO--ADHLASFIAMADGVAITGFADASIR-HD--vngcdsSPVVFLGIFVLPSPFRQVAKOLIaVQRWGTNKGCREMASDTSPENTISQKVHQAALGFEETERVI-----IFYRKRcC</p>
538	<p>1yr0A (163)</p> <p>1z4eA (150)</p>	C	<p>19.33</p> <p><b>TM-align:</b> aliSize=139 (resi) RMSD=3.00 (Å)  SVELRDAIVDDLSGI-EIYNDAVvnttaiwneVVV--DLENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWraFDGY--RHTREHS-VYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl-  HVTIREATEGDLEQmVHMLADD--VL--GRKRERYekLPVSYVRAFKEIKKDKnNELIVACNGEEIVGMLQVTF--PYLTYqgSWRATIEgvrTHSAARGQIGSQVcWALERAKERGCHLIQLTTDKORPDALRFYEQLGFKASHEGL-KMH-----f</p> <p><b>SARST:</b> aliSize=137 (resi) RMSD=4.59 (Å)  s-VELRDAIVDDLSGIEIYND---AVVNTtaiwneVVV--DLENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWRAFDG--RHTREHSVY---VHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  -hVTIREATEGDLEQmVHMLADDvLGRKRERYEKLPVSYVRAFKEIKKDKNNEIIVACNGEEIVGMLQVTF--TPYLTYQGSWRATIEgvrTHSAARGQIGSQVcWALERAKERGCHLIQLTTDKORPDALRFYEQLGFKASHEGLkmhf-----</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=22.67% (34/150) simi=42.00% (63/150)  s-VELRDAIVDDLSGIEIYND---AVVNTtaiwneVVV--DLENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWRAFDG--RHTREHSVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  -hVTIREATEGDLEQmVHMLADDvLGRKRERYEKLPVSYVRAFKEIKKDKNNEIIVACNGEEIVGMLQVTF--TPYLTYQGSWRATIEgvrTHSAARGQIGSQVcWALERAKERGCHLIQLTTDKORPDALRFYEQLGFKASHEGLkmhf-----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=2.05 (Å)  SVELRDAIVDDLSGIMEIYNDAVvnttaiwneVVV--DLENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWrafdgYR-----HTREHS-VYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  HVTIREATEGDLEQmVHMLADD--VL--Gr-KRERYekLPVSYVRAFKEIKKDKNNEIIVACNGEEIVGMLQVTF-----TPyltyqgsWRATIEgvrTHSAARGQIGSQVcWALERAKERGCHLIQLTTDKORPDALRFYEQLGFKAS--H-----EGLKMHF-</p>
539	<p>1yr0A (163)</p> <p>2f5iA (167)</p>	C	<p>16.56</p> <p><b>TM-align:</b> aliSize=140 (resi) RMSD=3.00 (Å)  SVELRDAIVDDLSGI-EIYNDAVvnttaiwneVVV--VDLENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWraFDG--YRHTREH-SVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl-----  KFVIRPATAAACSDFLRLIKELAKYKEY--MEEQiLTKDLLEDGFG-EHPFYHCLVAEVPkehwtpeghSIVGFAMFYFT--YDpwIGKLLYLeDFVMSYRQFGIGSEILKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRRASDLSsseeGwrlfkikeyllkmat-----</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=4.30 (Å)  sv-ELRDAIVDDLSGIEIYNDVAVNTTtaiwneVVV--VDLENRKDWFAARTSRGFPVIVAILDQKVAIYASYGDWRAFDG--YRHTREH-SVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  --kfVIRPATAAACSDFLRLIKELAKYKEYMEEQVILT-----EKDLLEDGFGehpfyhCLVAEVPkehwtpeghSIVGFAMFYFT--TYDpwIGKLLYLeDFVMSYRQFGIGSEILKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRRASDLSsseeGwrlfkikeyllkmat-----</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=12.50% (20/163) simi=20.62% (33/163)  sveldratvddlsgeiyndavvnttaiwnevvvdlenrkdwfaartsrgfpvivaieldgk-----VAGYASIGDWRADFYG--RHTREHSVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  -----kfvirpataadcsdilrlikelakyeymeeqvilttekdllldgfghep f y h c l v a e v p k e h w t p e g h s i v g f a m f y f t y d p w i g k l l y l e d f f m s y r q f g i g s e i l k n s q v a m r c r c s s m h f l v a e w n e p s i n f y k r r a s d l s s e e g w r l f k i k e y l l k m a t -----</p> <p>aaieAENTASIRLHESL-----frvvgfrfsevgtkfgrwldltcelkl  A---EWNEPSINFYKRRASDLSsseeGwrlfkikeyllkmat-----</p> <p><b>Proposed:</b> aliSize=145 (resi) RMSD=2.22 (Å)  SVELRDAIVDDLSGIMEIYNDAVvnttaiwneVVV--VDLENRKDWFA---ARTsrgFPVIVAILDQKVAIYASYGDWrafdGY--RHTREH-SVYVHKDARGHGIGKRL-QALIDHAGGNDVHVLIAAIEAENTASIRLHESLGRVVGFRFSEVGTkfgrwldltcelkl  KFVIRPATAAACSDFLRLIKELAKYKEY--MEEQiLTKDLLEDGFGehpPF---YHCLVAEVPkehwtpeghSIVGFAMFYFT--YDpwIGKLLYLeDFVMSYRQFGIGSEILKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRRASDLSsseeGwrlfkikeyllkmat-----</p>

540	<p>1yr0A (163)</p> <hr/> <p>2g3tA (169)</p>	C	16.56	<p>TM-align: aliSize=141 (resi) RMSD=3.11 (Å)  SVELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAIL--DG----KVAIYASYGDWraFfG-YRHTREH-SVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----kidkeyllkmatee</p> <p>SARST: aliSize=128 (resi) RMSD=4.15 (Å)  sv--ELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAIL--DG----KVAIYASYGDWraFfG-YRHTREH-SVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----grfsevgtkfg</p> <p>rwldltcelkl</p> <p>BLAST: aliSize=33 (resi) iden=12.50% (20/163) simi=20.62% (33/163)  sveldatvddlsgieiyndavvnttaiwnevvvdlenrkdwfaartsrgfpvivailldgk-----VAGYASIGdWRAFDGY--RHTREHSVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----grfsevgtkfg</p> <p>faieAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl</p> <p>Proposed: aliSize=144 (resi) RMSD=2.21 (Å)  SVELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAIL--DG----KVAIYASYGDWraFfG-YRHTREH-SVYVHKDARGHGIGKRLMOALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----M-EL--KL-</p>
541	<p>1yr0A (163)</p> <hr/> <p>2g3tB (168)</p>	C	15.95	<p>TM-align: aliSize=141 (resi) RMSD=3.04 (Å)  SVELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAILDG-----KVAIYASYGDWraFfG-YRHTREH-SVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----kidkeyllkmatee</p> <p>SARST: aliSize=131 (resi) RMSD=4.05 (Å)  sv--ELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAILDG-----KVAIYASYGDWraFfG-YRHTREH-SVYVHKDARGHGIGKRLMOALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----grfsevgtkfgRwldltcelkl</p> <p>lcelkl</p> <p>BLAST: aliSize=33 (resi) iden=12.50% (20/163) simi=20.62% (33/163)  sveldatvddlsgieiyndavvnttaiwnevvvdlenrkdwfaartsrgfpvivailldgk-----VAGYASIGdWRAFDGY--RHTREHSVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----grfsevgtkfgRwldltcelkl</p> <p>faieAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl</p> <p>Proposed: aliSize=144 (resi) RMSD=2.11 (Å)  SVELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAILDG-----KVAIYASYGDWraFfG-YRHTREH-SVYVHKDARGHGIGKRLMOALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----ME-L--KL-</p>
542	<p>1yr0A (163)</p> <hr/> <p>2vbqA (147)</p>	C	17.01	<p>TM-align: aliSize=133 (resi) RMSD=2.46 (Å)  S-VELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAILDGKVAIYASYGDWraFfG----YRHTREH-SVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----rkrc</p> <p>SARST: aliSize=137 (resi) RMSD=4.23 (Å)  s--VELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAILDGKVAIYASYGDWraFfG----YRHTREH-SVYVHKDARGHGIGKRL-OALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl</p> <p>BLAST: aliSize=39 (resi) iden=16.33% (24/147) simi=26.53% (39/147)  sveldatvddlsgieiyndavvnttaiwnevvvdlenrkdwfaartsrgfpvivailldgk-----VAILDGKVAIYASYGDWraFfG----YRHTREH-SVYVHKDARGHGIGKRLMOALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----IFYRKRc</p> <p>VGR-----fsEvgtkfgRwldltcelkl</p> <p>Proposed: aliSize=138 (resi) RMSD=2.13 (Å)  S-VELRDATVDDLSGI-EIYNDVAVNNTaIWNVVDLENRKDWFAArTSRGFPVIVAILDGKVAIYASYGDWraFfG----YRHTREH-SVYVHKDARGHGIGKRLMOALIDHAGGNDVHVLIAAEAEENTASIRLHESLGRVVG--FSEVgTkfgRwldltcelkl-----IFYRKRc</p>

543	1yr0A (163)  2vxkA (165)	C	14.72	<p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.57 (Å) -----S-VELRDATVDLS-GI-ETIYNDAVVnttaiwneVVD-LNRKDWFAARTS-G-FPVIIVAIL-DKVAIYASYGDWraFDGY---RHTREHS-VYVHDARHGIGKRL-OALIDHGGNDVHVLAAIEAENTasIRLHESLGRVVRFS---evgtkfgrowthltdcelkl- entplfspslispdvlavlpadyTIRPLCRSDYKRYLDVLRVLT-----VGDInEQWNSRYEWIRAsDeYLLVCDgEGRIVTGLVVE--RKFHsIGMVGHIEdIAVEGQOKKLLIQAIDYVEKVGCKYKTLDCSEAN--EGFYIKCGFKRAGLEMAHY-----y</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=3.82 (Å) s-----VELRDATVDLSGIEIYNDAVVnttaiwneVVD-LNRKDWFAARTS-RGFPVIVAIL-DKVAIYASYGDWraFDGYRHTREHSV---YVHDARHGIGKRL-OALIDHGGNDVHVLAAIEAENTasIRLHESLGRVVRFS---evgtkfgrowthltdcelkl- -entplfspslispdvlavlpadyTIRPLCRSDYKRYLDVLRVLT-----RVLTTVGDIENEQWNSRYEWIRAsDEYYLLVVCdGEGRIVTGLVVE-ERKFHSLGMVGHIEdIAVEGQOKKLLIQAIDYVEKVGCKYKTLDCSEAN--EGFYIKCGFKRAGLEManyy-----</p> <p><b>BLAST:</b> aliSize=42 (resi) iden=14.38% (23/163) simi=26.25% (42/163) sveldatvddlsgieiyndavvnttaiwnevvvdlenrkdwaarts-----entplfspslispdvlavlpadytirplcrsdykRQFPVIVAILDgkVAGYASYGDWraFDGYRHTREHSVYVHDARHGIGKRL-OALIDHGGNDVHVLAAIEAENTasIRLHESLGRVVRFS---evgtkfgrowthltdcelkl- -----entplfspslispdvlavlpadytirplcrsdykRQFPVIVAILDgkVAGYASYGDWraFDGYRHTREHSVYVHDARHGIGKRL-OALIDHGGNDVHVLAAIEAENTasIRLHESLGRVVRFS---evgtkfgrowthltdcelkl- -----rwldltcelkl ktildseanegyikcgfkraglemahyy-----</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=2.32 (Å) -----S-VELRDATVDLS-GI-METIYNDAVVnttaiwneVVD-LNRKDWFAARTS-G-FPVIIVAIL-DKVAIYASYGDWraFDGY---RHTREHS-VYVHDARHGIGKRLMOALIDHGGNDVHVLAAIEAENTasIRLHESLGRVVRFS---evgtkfgrowthltdcelkl- entplfspslispdvlavlpadyTIRPLCRSDYKRYLDVLRVLT-----VGDInEQWNSRYEWIRAsDeYLLVCDgEGRIVTGLVVE--RKFHsIGMVGHIEdIAVEGQOKKLLIQAIDYVEKVGCKYKTLDCSEAN--EGFYIKCGFKRAGLEMAHY-Yc----- melkl -----</p>
544	1yvoA (169)  1z4eA (150)	C	18.67	<p><b>TM-align:</b> aliSize=138 (resi) RMSD=2.74 (Å) --STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROG-YPILVASDAAGVLYASYGDWRPFEGF---RGTVEHS-VYVRDDORCKGLVOLLOALIERARAOGLHV-VAAIESGNAASIGLHRRIGFEISGPOVQgkfgrowthltdfqlndptrsap- hvtTREATEGLEQMVHMLADD--VL--GRKRERYekpLPVSYVRAFKI IKDKKNELIVACNG-EEIVGMLQVTF--PYLTyqgSWRATIEgVTHSAARGOGISOLVCWATERAKERCHLIQLITDKQRPDALRFYEQLGFKASHHEGLKMH-----f</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=4.37 (Å) s---STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROGYPILVASDAAGVLYASYGDWRPFEGFRGTVEHSVY---VRDDORCKGLVOLLOALIERARAOGLHVVA-AIESGNAASIGLHRRIGFEISG-----qpqvqkfgrowthltdfqlndptrsap -hvtTREATEGLEQMVHMLADDLGRKRERYEKLPVSYVRAFKI IKDKKNELIVACNG-EEIVGMLQVTF--PYLTyqgSWRATIEgVTHSAARGOGISOLVCWATERAKERCHLIQLITDKQRPDALRFYEQLGFKASHHEglkmhf-----</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=21.33% (32/150) simi=42.00% (63/150) --STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROGYPILVASDAAGVLYASYGDWRPFEGFRGTVEHSVYVYVRDDORCKGLVOLLOALIERARAOGLHVVA-AIESGNAASIGLHRRIGFEISG-----rrlgfeisgqpqvqkfg hvtTREATEGLEQMVHMLADDLGRKRERYEKLPVSYVRAFKI IKDKKNELIVACNG-EEIVGMLQVTF--PYLTyqgSWRATIEgVTHSAARGOGISOLVCWATERAKERCHLIQLITDKQRPDALRFYEQLGFKASHHEglkmhf----- rwldltfqlndptrsap -----</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=1.92 (Å) --STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROG-YPILVASDAAGVLYASYGDWRPFEGF---RGTVEHS-VYVRDDORCKGLVOLLOALIERARAOGLHVVA-AIESGNAASIGLHRRIGFEISGmpqvqkfgrowthltdfqlndptrsap hvtTREATEGLEQMVHMLADD--VL--Gr--KRERYekpLPVSYVRAFKI IKDKKNELIVACNG-EEIVGMLQVTF--PYLTyqgSWRATIEgVTHSAARGOGISOLVCWATERAKERCHLIQLITDKQRPDALRFYEQLGFKASHHE-----EGLKMH-----</p>
545	1yvoA (169)  2f5iA (167)	C	17.96	<p><b>TM-align:</b> aliSize=139 (resi) RMSD=2.93 (Å) --STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROG-YPILVASDAAGVLYASYGDWRPFEGFRGTVEHS-VYVRDDORCKGLVOLLOALIERARAOGLHV-VAAIESGNAASIGLHRRIGFEISGPOVQgkfgrowthltdfqlndptrsap- kfvTPITAACSDLRLIKELAKYEY--MEEQVILTTEKDLLEDGFGEHPFHCLVAEVPKEHWTPegHSIVGFMYFT--YDPWIGKLLYLEDFEYMSYKGFITGSEIKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRCASDLSseegwrlfkidkeyllkmat-----kidkeyll</p> <p>---- kmat</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=3.88 (Å) s---STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROG-YPILVASDAAGVLYASYGDWRPFEGFRGTVEHS-VYVRDDORCKGLVOLLOALIERARAOGLHVVA-AIESGNAASIGLHRRIGFEISG-----sqpqvqkfgrowthltdfqlndptrsap -kfvTPITAACSDLRLIKELAKYEY--MEEQVILTTEKDLLEDGFGEHPFHCLVAEVPKEHWTPegHSIVGFMYFT--YDPWIGKLLYLEDFEYMSYKGFITGSEIKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRCASDLSseegwrlfkidkeyllkmat-----</p> <p><b>BLAST:</b> aliSize=59 (resi) iden=22.89% (38/167) simi=35.54% (59/167) s---STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROG-YPILVASDAAGVLYASYGDWRPFEGFRGTVEHS-VYVRDDORCKGLVOLLOALIERARAOGLHVVA-AIESGNAASIGLHRRIGFEISG-----feisqpqvqkfgrowthltdfqlndptrsap -kfvTPITAACSDLRLIKELAKYEY--MEEQVILTTEKDLLEDGFGEHPFHCLVAEVPKEHWTPegHSIVGFMYFT--YDPWIGKLLYLEDFEYMSYKGFITGSEIKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRCASDLSseegwrlfkidkeyllkmat-----</p> <p><b>Proposed:</b> aliSize=147 (resi) RMSD=2.35 (Å) --STRDAGVADLPGILATYNDAVGNTTAIWNETPV---DLANROAWFDTRAROG-YPILVASDAAGVLYASYGDWRPFEGFRGTVEHS-VYVRDDORCKGLVOLLOALIERARAOGLHVVA-AIESGNAASIGLHRRIGFEISGmpqvqkfgrowthltdfqlndptrsap kfvTPITAACSDLRLIKELAKYEY--MEEQVILTTEKDLLEDGFGEHPFHCLVAEVPKEHWTPegHSIVGFMYFT--YDPWIGKLLYLEDFEYMSYKGFITGSEIKNSQVAMRCRCSSMHFLVAEWNEPSINFYKRCASDLS-----SEGWRLKIDKEYILKmat---</p>

546	<p>1yvoA (169)</p> <hr/> <p>2fe7B (166)</p>	C	18.07	<p>TM-align: aliSize=139 (resi) RMSD=3.03 (Å)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEG--FRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHV-VAAIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  enlyfqghmtLEIRPVPAAAEQILAFIIEELADYERARHEVVTIVVEGIRRSLEFA-EGSPTRALMCLSE--GRPIGYAVFFYSY--STWlGRNGIYLEDLYVTPEYRCVGAARRLRELAREAVANDCGRLWVSLDWNQPAIDFYRSIHALPODEWVRY-----</p> <p>SARST: aliSize=130 (resi) RMSD=4.26 (Å)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH--SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEI-----s---gppqvqkfgwrldlt  -enlyfqghmtLEIRPVPAAAEQILAFIIEELADYERARHEVVTIVVEGIRRSLEFA-EGSPTRALMCLSE--GRPIGYAVFFYSY--STWlGRNGIYLEDLYVTPEYRCVGAARRLRELAREAVANDCGRLWVSLDWNQPAIDFYRSIHALPODEWVRY-----ridgealrkmae-----  fqlndptrsap  -----</p> <p>BLAST: aliSize=62 (resi) iden=25.30% (42/166) simi=37.35% (62/166)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  -enlyfqghmtLEIRPVPAAAEQILAFIIEELADYERARHEVVTIVVEGIRRSLEFA-EGSPTRALMCLSE--GRPIGYAVFFYSY--STWlGRNGIYLEDLYVTPEYRCVGAARRLRELAREAVANDCGRLWVSLDWNQPAIDFYRSIHALPODEWVRY-----ridgealrkmae-----  dltfqlndptrsap  -----</p> <p>Proposed: aliSize=146 (resi) RMSD=2.38 (Å)  ---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  enlyfqghmtLEIRPVPAAAEQILAFIIEELADYERARHEVVTIVVEGIRRSLEFA-EGSPTRALMCLSE--GRPIGYAVFFYSY--STWlGRNGIYLEDLYVTPEYRCVGAARRLRELAREAVANDCGRLWVSLDWNQPAIDFYRSIHALPODEWVRY-----ridgealrkmae-----</p>
547	<p>1yvoA (169)</p> <hr/> <p>2g3tB (168)</p>	C	18.45	<p>TM-align: aliSize=139 (resi) RMSD=2.91 (Å)  ---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHV-VAAIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  kfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyll  -----  kmate</p> <p>SARST: aliSize=128 (resi) RMSD=3.91 (Å)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  -kfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyllkmate-----  ldltfqlndptrsap  -----</p> <p>BLAST: aliSize=59 (resi) iden=22.89% (38/168) simi=35.54% (59/168)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  -kfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyllkmate-----  wldltfqlndptrsap  -----</p> <p>Proposed: aliSize=149 (resi) RMSD=2.34 (Å)  ---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  kfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyllkmate-----</p>
548	<p>1yvoA (169)</p> <hr/> <p>2jevA (169)</p>	C	17.75	<p>TM-align: aliSize=139 (resi) RMSD=3.01 (Å)  ---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHV-VAAIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  akfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyll  -----  lkmate</p> <p>SARST: aliSize=129 (resi) RMSD=3.71 (Å)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  -akfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyllkmate-----  ldltfqlndptrsap  -----</p> <p>BLAST: aliSize=59 (resi) iden=22.89% (38/169) simi=35.54% (59/169)  s---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  -akfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyllkmate-----  rwdltfqlndptrsap  -----</p> <p>Proposed: aliSize=147 (resi) RMSD=2.30 (Å)  ---S---RDAGVADLPG---LAAYNDVAVGNTTATWNETP-VDLANROAWFDT-rAROGYPI-VASDAA-----GVLGYASVGDWRpFEGFRGTVEH-SVYVRDORCKLIVOLVLAIERARAOGLHVVA-AIESGNAASIGLHRLRFEISGPOVGGqkfgwrldltfqlndptrsap-----ridgealrkmae  akfv---P---TAAACSD---LRLIKELAKYEY--MEEQVILTEKDLELDGFG-EHPFHCLVAEVPKehwtpEGHSIVGFAMFYFTY-D-PwIGKLLYLEDFVMSYRQFICSEILKN---SOVAMRCRCSSMhFLVAEWNEPSINFYKRRASDLSSegwrlf-----kidkeyllkmate-----</p>

549	IyvsA (108)	N	22.11	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.60 (Å)  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvap-----GKSI--GGDI--SNREGKLPKSGRTWRADINYS-SGFRNSDRILYSSDW-LIYKTTDHYQTFTKR---  -----vsgtvclsalppeatdtlnliaSDGPFpysqDGVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdqtc</p> <p><b>SARST:</b> aliSize=68 (resi) RMSD=13.18 (Å)  vintfdgvadylqtyhklpdnyit-----KSEAQLGWVA-SKGNladvapgksigGDI--SNREGKLPKSG--RTWREADI-NYTS--GfrnSDRILYSSD-WLIYKTTDHYQTFTK-----ir  -----vsgtvclsalppeatdTLNLIASDGPFpysQD-----GVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIITGEATQEDYITGDHYATFSLIdqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=22.11% (21/95) simi=31.58% (30/95)  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvapgksig-----GDI--SNREGKLPKSGRTWRADINYS-SGFRN--SDRILYS-SDWLIYKTTDHYQTFTKI-----r  -----vsgtvclsalppeatdtlnliaSDGPFpysqDGVVFNRESVLPQSYGYHYEYTV-ITPgARTGTRRIITGeATQEDYITGDHYATFSLIdqtc-</p> <p><b>Proposed:</b> aliSize=82 (resi) RMSD=2.48 (Å)  viNtfdgvadylqtyhklpdNYITK--SeaQalgWVAS--KGN-LADVAPGKS---iGGDI--SNREGKLPKSG--gRTWREADINYS-SGFRNSDRILYSSDW-LIYKTTDHYQTFTKR---  --V-----SGTVCLIS--A---LPPEaTdtlnLIASDGPFpysqDGVVFNRESVLPQSY-GYHYEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdqtc</p>
550	IyvsA (108)	N	20.83	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.42 (Å)  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvap-----GKSI--GGDI--SNREGKLPKSGRTWRADINYS-SGFRNSDRILYSSDW-LIYKTTDHYQTFTKR---  -----dvsgtvclsalppeatdtlnliaSDGPFpysqDGVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdqtc</p> <p><b>SARST:</b> aliSize=75 (resi) RMSD=16.61 (Å)  vintf-----DGVADYIQTTHKLPDnyitkseaqalgwvaSKgnladvapgksIGGDI--SNREGKLPKSG--KSGRTWREADINYS-SGFRNSDRILYSS-DWLIYKTTDHYQTFTK-----ir  -----dvsgtvclsalppeATDTLNLIASDGPFp-----YS-----QDGVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIITGeATQEDYITGDHYATFSLIdqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=22.92% (22/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvapgksig-----GDI--SNREGKLPKSGRTWRADINYS-SGFRN--SDRILYS-SDWLIYKTTDHYQTFTKI-----r  -----dvsgtvclsalppeatdtlnliaSDGPFpysqDGVVFNRESVLPQSYGYHYEYTV-ITPgARTGTRRIITGeATQEDYITGDHYATFSLIdqtc-</p> <p><b>Proposed:</b> aliSize=80 (resi) RMSD=2.42 (Å)  viNtfdgvadylqtyhklpdNYITK--EAQalgWVAS--KGNiADVA-----pgksigGDI--SNREGKLPKSGRTWRADINYS-SGFRNSDRILYSSDW-LIYKTTDHYQTFTKR---  -DV-----SGTVCLISALP--PEATdtlnLIASDGPFpysqDGVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdqtc</p>
551	IyvsA (108)	N	20.83	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.40 (Å)  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvap-----GKS--IGGDI--SNREGKLPKSGRTWRADINYS-SGFRNSDRILYSSDW-LIYKTTDHYQTFTKR---  -----dvsgtvclsalppeatdtlnliaSDGPFpysqDGVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIICGEATqEDYITGDHYATFSLIdqtc</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.90 (Å)  vintfdgvadylqtyhklpdnyit-----KSEAQLGWVaskGNLadvapgksigGDI--SNREGKLPKSG--RTWREADINYS-SGFRNSDRILYSSD-WLIYKTTDHYQTFTK-----ir  -----dvsgtvclsalppeatdTLNLIASDGPF--PYSQ-----DGVVFNRESVLPQSYGYHYEYTVIT-PGARTGTRRIICGEATQEDYITGDHYATFSLIdqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=22.92% (22/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvapgksig-----GDI--SNREGKLPKSGRTWRADINYS-SGFRN--SDRILYS-SDWLIYKTTDHYQTFTKI-----r  -----dvsgtvclsalppeatdtlnliaSDGPFpysqDGVVFNRESVLPQSYGYHYEYTV-ITPgARTGTRRIICGeATQEDYITGDHYATFSLIdqtc-</p> <p><b>Proposed:</b> aliSize=80 (resi) RMSD=2.16 (Å)  viNtfdgvadylqtyhklpdNYITK--EAQalgWV--AS--KGNiADVA-----pgksigGDI--SNREGKLPKSG--RTWRADINYS-SGFRNSDRILYSSDW-LIYKTTDHYQTFTKR---  -DV-----SGTVCLISALP--PPEaTdtlnLIASDGPFpysqDGVVFNRESVLPQSYGYHYEYTVITPgARTGTRRIICGEATqEDYITGDHYATFSLIdqtc</p>
	IgmPA (96)			



552	<p>lyvsA (108)</p> <hr/> <p>li70A (96)</p>	N	22.92	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.38 (Å)  vintfdgvadylqtyhklpdnyi tkseaqalgwvaskgnladvap-----GKS-IGGDI FSNREGKLPgkSgRTWREADInYT-SGFRNSDRILYSSDW-LIYKTTDHYQTFtkR---  -----dvsgtvclsalppeatdtlnliasdgpFPYsQDGVVFQNRRESVLPtQSYGYHEHYTVITPgARTGTRRIITGEATqEDFYIGDHFATFSLIIdqtc</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.76 (Å)  vintfdgvadylqtyhklpdnyi t-----KSEAQALGWvaSKGNLadvapgks iGGDI FSNREGKLPgkSg-RTWREADInYTSGFRNSDRILYSSDW-LIYKTTDHYQTFtk-----ir  -----dvsgtvclsalppeatdtlnliasdgpFPYsQDGVVFQNRRESVLPtQSYGYHEHYTVIT-PGARTGTRRIITGEATqEDFYIGDHFATFSLIIdqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=21.88% (21/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyi tkseaqalgwvaskgnladvapgks iG-----GGDI FSNREGKLPgkSgRTWREADInYTSGFRN--SDRILYS-SDWLIYKTTDHYQTFtkI-----r  -----dvsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRRESVLPtQSYGYHEHYTV-ITPgARTrgTRRIITGEATQEDFYIGDHFATFSLIIdqtc-</p> <p><b>Proposed:</b> aliSize=82 (resi) RMSD=2.33 (Å)  vINtfdgvadylqtyhklpDNYITKSEAQALgWV-ASKgN--LaDVAPgKS----iGGDI FSNREGKLPgkSg-RTWREADInYT-SGFRNSDRILYSSDW-LIYKTTDHYQTFtkR---  -DV-----SGTVCLS-AL--PPeATD-TInL-IASD-GPfpysq-DGVVFQNRRESVLPtQ-SyGYHEHYTVITPgARTGTRRIITGEATqEDFYIGDHFATFSLIIdqtc</p>
553	<p>lyvsA (108)</p> <hr/> <p>li8vA (96)</p>	N	19.79	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.39 (Å)  vintfdgvadylqtyhklpdnyi tkseaqalgwvaskgnladvap-----GKS-IGGDI FSNREGKLPgkSgRTWREADInYT-SGFRNSDRILYSSDW-LIYKTTDHYQTFtkR---  -----dvsgtvclsalppeatdtlnliasdgpFPYsQDGVVFQNRRESVLPtQSYGYHEHYTVITPgARTGTRRIITGEATqEDFYIGDHFATFSLIIdqtc</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.77 (Å)  vintfdgvadylqtyhklpdnyi t-----KSEAQALGWvaSKGNLadvapgks iGGDI FSNREGKLPgkSg-RTWREADInYTSGFRNSDRILYSSDW-LIYKTTDHYQTFtk-----ir  -----dvsgtvclsalppeatdtlnliasdgpFPYsQDGVVFQNRRESVLPtQSYGYHEHYTVIT-PGARTGTRRIITGEATqEDFYIGDHFATFSLIIdqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=21.88% (21/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyi tkseaqalgwvaskgnladvapgks iG-----GGDI FSNREGKLPgkSgRTWREADInYTSGFRN--SDRILYS-SDWLIYKTTDHYQTFtkI-----r  -----dvsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRRESVLPtQSYGYHEHYTV-ITPgARTrgTRRIITGEATQEDFYIGDHFATFSLIIdqtc-</p> <p><b>Proposed:</b> aliSize=81 (resi) RMSD=2.27 (Å)  vINtfdgvadylqtyhklpdNYITK--seaqalgwVASKGN-LADVAP---GKSI---GGDI FSNREGKLPgkSg-RTWREADInYT-SGFRNSDRILYSSDW-LIYKTTDHYQTFtkR---  -DV-----SGTVCLS-----ALPPEATDTInLiasdGFPYsQDGVVFQNRRESVLPtQ-SyGYHEHYTVITPgARTGTRRIITGEATqEDFYIGDHFATFSLIIdqtc</p>
554	<p>lyvsA (108)</p> <hr/> <p>llovA (104)</p>	N	11.54	<p><b>TM-align:</b> aliSize=57 (resi) RMSD=2.88 (Å)  vintfdgvadylqtyhklpdnyi tkseaqal gwvaskgnladvap-----KS--IGGDI FSNREGKLPgkSgRTWREADIn-----YTSFRNSDRILYSSDWLI-YKTtDh-----YQTFtkir  -----acdycgsncysssdvstaqaagyklhedGETVGSnSYPHKYNNEGDFDfSVS-SPYYAWPLsSgdvYSGSPGADRvVFNENNQLaGVI-ThtgasgmnFVEct---</p> <p><b>SARST:</b> aliSize=80 (resi) RMSD=17.21 (Å)  vintfdgvadylqtyh---KLPDNYIT-KSEA-----QALGWVASKGNladvapGKSIggdIFSNREGKLPgkSgRTWREADIn-----YTSFRNSDRILYSSDWLI-YKTtDh--YQTFtk--ir  -----acdycGSNCYSsSDVStaqaagyklhedGETVGSN-----SYPH---KYNNEGDFDfSVSPYYAWPLsSgdvYSGSPGADRvVFNENNQLaGVIHTGasGNNFVEct--</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=17.31% (18/104) simi=23.08% (24/104)  vintf-----FDgVADYLQTYHKLDPDNYITK--EAQALGW-VASKGNladvapGKSIggdIFSNREGKLPg-----ksgrtwreadinytsgrnsdrilyssdwliykttdhyqtfkir  -----acdycgsncysssdvstaqaagyklhedGETVGSNSYPHKYNNEGDFDfSVSPYYAWPLlSSG---DVYSGGSPGADRvVFNENNQLaGVI-Thtgasgmnfvect-----</p> <p><b>Proposed:</b> aliSize=79 (resi) RMSD=2.84 (Å)  vint-----FDgVADYLqtyhKLP-DNYIT-KSEAQALGWVASKGN-ladvapgks iGGDI FSNREGKLPgkSgRTWREADIn-----YTSFRNSDRILYSSDWLI-YKTtDh-----YQTFtkir  ----acdycgsNC-Y--S-----SSDvSTAQAaGYKLhedGETVG-SNs-----YPHKYNNEGDFDfSVS--SPYYAWPLsSgdvYSGSPGADRvVFNENNQLaGVI-ThtgasgmnFVEct---</p>

555	<p><b>lyvsA (108)</b></p> <hr/> <p><b>lmgA (97)</b></p>	N	22.68	<p><b>TM-align: aliSize=63 (resi) RMSD=2.41 (Å)</b>  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvap-----GKSI--GDIIFSNRECKLPGKSGRTWREADINYT-SGFNSDRILYSSDW-LIKITDHYQTFKIR---  -----vkavgrvcysalpsqahdtldlidgegPPYsqDGVVFQNRRECLPAHSTGYHYEYTVITPgSPTRGARRIITGQOQEDYIADHYASRRVdfac</p> <p><b>SARST: aliSize=69 (resi) RMSD=13.09 (Å)</b>  vintfdgvadylqtyhklpdnyit-----KSEAQALGWvaSKGNLAdvapgksIGDIIFSNRECKLPGKSG--RTWREADI-NYTS--frnSDRILYSSD-WLIKIDHYQTFK-----ir  -----vkavgrvcysalpsqahdtLDLIDEGG--PPYSQ-----DGVVFQNRRECLPAHStGyHEYTVITpGSPTrg---ARRIITGQOQEDYIADHYASRRVdfac--</p> <p><b>BLAST: aliSize=30 (resi) iden=22.68% (22/97) simi=30.93% (30/97)</b>  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvapgksig-----GDIIFSNRECKLPGKSGRTWREADINYSIF--RNSDRILYSSDWL-IKIDHYQTFK-----r  -----vkavgrvcysalpsqahdtldlidgegpfysqDGVVFQNRRECLPAHSTGYHYEYTV-ITpGSptRGARRIITGQOQEDYIADHYASRRVdfac-</p> <p><b>Proposed: aliSize=84 (resi) RMSD=2.43 (Å)</b>  -VINtfdgvadylqtyhklpdNYITKSeaQalgWVAS-KGN-LADVAPgKS-----iGDIIFSNRECKLPGKSGRTWREADINYT-SGFNSDRILYSSDW-LIKITDHYQTFKIR---  vkAV-----GRVCYS--A---LPSQaHDTIDLIDEG-GPfpysq-DGVVFQNRRECLPAHStGYHYEYTVITPgSPTRGARRIITGQOQEDYIADHYASRRVdfac</p>
556	<p><b>lyvsA (108)</b></p> <hr/> <p><b>lmgwA (99)</b></p>	N	22.22	<p><b>TM-align: aliSize=63 (resi) RMSD=2.47 (Å)</b>  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvap-----GKSI--GDIIFSNRECKLPGKSGRTWREADINYT-SGFNSDRILYSSDW-LIKITDHYQTFKIR---  -----asvkavgrvcysalpsqahdtldlidgegPPYsqDGVVFQNRRECLPAHSTGYHYEYTVITPgSPTRGARRIITGQOQEDYIADHYASRRVdfac</p> <p><b>SARST: aliSize=69 (resi) RMSD=13.13 (Å)</b>  vintfdgvadylqtyhklpdnyit-----KSEAQALGWvaskGNLAdvapgksIGDIIFSNRECKLPGKSG--RTWREADI-NYTS--frnSDRILYSSD-WLIKIDHYQTFK-----ir  -----asvkavgrvcysalpsqahdtLDLIDEGGPF--PYSQ-----DGVVFQNRRECLPAHStGyHEYTVITpGSPTrg---ARRIITGQOQEDYIADHYASRRVdfac--</p> <p><b>BLAST: aliSize=30 (resi) iden=22.22% (22/99) simi=30.30% (30/99)</b>  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvapgksig-----GDIIFSNRECKLPGKSGRTWREADINYSIF--RNSDRILYSSDWL-IKIDHYQTFK-----r  -----asvkavgrvcysalpsqahdtldlidgegpfysqDGVVFQNRRECLPAHSTGYHYEYTV-ITpGSptRGARRIITGQOQEDYIADHYASRRVdfac-</p> <p><b>Proposed: aliSize=84 (resi) RMSD=2.43 (Å)</b>  vintfdgva-DYLqtyhklpdnYITKSeaQalgWVAS-KGN-LADVAPgKS-----iGDIIFSNRECKLPGKSGRTWREADINYT-SGFNSDRILYSSDW-LIKITDHYQTFKIR---  -----aSVK---AV---GRVCYS--A---LPSQaHDTIDLIDEG-GPfpysq-DGVVFQNRRECLPAHStGYHYEYTVITPgSPTRGARRIITGQOQEDYIADHYASRRVdfac</p>
557	<p><b>lyvsA (108)</b></p> <hr/> <p><b>lpylA (96)</b></p>	N	20.83	<p><b>TM-align: aliSize=63 (resi) RMSD=2.34 (Å)</b>  vintfdgvadylqtyhklpdnyitkseaqalgwvaskgnladvap-----GKSI--GDIIFSNRECKLPGKSGRTWREADINYT-SGFNSDRILYSSDWL-IKIDHYQTFKIR---  -----dpaladvcrtklpsqaqdtlaliakngPYPYnrDGVVFENRESRLPKKNGYHYEFTVVPgSNDRGTRRVVTGGYGEQWSPDHYATFOELDprc</p> <p><b>SARST: aliSize=71 (resi) RMSD=12.85 (Å)</b>  vintfdgvadylqtyhklpdnyit-----KSEAQALGWvaSKGNLAdvapgksIGDIIFSNRECKLPGKSG--RTWREADINyTSGFNSDRILYSSDWL-IKIDHYQTFK-----ir  -----paladvcrtklpsqaqdtLALIakng--PYPYnr-----DGVVFENRESRLPKKNGyHEFTVVP-GSNDRGTRRVVTGGYGEQWSPDHYATFOELDprc--</p> <p><b>BLAST: aliSize=46 (resi) iden=34.74% (33/96) simi=48.42% (46/96)</b>  vintfdg--VALYLQTYhklpdnyitkSEAQALGWvaSKGNLAdvapgksIGDIIFSNRECKLPGKSGRTWREADINYSIF--RNSDRILYSSDWL-IKIDHYQTFK-----r  -----paLADVCRt--KLF-----SQAQDTLALIAKNGPY---PYNR-DGVVFENRESRLPKKNGYHYEFTV-VITpSndRGTRRVVTGGYGEQWSPDHYATFOELDprc-</p> <p><b>Proposed: aliSize=82 (resi) RMSD=2.19 (Å)</b>  vintfdGVadylqtyhklPdNYITKSEAqALG-WVAS-KGNladv-----apgksIGDIIFSNRECKLPGKSGRTWREADINYT-SGFNSDRILYSSDWL-IKIDHYQTFKIR---  -----LPA-----L-ADVCRtKL--PSQAQDTIALI--Akngpypyr-----DGVVFENRESRLPKKNGYHYEFTVVPgSNDRGTRRVVTGGYGEQWSPDHYATFOELDprc</p>

558	<p><b>lyvsA</b> (108)</p> <hr/> <p><b>lt2iA</b> (96)</p>	N	22.92	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.48 (Å)  vintfdgvadylqtyhklpdnyi tkseaqlgwaskgnladvap-----GKSI--GDI FSNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -----dvsgtvclsalppeatdtlnliasdgpPPYsqDGVVFQNRRESVLPQSYGYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=18.10 (Å)  vintfdgvadylqt--YHKLPDNYIT----KSEAQALGWVASKGNLADVAPGKSiGDI FSNREGKLPKSG--RTWREADINYSGFRNSDRILYSSDW-LIKITDHYQITFK-----ir  -----dvSGTVCLSALPPEATDTLNLIASDGPFPYSQ-----DGVVFQNRRESVLPQSYGYHYEYTVIT-PGARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=23.96% (23/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyi tkseaqlgwaskgnladvapgksig-----GDI FSNREGKLPKSGRTWREADINYSGFRN--SDRILYSSDWLI-KITDHYQITFKI-----r  -----dvsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRRESVLPQSYGYHYEYTV-ITPgARTrgTRRIITGEAtQEDYITGDHYATFSLIDqtc-</p> <p><b>Proposed:</b> aliSize=84 (resi) RMSD=2.53 (Å)  vIntfdgvadylqtyhklpDNYITKSeAQalGWVASKGN-LADVAPGKS-----iGDI FSNREGKLPKSG--RTWREADINYSGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -DV-----SGTVCLS--L---PPEATDTLNLIASD-GPfpysq-DGVVFQNRRESVLPQ-SyGYYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc</p>
559	<p><b>lyvsA</b> (108)</p> <hr/> <p><b>luciA</b> (96)</p>	N	21.88	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.40 (Å)  vintfdgvadylqtyhklpdnyi tkseaqlgwaskgnladvap-----GKSI--GDI FSNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -----dtsgtvclsalppeatdtlnliasdgpPPYsqDGVVFQNRRESVLPQSYGYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=16.99 (Å)  vintfdgvadylqt--YHKLPDNYITKSEAQALGWVASKGNLADVAPGKS---IGDI FSNREGKLPKSG--RTWREADINYSGFRNSDRILYSSDW-LIKITDHYQITFK-----ir  -----dtSGTVCLSALPPEATDTLNLIASDGPFPYSQDGVVFQNRRESVLPQSYGYHYEYTVIT-PGARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=22.92% (22/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyi tkseaqlgwaskgnladvapgksig-----GDI FSNREGKLPKSGRTWREADINYSGFRN--SDRILYS-SDWLI-KITDHYQITFKI-----r  -----dtsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRRESVLPQSYGYHYEYTV-ITPgARTrgTRRIITGeATQEDYITGDHYATFSLIDqtc-</p> <p><b>Proposed:</b> aliSize=81 (resi) RMSD=2.27 (Å)  vIntfdgvadylqtyhklpDNYITKSeAQalGWV-AS--KqNIADVA-----pgksigDI FSNREGKLPKSGRTWREADINYSGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -DI-----SGTVCLSAL---PPEATDTLN-L-IASDgpfpysq-----DGVVFQNRRESVLPQSYGYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc</p>
560	<p><b>lyvsA</b> (108)</p> <hr/> <p><b>lucjA</b> (96)</p>	N	20.83	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.49 (Å)  vintfdgvadylqtyhklpdnyi tkseaqlgwaskgnladvap-----GKSI--GDI FSNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -----dvsgtvclsalppeatdtlnliasdgpPPYsqDGVVFQNRRESVLPQSYGYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc</p> <p><b>SARST:</b> aliSize=79 (resi) RMSD=18.30 (Å)  vintfdgvadylqt--YHKLPDNYIT----KSEAQALGWVASKGNLADVAPGKSiGDI FSNREGKLPKSG--RTWREADI-NYTS--GfrnSDRILYSSDW-LIKITDHYQITFK-----ir  -----dvSGTVCLSALPPEATDTLNLIASDGPFPYSQ-----DGVVFQNRRESVLPQSYGYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc--</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=22.92% (22/96) simi=30.21% (29/96)  vintfdgvadylqtyhklpdnyi tkseaqlgwaskgnladvapgksig-----GDI FSNREGKLPKSGRTWREADINYSGFRN--SDRILYS-SDWLI-KITDHYQITFKI-----r  -----dvsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRRESVLPQSYGYHYEYTV-ITPgARTrgTRRIITGeATQEDYITGDHYATFSLIDqtc-</p> <p><b>Proposed:</b> aliSize=80 (resi) RMSD=2.13 (Å)  vIntfdgvadylqtyhklpDNYITKSeAQalGWV-AS--KqNIADVAP-----gksigDI FSNREGKLPKSG--RTWREADINYSGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -DV-----SGTVCLSAL---PPEATDTLN-L-IASDgpfpysq-----DGVVFQNRRESVLPQ-SyGYYHYEYTVITPgARTGTRRIITGEAtQEDYITGDHYATFSLIDqtc</p>

561	<p>lyvsA (108)</p> <hr/> <p>luckA (96)</p>	N	21.88	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.38 (Å)  vintfdgvadylqtyhklpdnyi tkseaqalgwaskgnladvap-----GKSI-GDI-SNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -----dvsgtvclsalppeatdtlnliasdgpPPYsqDGVVFQNRSTLPTQSYGYHEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdqtc</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=17.06 (Å)  vintfdgvadylqt--YHKLPDNYITKSEAQAQlgwaskgnLADVAPGKS---IGCDI-SNREGKLPK-S-RTWREADINYSGFRNSDRILYSSD-WLIKIKITDHYQITFK-----ir  -----dvSGTVCLSAALPPEATDT-----NLIASDGPFPysQDGVVFQNRSTLPTQsYyYHEYTVIT-PGARTGTRRIITGEATQEDYITGDHYATFSLIdqtc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=22.92% (22/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyi tkseaqalgwaskgnladvapgksig-----GDI-SNREGKLPKSGRTWREADINYSGFRN--SDRILYS-SDWLIKIKITDHYQITFKI-----r  -----dvsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRSTLPTQSYGYHEYTV-ITPgARTrgTRRIITGEATQEDYITGDHYATFSLIdqtc-</p> <p><b>Proposed:</b> aliSize=83 (resi) RMSD=2.36 (Å)  vINtfdgvadylqtyhklpdNYITK-SeaQalgWVAS-KGN-LADVAPGKS-----iGCDI-SNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -DV-----SGTVCLSA--A--LPPEaTDTINLIASD-GPfpysq-DGVVFQNRSTLPTQSYGYHEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdqtc</p>
562	<p>lyvsA (108)</p> <hr/> <p>lynvX (96)</p>	N	21.88	<p><b>TM-align:</b> aliSize=62 (resi) RMSD=2.48 (Å)  vintfdgvadylqtyhklpdnyi tkseaqalgwaskgnladvap-----GKSI-GDI-SNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -----dvsgtvclsalppeatdtlnliasdgpPPYsqDGVVFQNRSTLPTQSYGYHEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdktc</p> <p><b>SARST:</b> aliSize=71 (resi) RMSD=12.94 (Å)  vintfdgvadylqtyhklpdnyi t-----KSEAQALGWVAskGNLadvapgksigGDI-SNREGKLPK-S-RTWREADINYSGFRNSDRILY-SSDWLIKIKITDHYQITFK-----ir  -----dvsgtvclsalppeatdTLNLIASDGPFP--PYSQ-----DGVVFQNRSTLPTQSYyYHEYTVIT-PGARTGTRRIITGEATQEDYITGDHYATFSLIdktc--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=22.92% (22/96) simi=31.25% (30/96)  vintfdgvadylqtyhklpdnyi tkseaqalgwaskgnladvapgksig-----GDI-SNREGKLPKSGRTWREADINYSGFRN--SDRILYS-SDWLIKIKITDHYQITFKI-----r  -----dvsgtvclsalppeatdtlnliasdgpfpysqDGVVFQNRSTLPTQSYGYHEYTV-ITPgARTrgTRRIITGEATQEDYITGDHYATFSLIdktc-</p> <p><b>Proposed:</b> aliSize=81 (resi) RMSD=2.37 (Å)  vINtfdgvadylqtyhklPDnYITKSEAQalGWVA-S-KGNladvA-----pgksiGDI-SNREGKLPKSGRTWREADINYT-SGFRNSDRILYSSDW-LIKITDHYQITFKIR---  -DV-----SG-TVCLSAALP--PEATdTLNLI--ASDgpfpysq-----DGVVFQNRSTLPTQSY-GYHEYTVITPgARTGTRRIITGEATqEDYITGDHYATFSLIdktc</p>
563	<p>lz3aA (156)</p> <hr/> <p>lwkqB (155)</p>	C	26.45	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=2.14 (Å)  sevefSHEYWMRHALTLAKRAWDER-EVEVAVLHNNRVTGEGWNRPIGRHDPATAHAHIMALROGGLVMONRIIDATLYVTLEPCVNCAGAMIHSRIGRIVFGARDAKTGAAG-----K-----TGAaSLMd-VIhhpgmnhrveitegiladecaallsdffrmrreik-----  -----NHEFTLKRAVTLACEGVNAGIGGPFSAVINKDGAITAEQNNVTTSNDEPTAHAEVTAIRKACKVLGALQDLCILYTSCEPCPCLGAIYWARPKAFYAAEHtdaaeagfddsfiykeIDKPAEERTIP--FYQVTLTEHLSPFQWRnfankkey-----dkpaertipfyqvtltehlsfpqa</p> <p>-----  wrnfankkey</p> <p><b>SARST:</b> aliSize=136 (resi) RMSD=14.81 (Å)  sevefSHEYWMRHALTLAKRAWDER-EVEVAVLHNNRVTGEGWNRPIGRHDPATAHAHIMALROGGLVMONRIIDATLYVTLEPCVNCAGAMIHSRIGRIVFGARDAKTGAAG-----SLMDVLIHHPGMnhRVEITEGILADECAALL-----sdffrmrreik  -----NHEFTLKRAVTLACEGVNAGIGGPFSAVINKDGAITAEQNNVTTSNDEPTAHAEVTAIRKACKVLGALQDLCILYTSCEPCPCLGAIYWARPKAFYAAEHtdAAEAGfddsfiykeIDKPAEERTIP--FYQVTLTEHLSPFQWRnfankkey-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=27.10% (42/155) simi=39.35% (61/155)  sevefSHEYWMRHALTLAKRAWDER-EVEVAVLHNNRVTGEGWNRPIGRHDPATAHAHIMALROGGLVMONRIIDATLYVTLEPCVNCAGAMIHSRIGRIVFGARDAKTGAAG-----sldvllhpgmnhrveitegiladecaall  -----NHEFTLKRAVTLACEGVNAGIGGPFSAVINKDGAITAEQNNVTTSNDEPTAHAEVTAIRKACKVLGALQDLCILYTSCEPCPCLGAIYWARPKAFYAAEHtdAAEAGfddsfiykeidkpaertipfyqvtltehlsfpqawrnfankkey-----</p> <p>sdffrmrreik  -----</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=1.70 (Å)  sevefSHEYWMRHALTLAKRAWDER-EVEVAVLHNNRVTGEGWNRPIGRHDPATAHAHIMALROGGLVMONRIIDATLYVTLEPCVNCAGAMIHSRIGRIVFGARDAKTGAAG-----ktgaagslmdV--LHhPeMNHrVEITEGILADECAALLSDFRMR--qeik  -----NHEFTLKRAVTLACEGVNAGIGGPFSAVINKDGAITAEQNNVTTSNDEPTAHAEVTAIRKACKVLGALQDLCILYTSCEPCPCLGAIYWARPKAFYAAEHtdaaeagfddsfiyke-----IdkPAE-E-RTIPFYQVTLTEHLSPFQAWRN--ANKKey----</p>

564	<p><b>1z4rA</b> (163)</p> <hr/> <p><b>1qsmD</b> (152)</p>	C	14.47	<p><b>TM-align:</b> aliSize=130 (resi) RMSD=3.20 (Å)  s--GI EFHVI Gns ltpkanr RVLLWLVG IONVFS HQ LPRMPKEY--IARLVDP----K-HKTLALIK--DGRVIGGICRMFP---TOGFTFVFCATTSNEOVKGYTHMNLKEYHIHNILYFLTYADH-Y--IGYFKOGFSKDIKvpksry--LgyikDYEgatlmecelnpr--  --sedNITVRFVT-----E-NDKEGWQRWKSQYD-FYEV SFPdLDDFN-GRfldpnIkMWA AVAVEssSEKIIGMNFNHMtwdFKDKIYNLDYDENSRVKGAGKIQFVYDEADLGTSPSVYWCTDhSnhRQQLLYVNVGYKAPK-----iIY----KRR-----gy</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=4.14 (Å)  sgie fhvignsltpkanrr-----VLLLVGLONVFSHQLPRM-----KEYIARLVFDPK--HKTALALIK--DGRVIGGICRMFP--OGF---TEVFCATTSNEOVKGYTHMNLKEYHIHNILYFLTYADH-YAIGYFKO-----gfskdikvpksrylgvik  -----sednitvrfvtendKEGQRLWKSQYDFYEVSFddIDDFNFRFLDNIkMWA AVAVEssSEKIIGMNFNHMtwdFKdkIYNLDYDENSRVKGAGKIQFVYDEADLGTSPSVYWCTDhSNHRAQLLYvkvgykpkilyrkyg-----</p> <p><b>dyc</b>gatlmecelnpr  -----</p> <p><b>BLAST:</b> aliSize=17 (resi) iden=6.58% (10/152) simi=11.18% (17/152)  sgie fhvignsltpkanrrvllwlvglqnvfshqlprmpkeyiarlvfdpkhktlalikdgrviggicrfmftqgfteivfcav-----TTSNEOVKGYgTHLMNLKEYHIHNILYFLTYADH-----  -----sednitvrfvtendkegwqrlwksyqdfyevsfddlddfnfrfldpnikmwaavaveSSSEKIIGMNFNHTTDFDKIYNLDYDENSRVKGAGK-----</p> <p>-----yaigyfkkqgfskdikvpksrylgvikdycgatlmecelnpr  liqfvdeadklgtpsvywctdesnhraqllykvgykpkilyrkyg-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.19 (Å)  sg---IEFHVI Gns ltpkanrrVLLWLVIIONVFSHQLPRM-----YIARLVFD--P--K-HKTLALIK--DGRVIGGICRMFP--TO----GFTEVFCATTSNEOVKGYTHMNLKEYHIHNILYFLTYADH-Y--IGYFKOGFSKDIKvpksrylvikdvEGATMECEL--npra  --sedNITVRFV-----TENDKEWQRLWKSQYDFYEV SFPdLDDFNFRFLDpnlkMWA AVAVEssSEKIIGMNFNHT--MTwdfkDKIYNLDYDENSRVKGAGKIQFVYDEADLGTSPSVYWCTDhSnhRQQLLYVNVGYK-----APKIYKRGYg-----</p>
565	<p><b>1znpA</b> (140)</p> <hr/> <p><b>1ep0A</b> (183)</p>	N	10.71	<p><b>TM-align:</b> aliSize=99 (resi) RMSD=2.19 (Å)  dsaqaiirelglephpeggyfhqfrdkaggers-----HSTAIYYLLEKGVRSWHVRVT--DAVEVWHYYAgAPIALHLSOD-----GRVOTFTGPAIlegEPPOVIVPANCWOSAESLGFDTLNGCTVSPGFAFSSFVAE--GWSFG  -----efrfiktsldgaiiepevytderyfmetfneai foenglevrfVQDNESMSVRGLRGLFQREkPQGLVVRVIR-GEFDVAVDLrknsdtYGTWGVRS--DENRR--EFFIEGFAHGFLALSDECIINYKCTELYHPEYDSGIWDDDD</p> <p>-----  igidwplemvdlliisekdrnwklrenpvyll</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=10.34 (Å)  dsaqaiirelg-----LEPHPEGIFYHOTFRDKAGGERGHST-----AIYYLLEKGVRSWHVRVT--AVEVWHYYAgAPIALHLS-----ODGRVOTFTGPAIlegEPPOVIVPANCWOSAESLGFDTLNGCTVSPGFAFSSFVAE-----  -----efrfiktsldgaiiepevytderyfmetfneai foenglevrfVQDNESMSVRGLRGLFQREkPQGLVVRVIR-GEFDVAVDLrknsDTYGTWGVRS--DENRR--EFFIEGFAHGFLALSDECIINYKCTELYHPEYDSGIWDDDPdigidwplemvdlliisekdrnwklrenp</p> <p>-----gwsfg  lrenpvyll-----</p> <p><b>BLAST:</b> aliSize=19 (resi) iden=7.97% (11/140) simi=13.77% (19/140)  dsaqaiirelg-----OAI RLEGL EPHpeggyfhqfrdkaggersHSTAIYYLLEK-----  -----efrfiktsldgaiiepevytderyfmetfneai foenglevrfVQDNESMSVRGLRGLFQREkPQGLVVRVIR-GEFDVAVDLrknsdtYGTWGVRS--DENRR--EFFIEGFAHGFLALSDECIINYKCTELYHPEYDSGIWDDDPdigidwplemvdlliisekdrnwklrenp</p> <p>---gvrshwhrvtdavevwhyyagapialhlsqdgrevqftlgpailegerpqvivpancwqsaeslgdftlvgtvspgfafssfvaepgwsfg  vyl</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=2.22 (Å)  dsaqaiirelg-----ELGLEPHPEGIFYHOTFRDKAGGERGHST-----AIYYLLEKGVRSWHVRVT--DAVEVWHYYAgAPIALHLSOD-----GRVOTFTGPAIlegEPPOVIVPANCWOSAESLGFDTLNGCTVSPGFAFSSFVAE--GWSFG-----  -----efrfiktsldgaiiepevytderyfmetfneai foenglevrfVQDNESMSVRGLRGLFQREkPQGLVVRVIR-GEFDVAVDLrknsdtYGTWGVRS--DENRR--EFFIEGFAHGFLALSDECIINYKCTELYHPEYDSGIWDDDPdigidwplemvdlliisekdrnwklrenpvyll</p> <p>-----  sekdrnwklrenpvyll</p>
566	<p><b>1znpA</b> (140)</p> <hr/> <p><b>1pm7A</b> (199)</p>	N	8.57	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.28 (Å)  dsaqaiirelglephpeggyfhqfrdkaggers-----GHSTAIYYLLEKGVRSWHVRVT--DAVEVWHYYAgAPIALHLSOD-----GRVOTFTGPAIlegEPPOVIVPANCWOSAESLGFDTLNGCTVSPGFAFSSFVAE--AEPGWS-  -----mkareldvpgaweitptihvdsrglffewltdhgfracfaghsLDVRQVNCSSVSSAGVLRGLFAQlppSOAKYVTCVS-GSVFDVVVDIregspTFGRWDSVLDQD--RRTIYSEGLAHGFLAQNSTMYLCSAEYNPQREHTICATDPT</p> <p>PG-----  LAvdwlvdgaapslsdrdaaapsfedvrasgllprweqtqrfigem</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=14.84 (Å)  dsaqaiirelg-----LEPHPEGIFYHOTFRDKA-----KAGGERGHSTAIYYLLEKGVRSWHVRVT--DAVEVWHYYAgAPIALHLS-----ODGRVOTFTGPAILE-----EPPOVIVPANCWOSAESLGFDTLNGCTV-----  -----mkareldvpgaweitptihvdsrglffewltdhgfracfaghsLDVRQVNCSSVSSAGVLRGLFAQlppSOAKYVTCVS-GSVFDVVVDIregspTFGRWDSVLDQD--RRTIYSEGLAHGFLAQNSTMYLCSAEYNPQREHTICatdptlavdwlvdgaapslsdrdaaapsfed</p> <p>-----vspgfafssfvaepgwsfg  vrasgllprweqtqrfigem-----</p> <p><b>BLAST:</b> aliSize=23 (resi) iden=10.14% (14/140) simi=16.67% (23/140)  dsaqaiirelglephpeggyfhqfrdkaggersghs-----HSTAIYYLLEKGVRSWHVRVT--DAVEVWHYYAgAPIALHLSOD-----GRVOTFTGPAILE-----EPPOVIVPANCWOSAESLGFDTLNGCTV-----  -----mkareldvpgaweitptihvdsrglffewltdhgfracfaghsLDVRQVNCSSVSSAGVLRGLFAQlppSOAKYVTCVS-GSVFDVVVDIregspTFGRWDSVLDQD--RRTIYSEGLAHGFLAQNSTMYLCSAEYNPQREHTICatdptlavdwlvdgaapslsdrdaaapsfed</p> <p>-----erpqvivanpwqsaeslgdftlvgtvspgfafssfvaepgwsfg  ticatdptlavdwlvdgaapslsdrdaaapsfedvrasgllprweqtqrfigem-----</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=2.23 (Å)  dsaqaiirelg-----LEPHPEGIFYHOTFRDKA-----gERG-----HSTAIYYLLEKGVRSWHVRVT--DAVEVWHYYAgAPIALHLSOD-----GRVOTFTGPAIlegEPPOVIVPANCWOSAESLGFDTLNGCTVSPGFAFSSFVAE--AEPGWSFG-----  -----mkareldvpgaweitptihvdsrglffewltdhgfracfaghsLDVRQVNCSSVSSAGVLRGLFAQlppSOAKYVTCVS-GSVFDVVVDIregspTFGRWDSVLDQD--RRTIYSEGLAHGFLAQNSTMYLCSAEYNPQREHTICATDPTlavdwlvdgaapsls</p> <p>-----  drdaaapsfedvrasgllprweqtqrfigem</p>

567	<p>1znpA (140)</p> <p>2ixcA (198)</p>	N	8.57	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.25 (Å)  dsaqaiirelglephpeggyfhtfrdkagger-----GHSTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEPGWS-  -----mkareldvpgaweiipthvdsrglffewltdhgfrafaghsLDVRQVNCSSAGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---RRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPT</p> <p>PG-----  LAvdwpdvdaapslsdrdaaapsfedvrasgllprweqtqrfige</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=10.31 (Å)  ds-----AOALIRELGLPEHPeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----ODGREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----mkareldvpgaweiipthvdsrglffewltdhgfrafaghsLD-----VRQ-----VNCSSAGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvAA</p> <p>-----g  slsdrdaaapsfedvrasgllprweqtqrfige-</p> <p><b>BLAST:</b> aliSize=23 (resi) iden=10.14% (14/140) simi=16.67% (23/140)  dsaqaiirelglephpeggyfhtfrdkaggerghs-----TAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSODGREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----mkareldvpgaweiipthvdsrglffewltdhgfrafaghsLD-----H-SLDVROVNCSSAGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvAA</p> <p>-----erpqvivpancwsaeslgdftlvgtvsgpfafssfvaepgwsppg  ticatdptlavdwpdvdaapslsdrdaaapsfedvrasgllprweqtqrfige-----</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=2.21 (Å)  dmsaqa-----LR-----LIR-----elglephpeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEPGWS-  -----mkareldvpgaweiipthvdsrglffewltdhgfrafaghsLD-----VRQ-----VNCSSAGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvdaapsls</p> <p>-----g  drdaaapsfedvrasgllprweqtqrfige</p>
568	<p>1znpA (140)</p> <p>2ixhA (184)</p>	N	6.43	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.43 (Å)  dsaqaiirelglephpeggyfhtfrdkagger-----GHSTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEPGWS-  -----smamkatrlaipdvilfeprvfgddrgffesynqrafecaghpvsfvQDNHSRSARGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvdaapsls</p> <p>--P-----G-----  pelkidwplqdapllsekdrqgkafadacfp</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=16.14 (Å)  ds-----AOALIRELGLPEHPeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----smamkatrlaipdvilfeprvfgddrgffesynqrafecaghpvsfvQDNHSRSARGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvdaapsls</p> <p>-----gwsppg  dapllsekdrqgkafadacfp-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=6.52% (9/140) simi=10.14% (14/140)  dsaqaiirelglephpeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----smamkatrlaipdvilfeprvfgddrgffesynqrafecaghpvsfvQDNHSRSARGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvdaapsls</p> <p>-----staiyyllekgvrshwhrvtdavevwhyagapialhlsqdgrevqftlgpaillegerpqiivpancwsaeslgdftlvgtvsgpfafssfvaepgwsppg  dadacfp-----</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=2.24 (Å)  dmsaqa-----LR-----LIR-----elglephpeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----smamkatrlaipdvilfeprvfgddrgffesynqrafecaghpvsfvQDNHSRSARGVLRGLIFAQlppSQAKYVTCVSGSVFDVVVDIregspTFGRWDSVLDQD---DRRTIYSEGLAHGFLAQNSTMYLCAEYNPQREHTICATDPTlavdwpdvdaapsls</p> <p>-----g  sekdrqgkafadacfp</p>
569	<p>1znpA (140)</p> <p>2paeb (134)</p>	N	7.46	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=3.00 (Å)  dsaqaiirelglephpeggyfhtfrdkagger-----GHSTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEPGWS-  -----enkvinfkkiidsrgslvAieenknipfsIKRVYIIFdTKGEEPRGFNAHKKLEQLVCLNG-SCRVIDDGNITIEITLDSP-----AVGLYGPVAVHEMHDFSSDCVMVLAASDYDETDYIRQYDNFK-kyiakinl</p> <p><b>SARST:</b> aliSize=100 (resi) RMSD=8.88 (Å)  dsaqaiirelglephpeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----enkvinfkkiidsrgslvAieenknipfsIKRVYIIFdTKGEEPRGFNAHKKLEQLVCLNG-SCRVIDDGNITIEITLDSP-----AVGLYGPVAVHEMHDFSSDCVMVLAASDYDETDYIRQYDNFK-kyiakinl</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=5.22% (7/134) simi=6.72% (9/134)  dsaqaiirelglephpeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----enkvinfkkiidsrgslvAieenknipfsIKRVYIIFdTKGEEPRGFNAHKKLEQLVCLNG-SCRVIDDGNITIEITLDSP-----AVGLYGPVAVHEMHDFSSDCVMVLAASDYDETDYIRQYDNFK-kyiakinl</p> <p>-----legerpqiivpancwsaeslgdftlvgtvsgpfafssfvaepgwsppg  tdyirqydnfkkyiakinl-----</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=2.23 (Å)  dmsaqa-----LR-----LIR-----elglephpeggyfhtfrdkaggerghsTAIYYLLEKGVRSWHRVTD--DAVEVWHYYAgAPIALHLSOD-----GREVOTFTLGPAILegEPpVIVPANCWOSAESLGDFTLVGCTVSPGFVAFSSFVAEP-----WS-  -----enkvinfkkiidsrgslvAieenknipfsIKRVYIIFdTKGEEPRGFNAHKKLEQLVCLNG-SCRVIDDGNITIEITLDSP-----AVGLYGPVAVHEMHDFSSDCVMVLAASDYDETDYIRQYDNFK-kyiakinl</p>

570	<p><b>1zvnA (99)</b></p> <hr/> <p><b>2h7wA (108)</b></p>	N	7.07	<p><b>TM-align:</b> aliSize=77 (resi) RMSD=3.65 (Å)        sgw----VWNOFFVLEEyTtdPlyVGKlHsdmDrgdGSI-KYILSGEG--AGI-----VFTIDDT-----TGDTHAIQRLDReerSOYTLRAQALdrtr-GRpme----PESEFI IKIQD-        ---hkvtkAHNGATLTVA--VGE--EVEIQLP--N---PTTgFAWYFEG-gtKESpnesmfTVENKYFppdskllgaggTEHFHVTVKAAAG---THAVNLT YMR----pWT---gpshDSERFIVYLKAn</p> <p><b>SARST:</b> aliSize=60 (resi) RMSD=9.00 (Å)        sgwvffvleey-----TGDPLLYVGLHSDmDRgdgsikYILSGEGAgivftiddttgdihAIQRLDREerSOYTLRAQALDRRtGRPMEPESFI IKI-----qd        -----hkvtkahngatltvAVGELVEIQLPNSPT-T-----FAWYFEG-----TKESPNES--MFTVENKYFPPDS-KLLGAGGTTEHFHVTVkaagthavnltymrpwtgpshdserfi vylkan--</p> <p><b>BLAST:</b> aliSize=11 (resi) iden=7.07% (7/99) simi=11.11% (11/99)        sgwvffvleeytgdtdplyvgklhdsmdrg-----DGSIKYILSGEGVFTIDDT-----dihaiqrldreersqytlraqaldrtrgrmpesefiikiqd        -----hkvtkahngatltvAVGELVEIQLPNSPT-Tfawyfeegtkespnesmf tvenkyfppdskllgaggtehfhvtvkaagthavnltymrpwtgpshdserfi vylkan-----</p> <p><b>Proposed:</b> aliSize=79 (resi) RMSD=3.18 (Å)        SGWV---WNOFFVLEEyTtdPlyVGKlHsdmDRgdGS--IKYILS-----geGAGI--VFTIDDT-----TGDTHAIQRLDReeRsQYTLRAQALD-rrtGR--mPESEFI IKIQD        HKVTkAHNGATLTVA--VGE--EVEIQLP--SN--PTTgFAWYFEGgtke--SPNEsmFTVENKYfppdskllgaggTEHFHVTVKAA---G-THAVNLT YMRp---WTgsh-DSERFIVYLKAN</p>
571	<p><b>2b3jA (151)</b></p> <hr/> <p><b>1wkqA (158)</b></p>	C	29.80	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=2.22 (Å)        m--TNDIYMTLATEEKKAAQ-LGEVIGAIITKIDEVIARAHLREILOOPTAHAEHIATERNAKVLGSRWEGTITLYVTLEPCVMCACTIVMSRIPRIVYGADDP--K----GGCsgSLMn-Llaasnfhrai vdkvkeacstllttffknlran-----        -hamNHETLKRNVTLCEGVNAGIGGPFGAVIVKGAIAEGONNVTISNDPTAHAEVTVIRKACKVLGAYQDDIILYTSCEPCPCLGAIYWARPKAFYAAEHtdaaeagfddsfiykeidkpaertipfyqvtlteh spfqawrn</p> <p>fankkey</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=0.97 (Å)        mtndiyf-----MTLATEEKKAAQ-LGEVIGAIITKIDEVIARAHLREILOOPTAHAEHIATERNAKVLGSRWEGTITLYVTLEPCVMCACTIVMSRIPRIVYGADDP-----kkgcsgslmnlqqsnfhraivdkg        ---hamNHETLKRNVTLCEGVNAGIGGPFGAVIVKGAIAEGONNVTISNDPTAHAEVTVIRKACKVLGAYQDDIILYTSCEPCPCLGAIYWARPKAFYAAEHtdaaeagfddsfiykeidkpaertipfyqvtlteh spfqawrnfankkey-----</p> <p>v keacstllttffknlran</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=29.14% (44/151) simi=37.09% (56/151)        mtndiyf-----MTLATEEKKAAQ-LGEVIGAIITKIDEVIARAHLREILOOPTAHAEHIATERNAKVLGSRWEGTITLYVTLEPCVMCACTIVMSRIPRIVYGADDP-----kkgcsgslmnlqqsnfhr        ---hamNHETLKRNVTLCEGVNAGIGGPFGAVIVKGAIAEGONNVTISNDPTAHAEVTVIRKACKVLGAYQDDIILYTSCEPCPCLGAIYWARPKAFYAAEHtdaaeagfddsfiykeidkpaertipfyqvtlteh spfqawrnfankkey-----</p> <p>aivdkgv keacstllttffknlran</p> <p><b>Proposed:</b> aliSize=136 (resi) RMSD=1.84 (Å)        m--TNDIYMTLATEEKKAAQ-LGEVIGAIITKIDEVIARAHLREILOOPTAHAEHIATERNAKVLGSRWEGTITLYVTLEPCVMCACTIVMSRIPRIVYGADDP-----kkgcsgslm--NlOOSnFnHRAIVDKGVLKEACSTLLTTFKnlR--an        -hamNHETLKRNVTLCEGVNAGIGGPFGAVIVKGAIAEGONNVTISNDPTAHAEVTVIRKACKVLGAYQDDIILYTSCEPCPCLGAIYWARPKAFYAAEHtdaaeagfddsfiyke-----IdkP-AEER-T-IPFYQVTLTEHLSPFQAWRN--AKKkey--</p>
572	<p><b>2bswA (145)</b></p> <hr/> <p><b>1vkcA (149)</b></p>	C	13.79	<p><b>TM-align:</b> aliSize=129 (resi) RMSD=2.37 (Å)        -IEVKPIN--AEDTYELRHRILRP-----N--QPIEAC--FESDLLRGAFHLGGYYGG-KLISIASFHQAEHSEIQGQYQYQLRG-ATLEGYREQAGSSIKHAEELRKRGDLLWCNART-S--SGYKKLGFSEQGEVFDTP-pvgphilykrit-        eYTIVDGEeyIEIKKLDREISYSfvrfpisYeeYEErHeelFESLLSQGEHKFFVALNERSLGHVWICITLDTV-DYVIAIYIDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLVEIdnPAVKWEEERYKARALIMEKP-----i</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=4.23 (Å)        ie-VKPINAEEDTYELRHRIL-----RNQPIEA-----CFESDLLRGAFHLGGYY-GGKLISIASFHQAEHSE--LQgqKQQLRGATLEGYREQAGSSIKHAEELRKRGDLLWCNART--S--SGYKKLGFSEQGEVFDTP-pvgphilykrit        --eYTIVDGEeyIEIKKLDREISYSfvrfpisYeeYEErHeelFESLLSQGEHKFFVALNERSLGHVWICITLDTVdyVK--IAIYIDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLVEIdnPAVKWEEERYKARALIMEKPi-----</p> <p><b>BLAST:</b> aliSize=58 (resi) iden=21.83% (31/145) simi=40.85% (58/145)        ievk-----PINAEDTYELRHRILRP-----RNQPIEA-----CFESDLLRGAFHLGGYY-GGKLISIASFHQAEHSELQgqKQQLRGATLEGYREQAGSSIKHAEELRKRGD--LWCNARTS--SGYKKLGFSEQGEVFDTP-pvgphilykrit        ----eytivdgeeieeikkl dreisysfvrfpisYeeYEErHeelFESLLSQGEHKFFVALNERSLGHVWICITLDTVdyVKI--IAIYIDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLVEIdnPAVKWEEERYKARALIMEKPi-----</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=1.95 (Å)        -IEVKPIN--AEDTYELRHRILRP-----N--QPIEAC--MFESDLLRGAFHLGGYYGG-KLISIASFHQAEHSEIQGQYQYQLRGMATLEGYREQAGSSIKHAEELRKRGDLLWCNART-S--SGYKKLGFSEQGEVfdtppvgphilykrit-        eYTIVDGEeyIEIKKLDREISYSfvrfpisYeeYEErHeelFESLLSQGEHKFFVALNERSLGHVWICITLDTV-DYVIAIYIDIEVVKWARGLIGSALLRKAEEWAKERGAKKIVLVEIdnPAVKWEEERYKARALIMEKPi-----</p>

573	2bswA (145)	C	14.48	<p><b>TM-align:</b> aliSize=128 (resi) RMSD=2.60 (Å)            --EVKPIA--ED-TYELRHRIRRNQIEAC--FE--SD-LLRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRG-ATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVFDTPpvvghilykrit----</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=4.28 (Å)            i---EVKPIAEDTYELRHRIRRNQIEAC-----TEACFSDLLRGAFHLGGYYGKLSIASFH----QAEHSELQgkQOYQLRGATLEGYREQKAGSSLTKHAEELRKRKADLLWCNAR---SASGYKKLGFSQGEVFDT----ppvghilykrit</p> <p><b>BLAST:</b> aliSize=44 (resi) iden=19.01% (27/145) simi=30.99% (44/145)            ievkpinaedtye-----LRHRIRRNQIEACF--ESDLLRGAFHLGGYYG---KLSIASFHQAEHSELQ---QKQYQIRGA-TLEGYREQKAGSSLTKHAEELRKRKADLLWCNA---R--SASGYKKLGFSQGEV-----fdtpvghilykrit</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.05 (Å)            --EVKPIA--aED-TYELRHRIRRNQIEAC-MF--esDL--LRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRGMATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVfdtpvghilykrit</p>
	2vbqA (147)			<p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.05 (Å)            --EVKPIA--aED-TYELRHRIRRNQIEAC-MF--esDL--LRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRGMATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVfdtpvghilykrit</p>
574	2bswA (145)	C	15.28	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=2.53 (Å)            iEVKPIA--ED-TYELRHRIRRNQIEAC--FE--SD-LLRGAFHLGGYYGKLSIASFHQAEHSE-LOGQKQYQIRG-ATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVFDTPpvvghilykrit----</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=3.94 (Å)            ie-VKPIAEDTYELRHRIRRNQIEAC-----TEACFSDLLRGAFHLGGYYGKLSIASFH----QAEHSELQgkQOYQLRGATLEGYREQKAGSSLTKHAEELRKRKADLLWCNAR---SASGYKKLGFSQGEVFDT----ppvghilykrit</p> <p><b>BLAST:</b> aliSize=44 (resi) iden=19.01% (27/144) simi=30.99% (44/144)            ievkpinaedtye-----LRHRIRRNQIEACF--ESDLLRGAFHLGGYYG---KLSIASFHQAEHSELQ---QKQYQIRGA-TLEGYREQKAGSSLTKHAEELRKRKADLLWCNA---R--SASGYKKLGFSQGEV-----fdtpvghilykrit</p> <p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.15 (Å)            iEVKPIA--ED-TYELRHRIRRNQIEAC-MF--esDL--LRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRGMATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVfdtpvghilykrit</p>
	2vbqB (144)			<p><b>Proposed:</b> aliSize=132 (resi) RMSD=2.15 (Å)            iEVKPIA--ED-TYELRHRIRRNQIEAC-MF--esDL--LRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRGMATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVfdtpvghilykrit</p>
575	2c49A (299)	M	17.39	<p><b>TM-align:</b> aliSize=265 (resi) RMSD=3.61 (Å)            g-KM-E-KITCVHTAEDYELRHRIRRNQIEAC--FE--SD-LLRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRG-ATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVFDTPpvvghilykrit----</p> <p><b>SARST:</b> aliSize=213 (resi) RMSD=5.30 (Å)            gkmekitevghtalgyiifvekpepntsiqipsa-----svrenilfgmgnp11disavvdkdfldkyslkpndqilaedkhkeIfde</p> <p><b>BLAST:</b> aliSize=113 (resi) iden=22.07% (66/299) simi=37.79% (113/299)            gkmekitevghtalgyiifvekpepntsiqipsa-----svrenilfgmgnp11disavvdkdfldkyslkpndqilaedkhkeIfde</p> <p><b>Proposed:</b> aliSize=255 (resi) RMSD=2.31 (Å)            gkm-E-KITCVHTAEDYELRHRIRRNQIEAC--FE--SD-LLRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRG-ATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVFDTPpvvghilykrit----</p>
	2i6bB (326)			<p><b>Proposed:</b> aliSize=255 (resi) RMSD=2.31 (Å)            gkm-E-KITCVHTAEDYELRHRIRRNQIEAC--FE--SD-LLRGAFHLGGYYGKLSIASFHQAEHS-E-LOGQKQYQIRG-ATLEGYREQKAGSSLTKHAEELRKRKADLLWCNART-S--ASGYKKLGFSQGEVFDTPpvvghilykrit----</p>



576	<p>2cnmA (151)</p> <p>1s3zB (145)</p>	C	<p>14.48</p> <p><b>TM-align:</b> aliSize=127 (resi) RMSD=2.16 (Å)  mNTISLSTDPAAWQTEORAHAFPWSEKTF--G--NQ-GE-RYLNKLTADDRMAAFAITOVVL-----DEATFNIAVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>RRNYyptagghc</b>daiimalpismklh----</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=3.02 (Å)  mn-TISLSTDPAAWQTEORAHAFPWSEKTF--G--NQ-GE-RYLNKLTADDRMAAFAITOVVL-----DEA---TFNIAVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>RR----</b>nyyptagghedaiimalpismklh</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=16.55% (24/145) simi=29.66% (43/145)  mntisilsttdlpaawqieqrahaipwsektffgn-----GGERYLNKLTADDRMAAFAITOVVL-----EATL---NTAIVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>RRNY--</b>ptagghedaiimalpismklh</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=1.88 (Å)  mNTISLSTDPAAWQTEORAHAFPWSEKTF--G--NQ-GE-RYLNKLTADDRMAAFAITOVVL-----DEATFNIAVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>Rrnyyptagghc</b>DAIIMAL-pismklh</p>
577	<p>2cnmA (151)</p> <p>2vbqA (147)</p>	C	<p>13.61</p> <p><b>TM-align:</b> aliSize=128 (resi) RMSD=2.31 (Å)  -MNTISLSTDPAAWQTEORAHAFPWSEKTF--G--NQ-GE-RYLNKLTADDRMAAFAITOVVL-----DEATFNIAVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>RRNYyptagghc</b>daiimalpismklh----</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=3.26 (Å)  m--NTISLSTDPAAWQTEORAHAF--WS-----EKTFFGngGERYLNKLTADDRMAAFAITOVV-----LDEA---TFNIAVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>RR----</b>nyyptagghedaiimalpismklh</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=16.33% (24/147) simi=29.25% (43/147)  mntisilsttdlpaawqieqrahaipwsektffgn-----GGERYLNKLTADDRMAAFAITOVVL-----EATL---NTAIVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>RRNY--</b>ptagghedaiimalpismklh</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.00 (Å)  -MNTISLSTDPAAWQTEORAHAFPWSEKTF--G--NQ-GE-RYLNKLTADDRMAAFAITOVVL-----DEATFNIAVDPDFORRCLGRMLEHLIDELETRVVTLWLEVRASNAAAIALYESLGFNEATI<b>Rrnyyptagghc</b>DAIIMAL-pismklh</p>
578	<p>2cswA (145)</p> <p>1j4kA (158)</p>	C	<p>13.79</p> <p><b>TM-align:</b> aliSize=109 (resi) RMSD=2.55 (Å)  gssgsgvtgdrAGSWCRRVGM--SAGWLLLEDGCEVTVGRFGVTVOLVskicPLMISRNHCVLKONPE-----GOWTMDNkSLNGVWNRARLEPLRVYSIHOGYIOLGVPLENKEnAEYEYE<b>TEEDwetivnc</b>lspksgpssg-----</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=9.39 (Å)  gssgsgvtgdr--AGGRSWCLRR-VGMSAGWLLLEDGCEVTVGRFGVTVOLVskicPLM-----ISRN--HCVLKONPEGOWT--IMDNkSLNGVWNRARLEPLRVYSIHOGYIOLGVPLENKEnAEYEYE<b>TEEDwetivnc</b>lspksgpssg-----</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=15.86% (23/145) simi=34.48% (50/145)  gssgsgvtgdraggrswclrrvmsagwll-----LLEDGCEVTVGRFGVTVOLVskicPLMISRNHCVLKONPE-----GOWTMDNkSLNGVWNRARLEPLRVYSIHOGYIOLGVPLENKEnAEYEYE<b>TEEDwetivnc</b>lspksgpssg-----</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=2.22 (Å)  gssgsgvtgdrAGSWCRRVGM--SAGWLLLEDGCEVTVGRFGVTVOLVskicPLMISRNHCVLKONPE-----GOWTMDNkSLNGVWNRARLEPLRVYSIHOGYIOLGVPLENKEnAEYEYE<b>TEEDwetivnc</b>lspksgpssg-----</p>

579	<p>2cu2A (335)</p> <p>1vpaA (221)</p>	M	18.55	<p><b>TM-align:</b> aliSize=207 (resi) RMSD=3.08 (Å)  - MKTYALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPTLLAVRRDOEAARPYADG--I-RLLLEpLGrDTAGALLGVAEALGGAERLVLPAADHYVgdDeaYREALATMEEAEGFVVALGRPTRPETeygyirlgpreyawyrgegfvekPSY---AEaLEYiRK  hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDAL-----VRVendrIE-YIP-RK</p> <p>YVWNGGVFAFAPATMAELFRrhlpShhealerllagasleevyaglpkISIDY-GVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvv-Lgegrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea---  VYRILTPOAFSYEILKKAHE---N-G-----G-EWAdtEPVQLGVKIALVE-DPLCFKTFKEDLARI-----aR-----ew</p> <p><b>SARST:</b> aliSize=166 (resi) RMSD=11.05 (Å)  m--KTYALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPE--RTLLAVRRDOEAARPYAD--GIRLLLEpLRDTAGALLGVAEALGGAERLVLPAADHYVGDDEAYREALATMLEAEGFVVALGRPTRPETEYGYIRL----GPREGAWRGEGFVEKPSYAEALEYI  --hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDAL-----ALVRVendrIEYIPRKGVVILTPOAFSYEILKKAH</p> <p>RKYY-----wnggvafapatmaelfrhrhlpshhealerllagasleevyaglpkisiidygvmekaervrvlgrfpwddvgnwralervfsqphenvvlggrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdware  ENGEwaddtepvqklgvkialvegdpfcfkvtfkedelariiarew</p> <p>vrevvkrlea  -----</p> <p><b>BLAST:</b> aliSize=104 (resi) iden=26.70% (59/221) simi=47.06% (104/221)  mky-----ALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPTLLAVRRDOEAARPYADGTRLLLEpLRDTAGALLGVAEALGGAERLVLPAADHYVGDDEAYREALATMLEAEGFVVALGRPTRPETEYGYIRLGPREGAWRGEGFVEKPSYAEALEYIRK  ----hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDAL-----ILTPQ-AFSYEILKKA</p> <p>GYVwNGGVFAFapatmaelfrhrhlpSHHEALERLAGASLEevyaglpkISIDYGVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvvlggrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea  AHE--NGGEWA-----DDT-EPVQKLGVKIALVE-DLFCFKVTFKEDLARI-----aR-----ew</p> <p><b>Proposed:</b> aliSize=205 (resi) RMSD=2.39 (Å)  - MKTYALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPE--RTLLAVRRDOEAARPYADG--I-RLLLEpLGrDTAGALLGVAEALGGAERLVLPAADHYVgdDeaYREALATMEEAEGFVVALGRPTRPETEYGYIRLGPREGAWRGEGFVEKPSYAEALEYIRK  hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDAL-----ALVRVEND-----IYIPR-----KQVY</p> <p>WNGGVFAFAPATMAELFRrhlpShhealerllagasleevyaglpkISIDY-GVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvvlggrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea  RILTPOAFSYEILKKAHE---NG-----G-EWAdtEPVQLGVKIALVE-DPLCFKTFKEDLARIiarew-----</p>
580	<p>2cu2A (335)</p> <p>1vpaB (220)</p>	M	16.82	<p><b>TM-align:</b> aliSize=207 (resi) RMSD=3.09 (Å)  - MKTYALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPTLLAVRRDOEAARPYADG--I-RLLLEpLGrDTAGALLGVAEALGGAERLVLPAADHYVgdDeaYREALATMEEAEGFVVALGRPTRPETeygyirlgpreyawyrgegfvekPS---YAEAIEYiRK  hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDALV-----RVendrIEYI-PR--KQ</p> <p>YVWNGGVFAFAPATMAELFRrhlpShhealerllagasleevyaglpkISIDY-GVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvv-Lgegrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea--  VYRILTPOAFSYEILKKAHE---NG-----G-EWAdtEPVQLGVKIALVE-DPLCFKTFKEDLARI-----aR-----ew</p> <p><b>SARST:</b> aliSize=176 (resi) RMSD=9.63 (Å)  mk-TYALVMAG--GRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPE--RTLLAVRRDOEAARPYADG--ADGIRLLEpLRDTAGAVLlgVAEALGGAERLVLPAADHYVGDDEAYREALATMLEAEGFVVALGRPTRPETEYGYIRLGPREGAWRGEGFVEKPSYAEALEYIRK  --hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDALV-----DAVRVENDR-----IYIP-----RK</p> <p>YVWNGGVFAFAPATMAELFRrhlpSHHEALERLAGASLEevyaglpkISIDYGVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvvlggrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea  VYRILTPOAFSYEILKKAHENggewadd-----TEPVQKLGVKIALVE-DLFCFKVTFKEDLARIiarew-----</p> <p><b>BLAST:</b> aliSize=104 (resi) iden=26.82% (59/220) simi=47.27% (104/220)  mky-----ALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPTLLAVRRDOEAARPYADGTRLLLEpLRDTAGAVLlgVAEALGGAERLVLPAADHYVGDDEAYREALATMLEAEGFVVALGRPTRPETEYGYIRLGPREGAWRGEGFVEKPSYAEALEYIRK  ----hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDALV-----ILTPQ-AFSYEILKKA</p> <p>GYVwNGGVFAFapatmaelfrhrhlpSHHEALERLAGASLEevyaglpkISIDYGVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvvlggrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea  AHE--NGGEWA-----DDT-EPVQKLGVKIALVE-DLFCFKVTFKEDLARI-----aR-----ew</p> <p><b>Proposed:</b> aliSize=204 (resi) RMSD=2.44 (Å)  - MKTYALVMAGGRGERLWp1SRedRKPPEPLfECKTLLATLRLAPLVPPE--RTLLAVRRDOEAARPYADG--I-RLLLEpLRDTAGALLGVAEALGGAERLVLPAADHYVGDDEAYREALATMLEAEGFVVALGRPTRPETEYGYIRLGPREGAWRGEGFVEKPSYAEALEYIRK  hHMNVILLAAKGERMS--EN--VPKQLEI-EGRMFFYPSTFLKSEAIDGVVIVTRREWFVEKRVFhekVIGIVEG-GD-TRSOSRSALFELEFSPSYVLDHDSARPF--L--RKKHVSEVRRRTGAATIAKNSDALV-----ALVRVEND-----DAI-EYIP-----RKQVY</p> <p>WNGGVFAFAPATMAELFRrhlpShhealerllagasleevyaglpkISIDY-GVMEAE-RVRVLLRFPWDDGNWRAERVFSQDphenvvlggrhvaldtfgcvvyadrgvvatlgvsglvvakvgdevlvvpkdwarevrevvkrlea  RILTPOAFSYEILKKAHE---N-G-----G-EWAdtEPVQLGVKIALVE-DPLCFKTFKEDLARIiarew-----</p>
581	<p>2e3dA (286)</p> <p>liniA (225)</p>	M	15.11	<p><b>TM-align:</b> aliSize=208 (resi) RMSD=2.74 (Å)  NTKVKKAVIVAGLITRPLPatkaIKEMPLVDKPLIOYVNECIAGITETLVTHSSKNSIENH-FDTsfeleamlerqlldevqsiCpvhVTMOQRQIAKGLGHAVLCAHPVVD-EPVAIILPDVILDeyesdlsqNDLAEMIIRRFDEIGHSOIMVEPVADVTAygVVDCKGVELPAGESV  THLDVCAVFAAGFRNQT--B-CPQYISIGNOTILEHSIHALLHPRVKRVIAISPGRSRAQLPLAN-----H--POITV-DG--D-ERADSLAGLKAAGdaQWVLDHDAARPLCHL---Q--DRLALLALSETSRGTGLAAPPVrdTMKR-----</p> <p>pmvgvvek-----PKADVAPSNIIVGRYVLSA-DIWPLAK--TPPEIQ-L-TDAIDMLIEKETVEAYHMKGKSHDCGNKLGYSQFVEYgiRhntlgtefkawleem  -----aepgknaiaHTVDRNGLWHALTPOFPprelhdCLTRANEgATITDeASALEYCGFHPQLVEGRADNIKVTRPEDLALAEFYL--T-----</p> <p><b>SARST:</b> aliSize=212 (resi) RMSD=9.00 (Å)  nt--KVKKAVIVAGLITRPLPatkaIKEMPLVDKPLIOYVNECIAGITETLVTHSSKNSIENH-FDTsfeleamlerqlldevqsiCpvhVTMOQRQIAKGLGHAVLCAHPVVD-EPVAIILPDVILDeyesdlsqNDLAEMIIRRFDEIGHSOIMVEPVADVTAygVVDCKGVELPAGESV  --thLDVCAVFAAGFRNQT--B-CPQYISIGNOTILEHSIHALLHPRVKRVIAISPGRSRAQLPLAN-----H--POITV-DG--D-ERADSLAGLKAAGdaQWVLDHDAARPLCHL---Q--DRLALLALSETSRGTGLAAPPVrdTMKR-----EPGN</p> <p>PMVGvvekadvAPSNIIVGRYVLSA-DIWPLAK--TPPEIQ-L-TDAIDMLIEKETVEAYHMKGKSHDCGNKLGYSQFVEYgiRhntlgtefkawleem  AHTV-----DRNGLWHALTPOFPprelhdCLTRANEgATITDeASALEYCGFHPQLVEGRADNIKVTRPEDLALAEFYL--T-----</p> <p><b>BLAST:</b> aliSize=70 (resi) iden=18.67% (42/225) simi=31.11% (70/225)  ntkvvk-----ALVAVAGLITRPLPatkaIKEMPLVDKPLIOYVNECIAGITETLVTHSSKNSIENH-FDTsfeleamlerqlldevqsiCpvhVTMOQRQIAKGLGHAVLCAHPVVD-EPVAIILPDVILDeyesdlsqNDLAEMIIRRFDEIGHSOIMVEPVADVTAygVVDCKGVELPAGESV  ----thLDVCAVFAAGFRNQT--B-CPQYISIGNOTILEHSIHALLHPRVKRVIAISPGRSRAQLPLAN-----H--POITV-DG--D-ERADSLAGLKAAGdaQWVLDHDAARPLCHL---Q--DRLALLALSETSRGTGLAAPPVrdTMKR-----aepgknaiaHTV</p> <p>-----vtaygvvdckgvelapagesvpmvgvvekadvapsniivgrylvlsadiwplaktpeiqltdaidmlieketveayhmkgkshdcgnklygymqafveygirhntlgtefkawleem  rnglwhaltpqfprelhdcltrainegatiideasaleycghpqlvegradnikvtrpedlalaefytl-----</p> <p>em  --</p> <p><b>Proposed:</b> aliSize=216 (resi) RMSD=2.47 (Å)  NTKVKKAVIVAGLITRPLPatkaIKEMPLVDKPLIOYVNECIAGITETLVTHSSKNSIENH-FDTsfeleamlerqlldevqsiCpvhVTMOQRQIAKGLGHAVLCAHPVVD-EPVAIILPDVILDeyesdlsqNDLAEMIIRRFDEIGHSOIMVEPVADVTAygVVDCKGVELPAGESV  THLDVCAVFAAGFRNQT--B-CPQYISIGNOTILEHSIHALLHPRVKRVIAISPGRSRAQLPLAN-----H--POITV-DG--D-ERADSLAGLKAAGdaQWVLDHDAARPLCHL---Q--DRLALLALSETSRGTGLAAPPVrdTMKR-----A-</p> <p>PMVGvvekadvAPSNIIVGRYVLSA-DIWPLAK--TPPEIQ-L-TDAIDMLIEKETVEAYHMKGKSHDCGNKLGYSQFVEYgiRhntlgtefkawleem  AHTV-----TVDRNGLWHALTPOFPprelhdCLTRANEgATITDeASALEYCGFHPQLVEGRADNIKVTRPEDLALAEFYL--T-----</p>

582	2e3dA (286)	M	14.48	<p><b>TM-align:</b> aliSize=207 (resi) RMSD=2.67 (Å)            NTKVKKVTPVAGLITRMIPATkaIKEMPLVDKPIIOVYVNECTAAG-TETIILVTHSSKN-SIENHFDTsfleamlerqlldevqsiCpPHVTIMQROIIAkGLGHAMLCAPVVG--DE-PAAILPDVILDeysdLSqDNLAEIMI RRFDeTGHsQIMVEPV-ADVTAygvvdckgvelapge            HHMN-VAILLAACKIERNSENV---PKQFETIEGRMFEPLSTFLKSEAIDGVIIVRREWFVVEKRVF-----H--EKVLGIVEG--D-TRSQSRSLEFLekfSPsYLLHDSARPFLL----RK-KHVSEVLRAR-ETGAATLALKNSDALVR-----</p> <p>svpmvgvvek-----PKADvAPSNLAIVGRYVLS-ADIWPLLAkTPpIO-LDAIDMIEKETVEAYHMKGKSHDCGNLGYMOAFVEYGiRHNtlgtfkwleem            -----vendrIEYTP-RKGVYRILTPOAFsyEILKKAHENGg--EWaddTEPVOKI-G-VKIALVEGDPLCFKVTfEDLELARIAR-EWE-----</p> <p><b>SARST:</b> aliSize=209 (resi) RMSD=7.50 (Å)            ntkvk----KIVIPVAGLITRMIPATkaIKEMPLVDKPIIOVYVNECTA-AGTETIILVTHSSKNSTENHFDTSFleamlerqlldevqsiCpPHvtimqVROGLAKGLGHAMLCAPVVG---GDEPAAAILPDVILdeYESDLSQdnLAEMI RRFDeTGHsQIMVEPVADvtaYGVVDCKGVELAP            -----hhmvVAILLAACKIERNSENV---PKQFETIEGRMFEPLSTFLKSEAIDGVIIVRREWFVVEKRVFHEK-----VL-----GIVEGGDTRsQSRSLEFLekfSPSYLLHDSAR----PFLRKKH--VSEVLRAR-ETGAATLALKNSD---ALVRVENDRIEYI</p> <p>GESVPMVGvvekpkadvapsnlaivgrYVLSADWPLLA---KTPPEiqltDAIDMIEKETVEAYHMKGKSHDCGNLGYMOAFVEYGiRHNtlgtfkwleem            PRKGVYRILTPOAFsyEILKKAHENGg--EWaddTEPVOKI-G-VKIALVEGDPLCFKVTfEDLELARIAREWE-----</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=6.79% (15/221) simi=13.57% (30/221)            ntkvkk-----KIVIPVAGLITRMIPATkaIKEMPLVDKPIIOVYVNECTA-AGTETIILVTHSSKNSTENHFDTSFleamlerqlldevqsiCpPHvtimqVROGLAKGLGHAMLCAPVVG---GDEPAAAILPDVILdeYESDLSQdnLAEMI RRFDeTGHsQIMVEPVADvtaYGVVDCKGVELAP            -----hhmvVAILLAACKIERNSENV---PKQFETIEGRMFEPLSTFLKSEAIDGVIIVRREWFVVEKRVFHEK-----VL-----GIVEGGDTRsQSRSLEFLekfSPSYLLHDSAR----PFLRKKH--VSEVLRAR-ETGAATLALKNSD---ALVRVENDRIEYI</p> <p>tepvqklgkialvegdplcfkvtfkdlelariiarewe-----hssknsienhfdtsfeamlerqlldevqsiCpPHvtimqVROGLAKGLGHAMLCAPVVG---GDEPAAAILPDVILdeYESDLSQdnLAEMI RRFDeTGHsQIMVEPVADvtaYGVVDCKGVELAPsvpmvgvvekpkadvapsnlaiv            gryvlsadiwpllaktppeiqltdaidmlieketveayhmkgkshdcgnlgymaqfveygirhntlgtefkawleem</p> <p><b>Proposed:</b> aliSize=212 (resi) RMSD=2.35 (Å)            NTKVKKVTPVAGLITRMIPATkaIKEMPLVDKPIIOVYVNECTAAG-TETIILVTHSSKN-SIENHFDTsfleamlerqlldevqsiCpPHVTIMQROIIAkGLGHAMLCAPVVG--DE-PAAILPDVILDeysdLSqDNLAEIMI RRFDeTGHsQIMVEPVADvtaYGVVDCKGVELAPges            HHMN-VAILLAACKIERNSENV---PKQFETIEGRMFEPLSTFLKSEAIDGVIIVRREWFVVEKRVF-----H--EKVLGIVEG--D-TRSQSRSLEFLekfSPsYLLHDSARPFLL----RK-KHVSEVLRAR-ETGAATLALKNSD---SDALVRVE-N-----</p> <p>VPMVGVVekpkadvapsnlaivgrYVLSADWPLLA---KTPPEiqltDAIDMIEKETVEAYHMKG-KSHDCGNLGYMOAFVEYGiRHNtlgtfkwleem            DRIEYTP-----RKGVYRILTPOAFsyEILKKAHENGg--EWaddTEPVOKI-G-VKIALVEG-DpLFCFKVTfEDLELARIAR-EWE-----</p>
	1vpaA (221)			
583	2f5gA (130)	C	5.38	<p><b>TM-align:</b> aliSize=83 (resi) RMSD=3.00 (Å)            elkstrhtkyCNYHFVWIPKhrRnTIVNEIAEYTKVELKSTAEELCEIiAEVMPDHIHLFVNCPPRYAPsYLANYFKGksArliikfpqlnkgKLWTRSYFV-ATAGNVsSevikkyieeqwrkege-----            -----GHLRLIYLSCAT-D--G-SYPDLRDIMAKSEVNNLRDITG-M-CYGNMFLQTLQEGDROKVS-ETYARILK--D-----PRHH-SAEIvEFKAIEE-----rtfinwsmrlvqlgemdsdtirrlrkyspaatfqrsmtaeqcfrflkelydmsqg</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=12.20 (Å)            elkstrhtk--YLCNHFVWIPKhrRnTIVNEIAEYTKVELKSTAEELCEIiAEVMPDHIHLFVNCPPRYapsylanYFKGSARLILKRFOLNKG-KLWTRSY-----FVAAGNVsSEVIKkyIEE-----qwrkege            -----gHLRLIYLSCATD-----G-SYPDLRDIMAKSEVNNLRDITG-M-CYGNMFLQTLQEGD-----ROVSETYARILDRHHSAAIEVEFKAIERTfinwsmRLVQLGEMSDTIRRLRLKyspaatfqrsmtaeqcfrflkelydmsqg-----</p> <p><b>BLAST:</b> aliSize=23 (resi) iden=10.77% (14/130) simi=17.69% (23/130)            elkstrhtkylcnyhfvwipkhrnrtlvn-----EIAEYTKVELKSTAEELCEIiAEVMPDHIHLFVNCPPRYAPsYLANYFKGKSARLILKRF-----qlnkgklwtrsyfva            -----gHLRLIYLSCATDglsypdlrdimaksevnlnrdigtgmcyngmflqtlqlegrqKVS-ETYARILDRPHH-SAEIvEFKAIEERT--FINWSMRLVQ--LGEMSDTIRRLRLKyspaatfqrsmtaeqcfrflkelydmsqg-----</p> <p>tagnvsssevikkyieeqwrkege            -----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=2.62 (Å)            elkstrhtkyCNYHFVWIPKhrRnTIVNEIAEYTKVELKSTAEELCEIiAEVMPDHIHLFVNCPPRYAPsYLANYFKGksArliikfpqlnkgKLWTRSYFVAT-----agnvsEvIKKYIEEOWKEG-----E-----            -----GHLRLIYLSCAT-D--G-SYPDLRDIMAKSEVNNLRDITG-M-CYGNMFLQTLQEGDROKVS-ETYARILK--D-----PRHHSAAIEVEFKAIERTfinwsmrlvqlg-----E-MSDTIRRLRLKyspaatfqrsmtaeqcfrflkelydmsqg</p>
	1x0pE (141)			
584	2fckA (174)	C	11.24	<p><b>TM-align:</b> aliSize=141 (resi) RMSD=3.54 (Å)            tpdfqivtORLQLRLITAdEAeELVOCIRQS-OTLHOWVDFWsqeAEFOFIQ-ATRLnwVKAeAYGFGVFEROT-----OTLVGVAINEFYHT-FN-A-SGYWIGDR-YORQYCKEATAIILFCFeLELTRLEIVCDPENVPsQALALRCGANREOL----APNRFLVAGEpkagivfslip-            -----kFVIRPATAADCS-DILRLIKELAKYEYMEEQVI---LTkdLLeDGFg--EHP-FVHCLVAVPKehwtpgehSIVGFAMYFTYDPWIGKLIYLEDFFVMSdYRGFIISSEIKNSQVAM--RCRCSSMHFLVAEWEPsINFYKRGASDLSseegWRLF-K-IDK-----</p> <p>yllkmatee</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=6.13 (Å)            tpdfqivtqr-LQLRLITAdEAeELVOCIRQSOTLHOWVDFWsqeAEFOFIQ-ATRLnwVKAeAYGFGVFEROTLVGVAIN-----EFYHTFNASL-----GYWIGDRYORQYCKEATAIILFCFeLELTRLEIVCDPENVPsQALALRCGANRE-----            -----kFVIRPATAADCS-DILRLIKELAKYEYME-EQVIItEKDLLE-----DGfgehpfyHCLVAEVPKEHWPECHSIVgfamyyfTYDPWIGKLIYLEDFFVMSdYRGFIISSEIKNSQVAM--RCRCSSMHFLVAEWEPsINFYKRGASDLSseegWRLFkideyllkmatee</p> <p>qlapnrflvagepkagivfslip            -----</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=11.24% (19/169) simi=20.12% (34/169)            tpdfqivtqrlqlrlitadeaeelvcqirqsqtlhqwvdfwsqaeafiqatrlnwvkaeaygfgvferqtq-----kfvirpataadcsdilrlikelakyeymeeqviltekdllledgfggehpfyhclvaevpkehwtpegh-----TLVGVAINEFYHTFNASL-----YWIIGDRYORQYCKEATAIILFCFeLELTRLEIVCDPENVPsQALALRCGANREOL----APNRFLVAGEpkagivfslip            -----kfvirpataadcsdilrlikelakyeymeeqviltekdllledgfggehpfyhclvaevpkehwtpeghSIVGFAM--YFTYDPWIGKLIYLEDFFVMSdYRGFIISSEIKNSQVAM--RCRCSSMHFLVAEWEPsINFYKRGASDLSseegWRLFkideyllkmatee</p> <p>reqlapnrflvagepkagivfslip            -----</p> <p><b>Proposed:</b> aliSize=143 (resi) RMSD=3.06 (Å)            mtpdfqivtq-RLQLRLITAdEAeELVOCIRQS-OTL--HO-wvdfwsqeAE-OFIOATRL-NwVKAeAYGFGVFEROT-----OTLVGVAINEFYHT-FNMA-SGYWIGDR-YORQYCKEATAIILFCFeLELTRLEIVCDPENVPsQALALRCGANREOL----APNRFLVAGEpkagivfslip            -----kFVIRPATA-ADCS-DILRLIKELAKYEYMEEQ--VI---LTkdLLeDGFgGeHP----FVHCLVAVPKehwtpgehSIVGFAMYFTYD-PwIGKLIYLEDFFVMSdYRGFIISSEIKNSQVAM--RCRCSSMHFLVAEWEPsINFYKRGASDLSseegWRLFkideyllkmatee</p> <p>-IV--FSLip            lLkmaTEE--</p>
	2g3tA (169)			

585	<p>2fckA (174)</p> <p>2jevA (169)</p>	C	9.47	<p><b>TM-align:</b> aliSize=143 (resi) RMSD=3.73 (Å)  tpdfqivt-ORLQRLITAEAEELVOCIRROS-OTLHOWVDWFSQOEAEQFIQATRLNWVKAeA-GFGF-FROT-----OTLVGVAINEFYHT-FN-A-S-GYWIGDR-YORQYKKA-TA1-ILFCFe-LELTRLEIVCDPEVPSOALALcGANREQL----APNRfLYAGEpkagi vfs slip-  -----akFVIRPATAAACS-DILRLKELaKYEYMEEQVI--LTKDLLEDGFG--EHP-FHCLAAVPEKehwtpeghSIVGFAMYFTYDPWIGKLIY-EDFFVMSdVRGFICSI-I-KN-SQVAM-RCRCSSMHFLVAEWNEPSINFYK-RGASDLSseegwRLF-KIDKE-----y</p> <p>llkmate</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=6.80 (Å)  tpdfqivtqr--LQLRLITAEAEELVOCIRROSqt-HOWVDWFS-----QqaeqfiqATRLNWVKAeA----AYGFGVFEROTQLVVAINEFY-----HTFNASL---GYWIGDRYORQYKKA-TA1-ILFCFe-LELTRLEIVCDPEVPSOALALcGANRE-----  -----akFVIRPATAADCSDILRLKELaKYEYMEEQVILTE-----KDLLEDGFGGhpfyHCLVAEVPKEHWPEHSHVVG-AmyyftydPWIGKLIYleDFFVMSdVRGFICSI-I-KN-SQVAM-RCRCSSMHFLVAEWNEPSINFYK-RGASDLSseegwrlfkidkeyllkmat</p> <p>-qlapnrflyagepkagivfs slip  e-----</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=11.24% (19/169) simi=20.12% (34/169)  tpdfqivtqrlqlrlitadeaeelvcirqsqt lhwvdfwsqaeqfiqatrlnwvkaeaygfgvferqtq-----TLQVAINeFYHFNASL-----YWIGDRYORQYKKA-TA1-ILF  -----akfvirpataadcsdilrlikelakyeymeeqviltekdlldegfgehpfyhclvaevpkehwtpeghSIVGFAM--YFTYDPWIGKLIYledFFVMSdVRGFICSI-I-KN-SQV  CFe-LELTRLEIVCDPEVPSOALALcGAN-----reqlapnrflyagepkagivfs slip  AM-RCRCSSMHFLVAEWNEPSINFYKRGASdlssseegwrlfkidkeyllkmate-----</p> <p><b>Proposed:</b> aliSize=141 (resi) RMSD=3.04 (Å)  mtpdfqivt--ORLQRL--ITAE-AeEL-VqCI-RqsqTLHO-wvDFsqqEaeQFIQATRLNW-V-KAEAYGFGF-FROT--T-----OTLVgMVAINEFYHT--FNMASGYWIG-DRYORQYKKA-TA1-ILFCFe-LELTRLEIVCDPEVPSOALALcGANREQL---APNR-fLYagEPK  -----akFVIRPATAaDC-SDiL-RIK-ELak---YEYMe-EQV---I--LTKDLLEDGfGeHPFYHCL-VAVPEKehWtpeghSIVG-FAMYFTYDPWiGKLIY-EDFFVMSdVRGFICSI-I-KN-SQVAM-RCRCSSMHFLVAEWNEPSINFYK-RGASDLSseeQWRLF-KI--DKE  --AGI-Vfslip  yilKMaTE----</p>
586	<p>2fiaA (157)</p> <p>lufhB (154)</p>	C	14.94	<p><b>TM-align:</b> aliSize=136 (resi) RMSD=3.22 (Å)  MKTRVADEK-LPMI-QFLTeVKAY-MDvv-GIT-Q-----TK-DYP-SQG-DIOEDITK--KRYYLV--HEmF-SMATFCMFOO--DFVWLKR-FATSPN-IAKGYGSLLFHELEKRAVWE-RRKMYAOTNHT-NHRMIRFF-SKGF-TKIHESlqmnrldfgsfylyvkele--  IMLTPMQTE-FRSY-TYTT-KHY-aEE--kVKAgTwpedaQILSKqVFTdLLPRGLEtpHHLWSLkInEK-DIVGWLWIHAPEHPqQEAFIYDGLYEPYRGKGYAKQALAA-DOA-RSM-IRKLSLHVFAHQTARKLYEQTGEQETDVVM-----SK-----kl</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=5.29 (Å)  mki rvadekelpm-----LLOFLTevKAYMDVVG-iTQWTKDypsOGDIOEDITK-----KRLYLLVHE--EMF-SMATFCMFOO--DFVWLKR-FATSPN-IAKGYGSLLFHELEKRAVWE-RRKMYAOTNHT-NHRMIRFF-SKGF-TKIHESLQ--mnrldfgsfylyvkele  -----imltpmqteefrsyLYTTTKHYAEEKVKAG--TVLPE--DAQLLSKQVFTdLLprgletpHHLWSLkInEK-DIVGWLWIHAPEHPqQEAFIYDGLYEPYRGKGYAKQALAA-DOA-RSM-IRKLSLHVFAHQTARKLYEQTGEQETDVVMskkl-----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=10.39% (16/154) simi=16.23% (25/154)  mki rvadekelpmi lqfltevkaymdvvgitqwtkdypsagdiqedittkrlyllvheemifsmatfcme-----imltpmqteefrsyltytkhyaeekvkagtwlpedaql lskqvftdLLprgletpHHLWSLkInEK-DIVGWLWIHAPEHPqQEAFIYDGLYEPYRGKGYAKQALAA-DOA-RSM  RRKMYAOTNHT-NHRMIRFF-SKGF-----tkihESlqmnrldfgsfylyvkele  IRKLSLHVFAHQTARKLYEQTGEQETDVVMskkl-----</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.43 (Å)  MKTRVADEK-LPMI-QFLTeVKAYMDVVG-iTQWTKDypsOGDIOEDITK--KRYYLV--HEmF-SMATFCMFOO--DFVWLKR-FATSPN-IAKGYGSLLFHELEKRAVWE-RRKMYAOTNHT-NHRMIRFF-SKGF-TKIHESlqmnrlLdFgsfylyvkele  IMLTPMQTE-FRSY-TYTTk--HYa---E---EkvKAgTwpeda-QILSKqVFTdLLPRGLEtpHHLWSLkInEK-DIVGWLWIHAPEHPqQEAFIYDGLYEPYRGKGYAKQALAA-DOA-RSM-IRKLSLHVFAHQTARKLYEQTGEQETDVVM-----V-M-SKkl-----</p>
587	<p>2fl4A (147)</p> <p>lqsmD (152)</p>	N	12.24	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=3.08 (Å)  gmeihfekvtsdnrkavenl-----Vfa-EqqAFIESMAENLKESDQF-----PEWESAGIYDG--NOLIGYAMYGRWOD-----GRVWLDRLFIQRFQGGYYKAACRLLMLKLIIEKYQNKLYLSVYDTSSAIRLYQQLGFVFNGLDNGermvewthq---  -----sednitrfrvtendkegwrlwksyD--YE--VS-FPDDLDFNFRGLDpnIKMWA-AVAVESsEKIIGMINFFNHMTtwdfkdKIYINDLYVDENSRVKCAAGKLIQFVYDEADK-LGTPSVWCTDES-NHRAQLYVKVGYKAPKIlykrkgy-----kgy</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=11.19 (Å)  gmei-----HFEEKVSDNRKAVENlqvfaeQAFIESMA-----ENLKESDQFPEW-ESAGIYDG--NOLIGYAMYGRWODG-----RVWLDRLFIQRFQGGYYKAACRLLMLKLIIEKYQNKLYLSVYDTSSAIRLYQQLGFVFN-----geldtngermvewthq  -----sednitrfrvtendkegwrlwksyD--YE--VS-FPDDLDFNFRGLDpnIKMWA-AVAVESsEKIIGMINFFNHMTtwdfkdKIYINDLYVDENSRVKCAAGKLIQFVYDEADK-LGTPSVWCTDES-NHRAQLYVKVGYKAPKIlykrkgy-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=17.01% (25/147) simi=41.50% (61/147)  gmeihfek-----VSDNRKAVENlqvfaeQAFIESMA-----ENLKESDQFPEW-ESAGIYDG--NOLIGYAMYGRWODG-----RVWLDRLFIQRFQGGYYKAACRLLMLKLIIEKYQNKLYLSVYDTSSAIRLYQQLGFVFN-----vfgeldtngermvewthq  -----sednitrfrvtendkegwrlwksyD--YE--VS-FPDDLDFNFRGLDpnIKMWA-AVAVESsEKIIGMINFFNHMTtwdfkdKIYINDLYVDENSRVKCAAGKLIQFVYDEADK-LGTPSVWCTDES-NHRAQLYVKVGYKAPKIlykrkgy-----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.33 (Å)  -GMEHFEEKVSDNRKAVENlqvfaeQAFIESMA-----ENLKESDQFPEW-ESAGIYDG--NOLIGYAMYGRWODG-----GRVWLDRLFIQRFQGGYYKAACRLLMLKLIIEKYQNKLYLSVYDTSSAIRLYQQLGFVFNGLDNGermvewthq  sEDNITVRFRVTENDKEGWRLWksyD--YE--VS-FPDDLDFNFRGLDpnIKMWA-AVAVESsEKIIGMINFFNHMTtwdfkdKIYINDLYVDENSRVKCAAGKLIQFVYDEADK-LGTPSVWCTDES-NHRAQLYVKVGYKAPKIlykrkgya-----</p>

588	<p>2fl4A (147)</p> <hr/> <p>lqsmD (152)</p>	C	9.52	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=3.08 (Å)  gmeihfekvtsdnrkavenl-----VFa-fqqAFIESMAENLKESDQF----PEWESAGIYDG--NOLICYAMYGRWOD----GRVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLgFVFNGLDtnGermwethq---  -----sednitvrfvtendkegwqrllwksyDF-y--VS-FPDDLDFNFRGfIdpnIKMWAAVAVESssEKIIGMINFFNHMTtwdfkDKIYINDLYVDENSRVKCAAGKLIQFVYDEADK-LGTPSVWCTDES HRAQLYVKV-GYKAPKIYKR-----kgy</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=11.19 (Å)  gmei----HFEEKVSDNRKAVENlqvfaeQQAfIESMA-----ENLKESDQFPEW-ESAGIYDG--NOLICYAMYGRWODG----RVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVN-----geLdtngermewthq  ----sednitVRFVTENDKEGWQR-----LWKSyQDFYevsfpddldDFNFRGFLDpIkMWAAVAVESssEKIIGMINFFNHMTtwdfkdKIYINDLYVDENSRVKCAAGKLIQFVYDEADKLG-TPSVWCTDES HRAQLYVKVGYKAPKIlykrkgy-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=17.01% (25/147) simi=41.50% (61/147)  gmeihfek-----VSDNRKAVENlqvFAEQQAfIESMAENLKESD--QF--PE--ESAGIYDGNQ-LICYAMY----GRVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGF-----vfngelDtngermewthq  -----sednitvrfvtendkegwqrllwksyQDFYevsFPDDLDFNFRGfIdpIkMWAAVAVESSEKIGMINFFnhmTtwdfkDKIYINDLYVDENSRVKCAAGKLIQFVYDE-ADLGTTPSVWCTDES HRAQLYVKVGYkAPKIlykrkgy-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.29 (Å)  gmeihfekvtsdnrkavenlqvfaeqqaf-----I-eSM-----AENLKESDQF----PEWESAGIYDG--NOLICYAMYGRWOD----GRVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVFNGLDtnGERVM-ewthq  -----sednitvrfvtendkegwqrllwksyqdfyevsfpDDLDFNFRGfIdpnIKMWAAVAVESssEKIIGMINFFNHMTtwdfkDKIYINDLYVDENSRVKCAAGKLIQFVYDEADK-LGTPSVWCTDES HRAQLYVKVGYKAPKIlykrkgy-----</p>
589	<p>2fl4A (147)</p> <hr/> <p>lufhA (155)</p>	N	14.97	<p><b>TM-align:</b> aliSize=110 (resi) RMSD=3.21 (Å)  gmeihfekvtsd-----NRKAVENlqvfaeqqafi-----Esm--AE-NLKESDQFPEWESAGIYDGN-OLICYAMYGRWODG--RVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVNGLDtnGERmewthq---  -----timltpmqteefrsyltyttkhyaeekVKAGTWLP-----edaqllsk--qvFTdLPRGLETPHHHLWSLKLNEkDIVGWLWIHAEPeHppqEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQET-DV---VM-----skkl</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=4.21 (Å)  gmeihfekvtsdnrkavenlqvfaeq-----QAFTIESMAENLKES--DOFPEWESAGIYDGNOLICYAMYGR---WODGRVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVNGLDtnGERmewthq  -----timltpmqteefrsyltyttkhyaeekvkagtwlpedaQLLSKQVFTDLLPrgLETPHHHLWSLKLNEkDIVGWLWIHAEPeHPQOEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQETDVMskkl-----  wthq  ----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=19.05% (28/147) simi=36.73% (54/147)  gmeihfekvtsdnrkav-----NLFVFAEQQAfIESMAENLKESDQFPEWESAGIYDGNOLICYAMYGRWODGRVWLDRLI-----ORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGF-----vfngeldtnger  -----timltpmqteefrsyltyttkhyaeekvkagtwlpedaQLLSKQVFTDLLPrgLETPHHHLWSLKLNEkDIVGWLWIHAEPeHPQOEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQETDVMskkl-----  vmewthq  -----</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=2.47 (Å)  GmEIHFEKVSdNRKAVENLQ-VF--AFO-----Q-----afIeSMAENLKES--E-sDOFPEWESAGIYDGN-OLICYAMYGRWODGRVWLDRLI-----ORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVNGLDtnGERmewthq  T-IMLTPMQTE-EFRSYLTYTtkhyaEekvkagtwlpedaql-Ls-KOVFT-DIIPrg-LETPHHHLWSLKLNEkDIVGWLWIHAEPe-HppqOEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQET-DV---Vmskkl-----</p>
590	<p>2fl4A (147)</p> <hr/> <p>lufhA (155)</p>	C	14.97	<p><b>TM-align:</b> aliSize=110 (resi) RMSD=3.21 (Å)  gmeihfekvtsd-----NRKAVENlqvfaeqqafi-----Esm--AE-NLKESDQFPEWESAGIYDGN-OLICYAMYGRWODG--RVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVNGLDtnGERmewthq---  -----timltpmqteefrsyltyttkhyaeekVKAGTWLP-----edaqllsk--qvFTdLPRGLETPHHHLWSLKLNEkDIVGWLWIHAEPeHppqEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQET-DV---VM-----skkl</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=4.21 (Å)  gmeihfekvtsdnrkavenlqvfaeq-----QAFTIESMAENLKES--DOFPEWESAGIYDGNOLICYAMYGR---WODGRVWLDRLIDORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVNGLDtnGERmewthq  -----timltpmqteefrsyltyttkhyaeekvkagtwlpedaQLLSKQVFTDLLPrgLETPHHHLWSLKLNEkDIVGWLWIHAEPeHPQOEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQETDVMskkl-----  wthq  ----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=19.05% (28/147) simi=36.73% (54/147)  gmeihfekvtsdnrkav-----NLFVFAEQQAfIESMAENLKESDQFPEWESAGIYDGNOLICYAMYGRWODGRVWLDRLI-----ORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGF-----vfngeldtnger  -----timltpmqteefrsyltyttkhyaeekvkagtwlpedaQLLSKQVFTDLLPrgLETPHHHLWSLKLNEkDIVGWLWIHAEPeHPQOEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQETDVMskkl-----  vmewthq  -----</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.80 (Å)  gmeihfekvtsdn-----R--KA-V-enL-----qvfaeqqafiesmaen---lke--SDQFPEWESAGIYDGN-OLICYAMYGRWODGRVWLDRLI-----ORFOGQGYKAACRLMLKLIeKqTNKLYLSVYDTNSSAIRLYQQLGFVNGLDtnGER  -----timltpmqteefrsyltyttkhyaeekvkagtwlpedaql-ls-kvft-DIIPrg-LETPHHHLWSLKLNEkDIVGWLWIHAEPe-HppqOEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEITGEQET-DV-----DV  VMEWTHq  VMSKKL-</p>

591	<p>2fl4A (147)</p> <hr/> <p>lufhB (154)</p>	N	14.29	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=3.39 (Å)  gmeihfekvtsd-----N-RKAVeNLOvfa--EqqAfi--ESm-AE-NLKESDOFPEWESAGTYDG-NOLICYAMYGRWODG---RVWLDRLIDORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNgELdtnGermewthq----  -----imltpmqteefrsyltyttkhyaeekVkaGTW-LPE---daQ--L--lsKQ-vFTdLLPRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHpqqEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEQTGFQET-DV---VM-----skkl</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=11.41 (Å)  gmei-HFEKVTSDNRKAVENlqvfaEQOAFLESMA-----ENLKESDOFPE-----WESAGIYDGNOLICYAMYGRWOD---GRVWLDRLIDORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNGLD-----tngervmewthq  ----iMLTPMOTEEFRSYLT-----YTTKHyaEEKvkagtwlpedaqlISKQVFTDLLPRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHpqqEAFIYDGLYEPYRCKGYAKQALAA-DQAA-RSMGIRKLSLHFAHNOTARKLYEQTGFQETDVMskkl-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=19.05% (28/147) simi=36.73% (54/147)  gmeihfekvtsdnrkav-----NLOVFAEQaAIESMAENLKESDOFPEWESAGTYDG-NOLICYAMYGRWODGRVWLDRLID---ORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGF-----vfgeldtngerv  -----imltpmqteefrsyltyttkhyaeekvkagtwlpEDAQLLSKQ-VFTDLLPRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHPQEAFTYDfglyEPYRCKGYAKQALAA-D-QAARSMGIRKLSLHFAHNOTARKLYEQTGFqetdvmskkl-----  mewthq  -----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.56 (Å)  gMEIHFEKVTSDNRKAVENLQ-VF--AQO---Q---aF---TESMAENLK--E--sDOFPEWESAGTYDG-NOLICYAMYGRW---OD-GRVWLDRLIDORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNgELdtnG-----ermewthq  -iMLTPMOTEEFRSYLT-----YTTKHyaEEKvkagtwlpedaqlLSKQVFT-DIIPrg-LETTPHHHLWSLKLNeKDIVGWLWIHAEPeHPQEAFTYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEQTGFQET-DV---Vmskkl-----</p>
592	<p>2fl4A (147)</p> <hr/> <p>lufhB (154)</p>	C	13.61	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=3.39 (Å)  gmeihfekvtsd-----N-RKAVeNLOvfa--EqqAfi--ESm-AE-NLKESDOFPEWESAGTYDG-NOLICYAMYGRWODG---RVWLDRLIDORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNgELdtnGermewthq----  -----imltpmqteefrsyltyttkhyaeekVkaGTW-LPE---daQ--L--lsKQ-vFTdLLPRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHpqqEAFIYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEQTGFQET-DV---VM-----skkl</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=11.41 (Å)  gmei-HFEKVTSDNRKAVENlqvfaEQOAFLESMA-----ENLKESDOFPE-----WESAGIYDGNOLICYAMYGRWOD---GRVWLDRLIDORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNGLD-----tngervmewthq  ----iMLTPMOTEEFRSYLT-----YTTKHyaEEKvkagtwlpedaqlISKQVFTDLLPRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHpqqEAFIYDGLYEPYRCKGYAKQALAA-DQAA-RSMGIRKLSLHFAHNOTARKLYEQTGFQETDVMskkl-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=19.05% (28/147) simi=36.73% (54/147)  gmeihfekvtsdnrkav-----NLOVFAEQaAIESMAENLKESDOFPEWESAGTYDG-NOLICYAMYGRWODGRVWLDRLID---ORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGF-----vIngeldtngerv  -----imltpmqteefrsyltyttkhyaeekvkagtwlpEDAQLLSKQ-VFTDLLPRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHPQEAFTYDfglyEPYRCKGYAKQALAA-D-QAARSMGIRKLSLHFAHNOTARKLYEQTGFqetdvmskkl-----  mewthq  -----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=2.14 (Å)  gmeihfekvtsdnr-----KAVE---nL---qvfaeqqafieS---maE--N1KESDOFPEWESAGTYDG-NOLICYAMYGRW---OD-GRVWLDRLIDORFOCOGYGAA-CRLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVIngeldtngervMEWTHQ-  -----imltpmqteefrsyltyttkhyaeekVkaGTWlpedaqls-----KqvftDIL-PRGLETPHHHLWSLKLNeKDIVGWLWIHAEPeHPQEAFTYDGLYEPYRCKGYAKQALAA-DQAARSMG-IRKLSLHFAHNOTARKLYEQTGFQETDVMskkl-----</p>
593	<p>2fl4A (147)</p> <hr/> <p>lvkaA (149)</p>	N	11.56	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=3.19 (Å)  gmeihfekvtsdnrkav-----ENLOVfa--EOQAFIESMAENLKESDOFPEWESAGTYDG--NOLICYAMYGRWQ---D-GRVWLDRLIDORFOCOGYGAAACLLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNgELdtnGermewthq---  -----eytvdgeeyieeikkldreisySvRFP--SYEEYBERH-BELFESLLSQ-GEHKFFVALNerSELLGHVWICITLdtvdYvKIAYIYDIEVVKWARGLGISALLKAEWAKER-GAKKIVRVEIDNP-AVKWWEERYKAR-AL--IME-----kpi</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=11.52 (Å)  gmei-HFEKVTSDNRKAV-----ENLOVFAEQOAFIESMAENLKESDOFPEWESAGIYDGNOLICYAMYGRWODG---RVWLDRLIDORFOCOGYGAAACLLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNGLD-----dtngervmewthq  ----eYITVDGEEYIEEIKldreisySvRFPISYEEYBERHEELFESLLSQGKHKFFVALNerSELLGHVWICITLdtvdyvKIAYIYDIEVVKWARGLGISALLKAEWAKER-GAKKIVRVEIDNP-AVKWWEERYKARALImekpi-----</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=11.56% (17/147) simi=22.45% (33/147)  gmeihfekvtsdnrkavenlqvfaeqqafiesmaenlkESDqfpwesagiYDgnqIgyamygrwqd-----eytvdgeeyieeikkldreisySvRFPISYEEYBERHEELFESllsqgehkfvalnersellGHVWICITLdtvdyvKIAYIYDIEVVKWARGLGISALLKAEWAKER-GAKKIVRVEIDNP-AVKWWEERYKAR-AL--IME-----  SYDTSSAIRLYOOLGF-----vfgeldtngervmewthq  RVEIDNP-AVKWWEERYKARALImekpi-----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.56 (Å)  GMEIHFEKVTSDNRKAVENLQ-VFAF--OQafI-----eS---maen-1KESDOFPEWESAGTYDG--NOLICYAMYGRWQ---D-GRVWLDRLIDORFOCOGYGAAACLLMLKLIKLYqTNKLYSYDTSSAIRLYOOLGFVFNgELdtnG-----ermewthq  EYITVDGEE---YIEEIK-KLdreisySvRFPISYEEYBERHEE---Lf-ESLLSQ-GEHKFFVALNerSELLGHVWICITLdtvdyvKIAYIYDIEVVKWARGLGISALLKAEWAKER-GAKKIVRVEIDNP-AVKWWEERYKAR-AL--IME-----</p>

594	<p>2f14A (147)</p> <p>1vkcA (149)</p>	C	12.93	<p><b>TM-align:</b> aliSize=113 (resi) RMSD=3.19 (Å)  gmeihfekvtsdnrkav-----ENLOVFAEQOAFIE-SMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERvmewthq---  -----eytividgeeyieeikkldreisySFVRFPISYEEYERHEELFESLLSQ-GEHKFFVALNerSELGHVWICITLdtvdyvkiAYIYDIEVVKWARGLIGSALLKAEWAKER-GAKKIVRVEIDNP-AVKWYEERIKAR-AL--IME-----kpi</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=11.52 (Å)  gmei-HFEKVTSDNRKAV-----ENLOVFAEQOAFIE-SMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----RVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERvmewthq  -----eYITVDGEEYIEEIKKLDREISYFVRFPISYEEYERHEELFESLLSQ-GEHKFFVALNerSELGHVWICITLdtvdyvkiAYIYDIEVVKWARGLIGSALLKAEWAKER-GAKKIVRVEIDNP-AVKWYEERIKARALIMEkpi-----</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=11.56% (17/147) simi=22.45% (33/147)  gmeihfekvtsdnrkavenlqvfaeqqafiesmaenlkesdqfpewesagi ydgnqligyamygrwqd-----eytividgeeyieeikkldreisyfvrfpisyeyeerheelfesllsqgehkffvalnersellGRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERvmewthq  -----RVEIDNP-AVKWYEERIKARALIMEkpi-----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=2.38 (Å)  gmeihfekvtsdnrkave-----NLOVFAEQOAFIE-SMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERVMWTHQ  -----eytividgeeyieeikkldreisyFVRFPISYEEYERHEELFESLLSQ-GEHKFFVALNerSELGHVWICITLdtvdyvkiAYIYDIEVVKWARGLIGSALLKAEWAKER-GAKKIVRVEIDNP-AVKWYEERIKAR-AL--IME-----RALIMEKPI-</p>
595	<p>2f14A (147)</p> <p>1z4eA (150)</p>	N	14.29	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.96 (Å)  gmeihfekvtsdnrkave-----NLOVFAEQOAFIE-SMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERvmewthq---  -----hvtireategdleqmvhmladdvLGRKRERYEK-pLPvSYVRAFKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERGCHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KM-----hf</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=11.20 (Å)  gmei-HFEKVTSDN-----RKAVENLqvfaeqqafiesmaenlkesdqfpewesagi ydgnqligyamygrwod-----RVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERVMWTHQ  -----hvtireategdleqmvhmladdvLGRKReryekplpvsyvrafKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERG-CHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KMhf-----</p> <p><b>BLAST:</b> aliSize=31 (resi) iden=14.29% (21/147) simi=21.09% (31/147)  gmeihfekvtsdnrkavenlqvfaeqqafiesmaenlkesdqfpewesagi ydgnqligyamygrwod-----hvtireategdleqmvhmladdvLGRKReryekplpvsyvrafKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERG-CHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KMhf-----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.49 (Å)  GMEIHFEKVTSDNRKAVENLQVFAEQOAFIESMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERVMWTHQ  HVTIREATEGDLQVFAEQOAFIESMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERVMWTHQ</p>
596	<p>2f14A (147)</p> <p>1z4eA (150)</p>	C	12.93	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.96 (Å)  gmeihfekvtsdnrkave-----NLOVFAEQOAFIE-SMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERvmewthq---  -----hvtireategdleqmvhmladdvLGRKRERYEK-pLPvSYVRAFKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERGCHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KM-----hf</p> <p><b>SARST:</b> aliSize=128 (resi) RMSD=11.20 (Å)  gmei-HFEKVTSDN-----RKAVENLqvfaeqqafiesmaenlkesdqfpewesagi ydgnqligyamygrwod-----RVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERVMWTHQ  -----hvtireategdleqmvhmladdvLGRKReryekplpvsyvrafKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERG-CHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KMhf-----</p> <p><b>BLAST:</b> aliSize=31 (resi) iden=14.29% (21/147) simi=21.09% (31/147)  gmeihfekvtsdnrkavenlqvfaeqqafiesmaenlkesdqfpewesagi ydgnqligyamygrwod-----hvtireategdleqmvhmladdvLGRKReryekplpvsyvrafKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERG-CHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KMhf-----</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=2.37 (Å)  gmeihfekvtsdnrkave-----NLOVFAEQOAFIESMAENLKESDOPPEWESAGIYDGNOLIGYAMYGRWOD-----D-GRVWLDLDRFLIDORFOGOCYKAAACRLMLKLIeKYOTNKLYISVYDTNSSLIRLYOOLGFVFNgeLdtnGERVMWTHQ  -----hvtireategdleqmvhmladdvLGRKReryekplpvsyvrafKEIKKDKNNLIVACNGEEIVGMLQVTFPTY1tyqgsWRATIEGVRTHSAARGOCIGSQLVCWATERAK-ERGCHLIQITTDKQRPDALRFNEOLGFKASHHEGL-KMhf-----</p>

597	2fyxA (130)	C	33.08	<p><b>TM-align:</b> aliSize=110 (resi) RMSD=1.47 (Å)  ---MKKGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLK-QPhwGGnLWNPSCYVLTVSehtraqiqqyienqhaa-----  avLYSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--PT-LWTNSCFISTVGG-----gaplnvkvqyienqgn</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=2.13 (Å)  m----KGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKqPhwGGnLWNPSCYVLTVS-----ehtraqiqqyienqhaa  -avLYSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--KTKLPTLWNTNSCFISTVGGaplnvkvqyienqgn-----</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=33.08% (43/130) simi=52.31% (68/130)  m----KGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLTVSEHTRAQIQOYIENQ--haa  -avLYSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--PTLWNTNSCFISTVGGAPLNVVKOYIENQqn---</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=1.51 (Å)  ---MKKGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLTVSEHTRAQIQOYIENQHaa  avLYSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL-LPT-LWTNSCFISTVGGAPLNVVKOYIENQqn-</p>
	2a6mA (130)			
598	2fyxA (130)	C	40.00	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=1.68 (Å)  --MKKGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLK-QPhwGGnLWNPSCYVLTVSehtraqiqqyienqhaa-----  meYKSTRHAKL LCNVHFVWIPKYRRKVL TGEVAEYTKVEVLR TLAELLCFVLALEVMPDHIHLFVNCPPRYAPSYLANFYKGSARLILKKQELKST--NCKLWTRSYFVSTSG-----nvssetikkyieeqwa</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=9.86 (Å)  m---KGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKqPhwGGnLWNPSCYVLTVSEHTRAQIQOYIEN---qhaa  -meyKSTRHAKL LCNVHFVWIPKYRRKVL TGEVAEYTKVEVLR TLAELLCFVLALEVMPDHIHLFVNCPPRYAPSYLANFYKGSARLILKKQELKST--KKSTNGKI WTRSYFVSTSGNVSETIKKYIEEqa----</p> <p><b>BLAST:</b> aliSize=73 (resi) iden=40.77% (53/130) simi=56.15% (73/130)  m---KGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLTVSEHTRAQIQOYIENHaa  -meyKSTRHAKL LCNVHFVWIPKYRRKVL TGEVAEYTKVEVLR TLAELLCFVLALEVMPDHIHLFVNCPPRYA-PSYLANFYKGSARLILKKQELKST--NCKLWTRSYFVSTSGNVSETIKKYIEEqa-</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=1.68 (Å)  --MKKGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLT-VSeHTRAQIQOYIENQHaa  meYKSTRHAKL LCNVHFVWIPKYRRKVL TGEVAEYTKVEVLR TLAELLCFVLALEVMPDHIHLFVNCPPRYAPSYLANFYKGSARLILKKQELKST--NCKLWTRSYFVSTSGNVSETIKKYIEEqa-</p>
	2ec2A (130)			
599	2fyxA (130)	C	34.13	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=1.71 (Å)  -MKKGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLTVSehtraqiqqyienqhaa-----  1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--KTKLPTLWNTNSCFISTVGG-----aplnvkvqyienq</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=7.72 (Å)  m---KGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKqPhwGGnLWNPSCYVLTVS----EHTRAQIQOYIENqhaa  -lyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--KTKLPTLWNTNSCFISTVGGaplnvkvqyienq-----</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=34.13% (43/126) simi=53.97% (68/126)  m---KGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLTVSEHTRAQIQOYIENqhaa  -lyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--PTLWNTNSCFISTVGGAPLNVVKOYIENQ---</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=1.42 (Å)  -MKKGRGYVYKLEYHLI WATKYRHQVLDDEVADGLKDI LRDIATQNGLELVALEVMPDYVHLLGATPOHVPDFVKALKGASARRMFSAPHLKQPhwGGnLWNPSCYVLTVSEHTRAQIQOYIENQHaa  1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRLEKEIQEVAKELRVEI IEMQTDKDHIIHADIDSFVGMKFKTAKGRSSILRQENHLKTKL--KTKLPTLWNTNSCFISTVGGAPLNVVKOYIENQ---</p>
	2vhgA (126)			



600	<p>2fyxA (130)</p> <p>2vihA (151)</p>	C	30.00	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=1.72 (Å)  --MKGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhWGGnLNPSYCVLTVS-Ehtraqiqyienqhaa-----  v1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVGGaP-----lnvkvqyienqnsnrpkqkekwsyvdnlqtka1</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=7.62 (Å)  m---KGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKqPhWGGNLNPSYCVLTVSEHTRAQIQQYIEN-----qhaa  -vlyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVGGAPLNVVKQYIENqnsnrpkqkekwsyvdnlqtka1----</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=33.08% (43/130) simi=52.31% (68/130)  m---KGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhwgNLPNSYCVLTVSEHTRAQIQQYIENQ-----haa  -vlyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTKL--PTLWNSCFISTVGGAPLNVVKQYIENqnsnrpkqkekwsyvdnlqtka1---</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=1.54 (Å)  --MKGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhWGGnLNPSYCVLTVS-EHTRAQIQQYIENQH-----aa  v1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVGGAPLNVVKQYIENQnsnrpkqkekwsyvdnlqtka1--</p>
601	<p>2fyxA (130)</p> <p>2vihB (129)</p>	C	33.33	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=1.70 (Å)  --MKGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhWGGnLNPSYCVLTVS-Ehtraqiqyienqhaa-----  v1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVGGaP-----lnvkvqyienqqn</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=7.64 (Å)  m---KGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKqPhWGGNLNPSYCVLTVSEHTRAQIQQYIEN-----qhaa  -vlyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVGGAPLNVVKQYIENqqn----</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=33.33% (43/129) simi=52.71% (68/129)  m---KGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhwgNLPNSYCVLTVSEHTRAQIQQYIENQ-----haa  -vlyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTKL--PTLWNSCFISTVGGAPLNVVKQYIENqqn---</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=1.51 (Å)  --MKGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhWGGnLNPSYCVLTV-SEHTRAQIQQYIENQH-aa  v1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVgG-APLNVVKQYIENQn--</p>
602	<p>2fyxA (130)</p> <p>2vjvA (125)</p>	C	33.60	<p><b>TM-align:</b> aliSize=111 (resi) RMSD=1.66 (Å)  MKRG-RGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhWGGnLNPSYCVLTVSehtraqiqyienqhaa-----  LYKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVgG-----gaplnvkvqyien</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=2.47 (Å)  m---KGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKqPhWGGNLNPSYCVLTVSE-----htraqiqyienqhaa  -lyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVGGAPlnvkvqyien-----</p> <p><b>BLAST:</b> aliSize=67 (resi) iden=33.60% (42/125) simi=53.60% (67/125)  m---KGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhwgNLPNSYCVLTVSEHTRAQIQQYIENqhaa  -lyKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTKL--PTLWNSCFISTVGGAPLNVVKQYIEN-----</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.58 (Å)  --MKGRGYVKLEYHLI WATKYRHQVLVDEADGKDLRDIATQNGLELVALEVMPDYVHLLGATPOHVIPDFVVALKGAASARRMFSAPHLKQPhWGGnLNPSYCVLTV--SehTRAQIQQYIENqhaa  1YKSNHNVVY SCKYHIVWCPKYRRKVLVGAEMRKEIIOEVAKELRVEIIEMOTDKDHIHILADIDSFVGMKFIKTAKGRSSRIILROEENHLTK-LPT-LWTNSCFISTVggA--PLNVVKQYIEN-----</p>

603	<p data-bbox="163 226 252 300">2g84A (189)</p> <p data-bbox="163 548 252 621">1wkqA (158)</p>	C	<p data-bbox="468 136 2878 262"> <b>TM-align:</b> aliSize=120 (resi) RMSD=1.70 (Å)            mndalhiglpplvqanneprVLAAPFARMGYVLEVRANIAADGGPFAAVFrdSLLLIAATNRVPGRCSSAAHAHILALSLQAKIDTHDLSadglpAEVITSAEPCVMCFGAVISGVRSLVCAARSDDVEAIGFDE--GPR-PENwmggleargitvttellrdaacallreynacnviwn            -----HAMNHITFLKRAVTACEGVNIGIGPFGAVIVK--DAIIEEQNNITTSNDPTAHAEVTAIRKCKVIGAYQLD-----DIIYTSCEPCPMLGAIYARPkAVFYAAEHTAAEAAGFDDsfIYkeID-----            arc-----            ---kpaeertipfyqvtltehlsfpqawrnfankey         </p> <p data-bbox="468 283 2878 409"> <b>SARST:</b> aliSize=121 (resi) RMSD=5.79 (Å)            mndalhiglpplvqanneprvlaa---PARMGYVLEVRANIAADGGPFAAVFrdSLLLIAATNRVPGRCSSAAHAHILALSLQAKIDTHDLSadGLpacELVITSAEPCVMCFGAVISGVRSLVCAARSDDVEAIGFdegprpENWMGGLFARGIT-----            -----hamnhITFLKRAVTACEGVNIGIGPFGAVIVK--DAIIEEQNNITTSNDPTAHAEVTAIRKCKVIGAYQLD-----DC---IYTSCEPCPMLGAIYARPkAVFYAAEHTAAEAAGFDDsfIYkeIDKPaeertipfyqvtltehlsfpqawrn            -----vttgllrdaacallreynacnviwnarc            fankey-----         </p> <p data-bbox="468 430 2878 556"> <b>BLAST:</b> aliSize=53 (resi) iden=25.95% (41/158) simi=33.54% (53/158)            mndalhiglpplvqanneprvlaapearmgyvlelvrani-----ADGGPFAAVFrdSLLLIAATNRVPGRCSSAAHAHILALSLQAKIDthdLSADGLpacELVITSAEPCVMCFGAVISGVRSLVCAARSDDVEAIGFDE-----            -----hamnhITFLKRAVTACEGVNIGIGPFGAVIVK--DAIIEEQNNITTSNDPTAHAEVTAIRKCKVIGAYQLD-----DIIYTSCEPCPMLGAIYARPkAVFYAAEHTAAEAAGFDDsfIYkeIDkpaeertipfyqvtlteh            -----gprpenwmggleargitvtgllrdaacallreynacnviwnarc            lspfawrnfankey-----         </p> <p data-bbox="468 577 2878 703"> <b>Proposed:</b> aliSize=145 (resi) RMSD=1.44 (Å)            mndalhiglpplvqanneprvl--AAPARMGYVLEVRANIAADGGPFAAVFrdSLLLIAATNRVPGRCSSAAHAHILALSLQAKIDTHDLSadglpAEVITSAEPCVMCFGAVISGVRSLVCAARSDDVEAIGFDE-----gprPENWMGGLFARGITVTTGLrDAACALREYNACn            -----hamnhITFLKRAVTACEGVNIGIGPFGAVIVK--DAIIEEQNNITTSNDPTAHAEVTAIRKCKVIGAYQLD-----DIIYTSCEPCPMLGAIYARPkAVFYAAEHTAAEAAGFDDsfIYke---IDKPAE--RT--PFYQVT--TEHLSPFQAWRNf-            GV----iynarc            ANkkey-----         </p>
604	<p data-bbox="163 873 252 947">2gbzA (179)</p> <p data-bbox="163 1194 252 1268">2pljB (171)</p>	C	<p data-bbox="468 787 2878 913"> <b>TM-align:</b> aliSize=132 (resi) RMSD=3.21 (Å)            ndrLWIDLEMIGLTDRLSIEATIVTDAQ1NVLAAGPELAIAHSLITLEAMdewnRNOHRrsgLW-ORVLDsqVTHAOEAOTVAFLGwirAgASPmCGNSICORRFHROMS--R-ERyfhYRNLDVSTIKEL-ARRwa----PA-VASGFAKSSAhtalsdvrdsidelrhrvrafmetlge            --TFVLDFTTGLDPOVDEIEIGAVKIQGG-QIVDYHTLTKPS-REISRK---SSEITG---ITqEMLENK-RSIEEVLPEFLGL-----E-DIIVAHNANFYRFLRLWIKkvmgLDW--ERPYPITLALAKSLKLR-syldsvVEKLGPFRRH-----            -----            hralddarvtaqvflrfvemmkkeghh         </p> <p data-bbox="468 934 2878 1060"> <b>SARST:</b> aliSize=148 (resi) RMSD=13.11 (Å)            ndrLWIDLEMIGLTDRLSIEATIVTDAQ1NVLAAGPELAIAHSLITLEAMdewnRNOHRrsgLwq--RVLDSOVTHAOEAOTVAFLGwirAgASPmCGNSICORRFHRO-----MSRLERYFHYNLDVSTIKELARRwapavaSGFAKSSAHTALSDVRDSIDEIRHYROF            ---TFVLDFTTGLDPOVDEIEIGAVKIQGG-QIVDYHTLTKPSRE-ISR---KSSIEITG---ITqEMLENKRSTIEEVLPEFLGL-----EDSIIVAHNANFYRFLRLWIKkvmgldwerpyidTlALAKSLLKRSYSLDSVVEK-----GLGPFRRHRALDDARVTAQVFLRFVEMM            M-----gtlge            Kkeghh-----         </p> <p data-bbox="468 1081 2878 1207"> <b>BLAST:</b> aliSize=38 (resi) iden=15.79% (27/171) simi=22.22% (38/171)            ndrliw----LIDLEMIGLTDRLSIEATI-VTDAQL---NVLAAGPELAIAHSLITLEAMdewnRNOHRrsgLWORV----DSQVTHAOEAOTVAFLGwir-----agaspmcgnsi            ----TFVLDFTTGLDPOVDEIEIGAVKIQGG-QIVDYHTLTKPSRE-ISR---KSSIEITG---ITqEMLENKRSTIEEVLPEFLGL-----EDSIIVAHNANFYRFLRLWIKkvmgldwerpyidTlAlaksllkrsyslsvveklglgprhrhralddarvtaqvflrfvemmkkeghh-----            cqdrrflhrqmsrleryfhyrnlDvstikelarrwapavasgfakssahalsdvrdsidelrhrqfmgtlge         </p> <p data-bbox="468 1228 2878 1354"> <b>Proposed:</b> aliSize=134 (resi) RMSD=2.07 (Å)            ndrLWIDLEMIGLTDRLSIEATIVTDAQ1NVLAAGPELAIAHSLITLEAMdewnRNOHRrsgLW-ORVLDsqVTHAOEAOTVAFLGwirAgASPmCGNSICORRFHROMS----R-1ERYfhYRNLDVST-----ikelarrwapavasgfakssah            --TFVLDFTTGLDPOVDEIEIGAVKIQGG-QIVDYHTLTKPSRE-ISR---KSSIEITG---ITqEMLENK-RSIEEVLPEFLGL-----E-DIIVAHNANFYRFLRLWIKkvmgLD-WE--R-PYIITLAlaksllkrsyslsvveklglgprhrhra-----            IALSDIRDSIDELRHYROFMGTIGG-            DDARVTAQVFLRFVEMMKKEG-HHh         </p>
605	<p data-bbox="163 1528 252 1602">2gtvX (104)</p> <p data-bbox="163 1850 252 1923">1ecmA (91)</p>	N	<p data-bbox="468 1480 2878 1606"> <b>TM-align:</b> aliSize=77 (resi) RMSD=1.79 (Å)            mieklaeirkkideidnkilkarw-----PW--AE--KL--IAERNSLAKDAEINQLGPIINDPEREKYTYDRIRKCKEHNVDENIGIKIFORLIEHNKALIKOYEEtLeh            -----npllaireKIsalDekLLa1LAERRELAVEGKALLSHRVRIDRERDLERLITGAAHLLAHYITRLFOLIIEDSVLTQALQO-H--         </p> <p data-bbox="468 1627 2878 1753"> <b>SARST:</b> aliSize=85 (resi) RMSD=9.85 (Å)            mie---KLAERKKIDEIDNKILkarpwack1IAERNSLAKDAEINQLGPIINDPEREKYTYDRIRKCKEHNVDENIGIKIFORLIEHNKALIKOY---eetleh            ---nplLALREKISALDEKLLA-----LAERRELAVEGKALLSHRVRIDRERDLERLITGAAHLLAHYITRLFOLIIEDSVLTQALqqh-----         </p> <p data-bbox="468 1774 2878 1900"> <b>BLAST:</b> aliSize=53 (resi) iden=32.97% (30/91) simi=58.24% (53/91)            miek---AEIRKKIDEIDNKILkarpwack1IAERNSLAKDAEINQLGPIINDPEREKYTYDRIRKCKEHNVDENIGIKIFORLIEHNKALIKOYEE-tleh            ----nplLALREKISALDEKLLA-----LLAERRELAVEGKALLSHRVRIDRERDLERLITGAAHLLAHYITRLFOLIIEDSVLTQALQO-H----         </p> <p data-bbox="468 1921 2878 2047"> <b>Proposed:</b> aliSize=91 (resi) RMSD=1.20 (Å)            mieKLAERKKIDEIDNKILkarpwAek1IAERNSLAKDAEINQLGPIINDPEREKYTYDRIRKCKEHNVDENIGIKIFORLIEHNKALIKOYEEtLeh            --NPLALREKISALDEKLLA-----L--LAERRELAVEGKALLSHRVRIDRERDLERLITGAAHLLAHYITRLFOLIIEDSVLTQALQO-H--         </p>

606	<p>2gtvX (104)</p> <hr/> <p>lecmB (95)</p>	N	27.37	<p><b>TM-align:</b> aliSize=80 (resi) RMSD=2.09 (Å)  mieklaeirrkideidnkil <b>karw</b>-----PW--AE--KL--IAERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET--EH-  -----pLlAlreKIsaLDekLLa<b>LAERRELA</b>VEVGKALLSHRPVRIDRERDRLERLITGGAHHLDAHITRFLQLIIEDSVLTQALQOHNkin</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=9.63 (Å)  mie--KLAEIRKKIDEIDNKIL<b>karwpwaekli</b>AERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET---h  ---pLLALREKISALDEKLLA<b>LAERRELA</b>VEVGKALLSHRPVRIDRERDRLERLITGGAHHLDAHITRFLQLIIEDSVLTQALQOHNkin-</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=32.63% (31/95) simi=56.84% (54/95)  mieklAEIRKKIDEIDNKIL<b>karwpwaekli</b>AERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET----eh  ----pLLALREKISALDEKLLA<b>LAERRELA</b>VEVGKALLSHRPVRIDRERDRLERLITGGAHHLDAHITRFLQLIIEDSVLTQALQOHNkin--</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=1.47 (Å)  mieKLAERKKIDEIDNKIL<b>karwpwaekli</b>AERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET--EH--  --PLALREKISALDEKLLA<b>LAERRELA</b>VEVGKALLSHRPVRIDRERDRLERLITGGAHHLDAHITRFLQLIIEDSVLTQALQOHNkin</p>
607	<p>2gtvX (104)</p> <hr/> <p>2h9dD (100)</p>	N	16.00	<p><b>TM-align:</b> aliSize=77 (resi) RMSD=2.26 (Å)  mieklaeirrkideidnkil <b>karw</b>-----PW--AE--KL--IAERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET--LEh  -----mktpedctgladireAldrIDIdI<b>VqalGRMDYVKAASRFKAS</b>---eAAIPAPERVAAMLPERARWAEENGLDAPFVEGLFAQIHWYIAEQIKYWRQrGA-</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=9.13 (Å)  mieklAEIRKKIDEIDNKIL<b>karwpwaekli</b>AERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET----leh  ----mktpedctglADIREADRIDLD<b>VQALGRMDYVKAASRFKaseaA</b>IPAPERVAAMLPERARWAEENGLDAPFVEGLFAQIHWYIAEQIKYWRQrGA---</p> <p><b>BLAST:</b> aliSize=44 (resi) iden=26.00% (26/100) simi=44.00% (44/100)  mieklAEIRKKIDEIDNKIL<b>karwpwaekli</b>AERNSLAKDVAEIKNQLGIPINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET----leh  ----mktpedctglADIREADRIDLD<b>VQA</b>-----LGRRMDYVKAASRFKaseaAIPAPERVAAMLPERARWAEENGLDAPFVEGLFAQIHWYIAEQIKYWRQrGA---</p> <p><b>Proposed:</b> aliSize=89 (resi) RMSD=1.69 (Å)  mie-----KLAEIRKKIDEIDNKIL<b>karwpWA-ekli</b>AERNSLAKDVAEIKNqIqI--PINDPEREKYTYDRIRKLCCKEHNVDENIGIKIFORLIEHNKALOKOYLEET--LEh  ---mktpedcTGLADIREADRIDLD<b>IV</b>---QA1---GRRMDYVKAASRFKaseaAIPAPERVAAMLPERARWAEENGLDAPFVEGLFAQIHWYIAEQIKYWRQrGA-</p>
608	<p>2i79A (171)</p> <hr/> <p>2fe7B (166)</p>	C	19.28	<p><b>TM-align:</b> aliSize=145 (resi) RMSD=3.16 (Å)  -----MEYELIRENEPKDAELVAFLNRVSLDTFTSIDGDGILLTSHEMEIFLNKQASSDNOITLLAFLNCKIAIVNITADqRKR--VHIGDIFIVIGKRYWNNLCSLIEEAIWQNSGiLRRLOLTVQTRNOAVHLYOKHGFVIEGSOERG<b>ayieeg</b>kfidvylmgkli-----  enlyfqGHMTIEIRPVVADAEQILAFIIEELAD-YER---ARHEVVTDVIGIRRSFAEGSPTRALMCLSECRPIYAVFYFYSYSTWLGNGIYEdLYVTPEIRGVACRRRLRELAREAVAND-CGRLEWSVLDWNQPAIDFIRSIALPQDEWVRY-----rldgealrkmae-----</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=4.71 (Å)  m-----EYELIRENEPKDAELVAFLNRVSLDTFTSIDGDGILLTSHEMEIFLNKQASSDNOITLLAFLNCKIAIVNITADQQRKR--VHIGDIFIVIGKRYWNNLCSLIEEAIWQNSGiLRRLOLTVQTRNOAVHLYOKHGFVIEGSOERG<b>ayieeg</b>kfidvylmgkli-----  -enlyfqGHMTIEIRPVVADAEQILAFIIEELADYERarHEVVTIV-----EGIRRSFAEGSPTRALMCLSECRPIYAVFYFYSYSTWLGNGIYEdLYVTPEIRGVACRRRLRELAREAVAND-CGRLEWSVLDWNQPAIDFIRSIALPQDEWVRY-----  <b>eg</b>kfidvylmgkli</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=22.29% (37/166) simi=36.75% (61/166)  meyer-----LIRENEPKDAELVAFLNRVSLDTFTSIDGDGILLTSHEMEIFLNKQASSDNOITLLAFLNCKIAIVNITADQQRKR--VHIGDIFIVIGKRYWNNLCSLIEEAIWQNSGiLRRLOLTVQTRNOAVHLYOKHGFVIEGSOERG<b>ayieeg</b>kfidvylmgkli-----  ----enlyfqGHMTIEIRPVVADAEQILAFIIEELADYERarHEVVTIV-----EGIRRSFAEGSPTRALMCLSECRPIYAVFYFYSYSTWLGNGIYEdLYVTPEIRGVACRRRLRELAREAVAND-CGRLEWSVLDWNQPAIDFIRSIALPQDEWVRY-----  <b>ayieeg</b>kfidvylmgkli</p> <p><b>Proposed:</b> aliSize=144 (resi) RMSD=2.32 (Å)  -----MEYELIRENEPKDAELVAFLNRVSLDTFTSIDGDGILLTSHEMEIFLNK-qAS-SdnQITLLAFLNCKIAIVNITADqqrkrV-----rHIGDIFIVIGKRYWNNLCSLIEEAIWQNSGiLRRLOLTVQTRNOAVHLYOKHGFVIEG--<b>saereayieeg</b>EGKFI---VY--LMg  enlyfqGHMTIEIRPVVADAEQILAFIIEELADYER---ARHEVVTDVIGIRRSFAEGSPTRALMCLSECRPIYAVFYFYS---Ystwlgr-NGIYEdLYVTPEIRGVACRRRLRELAREAVAND-CGRLEWSVLDWNQPAIDFIRSIALPQDEWVRY-----VRYRLDgealRkmae-  klia  ----</p>

609	2i9sA (97)	C	6.19	<p><b>TM-align:</b> aliSize=77 (resi) RMSD=2.84 (Å)</p> <p>gpgkpesiLMTkKgKtLMMFVTVSGNptEKeteEITSLWQGS�fnANYDQRFIVG--SDRAIFMLRDGSIYAWElKDFIVSQ-----DRCAEVTLEQmypgk-----  -----AEGDT-LI-SVDYEIfgkv--QGV--FfRKYTAEGK-KLGLVGWVQNTdqGTVOGQLOGPASKVRHMqEWLETKgspksHIDRASfHNEK-----vIvklDytdfqiVk</p> <p><b>SARST:</b> aliSize=73 (resi) RMSD=5.63 (Å)</p> <p>gpgkpesiLkmt--KKGKTLMMFVTVSGNPTEKETEEIISLWQGSIFnANYDQRFIVGSDRAIFMLRDGSIYAWElKDFIVSQDRCAEVTL-----eQmypgk  -----aeGDTLISVDYEIfgkV--KVGvFFRKYTAEGK---LGLVGWVQNTDQGTVOGQLOGPASKVRHMqEWLETKGSPKSHIdrasfhnekvIvklDytdfqiVk-----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=6.19% (6/97) simi=8.25% (8/97)</p> <p>gpgkpesiLkmtkkgkLlmmfvTVsgnpteketeEITSWQGSIFnanydvqrFivgs-----DRAlfMLRDGSIYAWElKDFIVSQDRCAEVTLEQmypgk  -----aegdtliSvdYEIfgkvqgvffRkytAegkklglvgwvqntdqgtvqglqgpaskvrhmqewleTKgspkshiDRASfHNEKVIvklDYtdfQIvK-----</p> <p><b>Proposed:</b> aliSize=80 (resi) RMSD=2.43 (Å)</p> <p>gpgkpesiLkmtKkGktLMMFVTVSGNptekETE-EITSLWQGSIFnANYDQRFIVGS--DRAIFMLRDGSIYAWElKDFIVSQ-----DRCAEVTLEQ-----QM-YPG-K-  -----AEG--D-TL-LSVDYEIfgk-----VQGVFFRKYTAEGK-K-LGLVGWVQNTdqGTVOGQLOGPASKVRHMqEWLETKgspkshIDRASfHNEKVIvklDYtdfQIvK</p>
	2acyA (98)			
610	2jevA (169)	C	15.92	<p><b>TM-align:</b> aliSize=137 (resi) RMSD=3.03 (Å)</p> <p>akFVIRPA-TAA--DCSDILRLIKELAKYEYME--OVILTEKDLEDFGfgehPFYH--CLVAEVPKehwtpeghSIVGFAMYY-FTYDP-WIGKLLYLEDFMMSDYRCFETIGSEIKNLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASDLSseeWRIFkidkeyllkmate-----  -EIKTEKkLkLdkALNELIDVYMSGYEGLE-EGgeGRDYARNYIKWCW---KkASdgFFvAKvGD-----KIVGFIVCDkDWFSkyEGRIvGAiHEVVDKkFOCKGIGRKLITCLDFLGK-YNDTIELWGEKNYGAMNLYEKFFKKVg----KSGI-----wrmikrqnl</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=6.56 (Å)</p> <p>akfvirpat-----AADCSILRLIKELAKyemeeqviltEKDLEDFGfgehpfyhCLVAEVPkEHWtpEghSIVGFAMYY-FTYDPWIG--KLLYLEDFMMSDYRCFETIGSEIKnLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASD-----  -----eikiekllkldkkaNelidvymSGyegleeyGGEGRDYARNYIKWC-----WKKASDG-----FFvAKvG--DK-----LVGFIVCDkDWFSkyEGRIvGAiHEVVDKkFOCKGIGRKLITCLDFLGKYNdtIELWGEKNYGAMNLYEKFFKKVgksgIwvrm</p> <p>-----sseeGwrlfkiDkeyllkmate  ikrqnl-----</p> <p><b>BLAST:</b> aliSize=45 (resi) iden=14.65% (23/157) simi=28.66% (45/157)</p> <p>akfvirpataadcsdilrlikelakyeemeeqviltEKdlledfgehpfyhclvaeVpkEhwtpE-----eikiekllkldkkaNelidvymSGyegleeyggeGRDYARNYIKWCWkKASdgFFvAKvG-----HSIVGFAM-----YYFTDpwiKLL-YLED-FMMSDYRCFETIGSEIKNLSOVAMRCRCSSMH  -----DKLVGFIVCDkDWFSkyEGRIvGAiHEVVDKkFOCKGIGRKLITCLDFLGKYN-DTIE</p> <p>FLVAWNEPSTNFYKRRASDLSSEEGR-LFN-----idkeyllkmate  LWGEKNYGAMNLYEKFFKKVgKSGIwvrmikrqnl-----</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=2.31 (Å)</p> <p>akFVIRPA-TAA--DCSDILRLIKELAKYE-eymEQ--V-IL-TekD--Lied-GfgehPFYH--CLVAEVPKehwtpeghSIVGFAMYY-FTYDP--WIGKLLYLEDFMMSDYRCFETIGSEIKNLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASDLS--seeGwrlfkiDKE-yllkmate  -EIKTEKkLkLdkALNELIDVYMSGYEG1---EGgeGRDYAR--Nyik--WcW---KkASdgFFvAKvGD-----KIVGFIVCDkDWFSkyEGRIvGAiHEVVDKkFOCKGIGRKLITCLDFLGK-YNDTIELWGEKNYGAMNLYEKFFKKVgks-GIwvrmikrqnlA-----</p>
	1wwzB (157)			
611	2jevA (169)	C	18.34	<p><b>TM-align:</b> aliSize=142 (resi) RMSD=3.09 (Å)</p> <p>akFVIRPATAADCSDIIRLIKELAKYEY--MEEOVILTEKDLEDFGfGfEHPPHCLVAEVPKehwtpeghSIVGFAMYYFT--YDPwIGKLLYLEDFMMSDYRCFETIGSEIKNLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASDLSseeGwrlfkiDkeyllkmate-----  --ASIRDAGVADLPGLAAYNDAGNTTainW-TP-VDLANRQAWFDaRARQGPIVASDAA-----GEVLGYASGDWRPFGF-FRGTVEH-SVYRDRDQKGLVQLQAIEIRAQGLHVVAAIESGNAASIGLHRLFEISGQ--MPQVG-----qkgrwldltfmqnl</p> <p>dptersap</p> <p><b>SARST:</b> aliSize=134 (resi) RMSD=3.86 (Å)</p> <p>akfvirpataadcsdilrlikelakye-ymEEOVILTEKDLEDFGfGfEHPPHCLVAEVPkEhwtpEghSIVGFAMYY-FTYDPWIGKLLYLEDFMMSDYRCFETIGSEIKNLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASD-----sseeGwrlfkiDkeyllkmate  ---ASIRDAGVADLPGLAAYNDAGNTTainWNETPVDLANRQAWFDaRARQGYPIVAS-----DAAE-VLGYASGDWRPFEGFRGTVEH-SVYRDRDQKGLVQLQAIEIRAQGLHVVAAIESGNAASIGLHRLFEISGmpqvqkfgwldltfmqnlDptersap-----</p> <p>lfkiDkeyllkmate  -----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=23.08% (39/169) simi=35.50% (60/169)</p> <p>akfvirpataadcsdilrlikelakye---ymEEOVILTEKDLEDFGfGfEHPPHCLVAEVPkEhwtpEghSIVGFAMYY-FTYDPWIGKLLYLEDFMMSDYRCFETIGSEIKNLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASD-----asd  -----ASIRDAGVADLPGLAAYNDAGNTTainWNETPVDLANRQAWFDARARQGYPIVAS-----SDAAGEVLGYASGDWRPFEGFRGTVEH-SVYRDRDQKGLVQLQAIEIRAQGLHVVAAIESGNAASIGLHRLFEISGmpqvqkfgwldltfmqnlDptersap-----</p> <p>sseeGwrlfkiDkeyllkmate  -----</p> <p><b>Proposed:</b> aliSize=148 (resi) RMSD=2.29 (Å)</p> <p>akFVIRPATAADCSDIIRLIKELAKYEY---MEEOVILTEKDLEDFGfGfEHPPHCLVAEVPK-ehwtpeghSIVGFAMYYFT--YDPwiGKLLYLEDFMMSDYRCFETIGSEIKNLSOVAMRCRCSSMHFLVAWNEPSTNFYKRRASDLS--seeGwrlfkiDKEYLLkMATE  --ASIRDAGVADLPGLAAYNDAGNTTainW-TP-VDLANRQAWFD--A-RarqyPIVASDAAg-----EVLYASGDWRPFGF--RGTVEH-SVYRDRDQKGLVQLQAIEIRAQGLHVVAAIESGNAASIGLHRLFEISGmpQVgkfgwldltfmqnlDPTER-SAP</p>
	2j8mB (170)			

612	<div data-bbox="163 226 252 304">2jevA (169)</div> <hr/> <div data-bbox="163 546 252 623">2j8nA (169)</div>	C	18.34	<p>TM-align: aliSize=141 (resi) RMSD=3.04 (Å)  akfvLRPATAACSDLRRLIKELAKYEY--MEEQVILTEKDLLEDGFG--EHPFHCVAEVPKehwtpeghSIVGFMYFYTY--DPWIGKLIYLeDFFVMSYRGEFIISEIKNISOVMRCRCSSHFLVAEWNEPSINFYKRRASDLSSdeGWRIFkidkeyllkmate-----  ---SRDAGVADLPGLAAYNDVAGNTTaitWNETPVDLANRQAWFDARARQGPIVASDAA-----GEVLCYASGDWRpfEG-FRGTVEH-SVYVRDQQRKQLVQLQAIIERARAQGLHVVAATIESGNAASIGLHRRLFEISGQ--MPQVG-----qkfgwrldlftmqlnl</p> <p>-----  dptrsap</p> <p>SARST: aliSize=130 (resi) RMSD=3.40 (Å)  akfvLRPATAACSDLRRLIKELAKYEY--MEEQVILTEKDLLEDGFG--EHPFHCVAEVPKehwtpeghSIVGFMYFYTY--DPWIGKLIYLeDFFVMSYRGEFIISEIKNISOVMRCRCSSHFLVAEWNEPSINFYKRRASDL-----ssee  ---SRDAGVADLPGLAAYNDVAGNTTaitWNETPVDLANRQAWFDARARQGPIVASDAA-----GEVLCYASGDWRPFEGFRGTVEH-SVYVRDQQRKQLVQLQAIIERARAQGLHVVAATIESGNAASIGLHRRLFEISgmpqvgqkfgwrldlftmqlnldptrsap-----</p> <p>gwrllkidkeyllkmate  -----</p> <p>BLAST: aliSize=60 (resi) iden=23.08% (39/169) simi=35.50% (60/169)  akfvLRPATAACSDLRRLIKELAKYEY--MEEQVILTEKDLLEDGFG--EHPFHCVAEVPKehwtpeghSIVGFMYFYTY--DPWIGKLIYLeDFFVMSYRGEFIISEIKNISOVMRCRCSSHFLVAEWNEPSINFYKRRASDL-----ssee  ---SRDAGVADLPGLAAYNDVAGNTTaitWNETPVDLANRQAWFDARARQGPIVASDAA-----GEVLCYASGDWRPFEGFRGTVEH-SVYVRDQQRKQLVQLQAIIERARAQGLHVVAATIESGNAASIGLHRRLFEISgmpqvgqkfgwrldlftmqlnldptrsap-----</p> <p>segwrllkidkeyllkmate  -----</p> <p>Proposed: aliSize=147 (resi) RMSD=2.25 (Å)  akfvLRPATAACSDLRRLIKELAKYEY--MEEQVILTEKDLLEDGFG--EHPFHCVAEVPKehwtpeghSIVGFMYFYTY--DPWIGKLIYLeDFFVMSYRGEFIISEIKNISOVMRCRCSSHFLVAEWNEPSINFYKRRASDLSSdeGWRIFkidkeyllkmate-----  ---SRDAGVADLPGLAAYNDVAGNTTaitWNETPVDLANRQAWFDARARQGPIVASDAA-----GEVLCYASGDWRpfEG-FRGTVEH-SVYVRDQQRKQLVQLQAIIERARAQGLHVVAATIESGNAASIGLHRRLFEISGmp-QVGqkfgwrldlftmqlnldptrsap-----</p>
613	<div data-bbox="163 871 252 949">2ob0A (154)</div> <hr/> <div data-bbox="163 1190 252 1268">1s3zB (145)</div>	C	11.03	<p>TM-align: aliSize=130 (resi) RMSD=2.35 (Å)  skgsrTELGDVTPHNIKQLKRINQVIFVSY--N-DKFKYKDVLEVGE-LAKLAYFNDAVAVCCRVDISQ-----NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKKNYkriepadahlqknl----  -----MDIRQMNKTHLEHWRGIRKQLWGHPPdAhLADGEEILQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFY-----rkrcc</p> <p>SARST: aliSize=126 (resi) RMSD=3.05 (Å)  skgsriELGDVTPHNIKQLKRINQVIFVSYNDFYKIV-----LEVGE-LAKLAYFNDAVAVCCRVDISQ-----NQKRLYITLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKK-----nykriepadahlqknl  -----MDIRQMNKTHLEHWRGIRKQLWGHPPdAhLAHGeelQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFyrkrcc-----</p> <p>BLAST: aliSize=62 (resi) iden=18.62% (27/145) simi=42.76% (62/145)  skgsrTELGDVTPHNIKQLKRINQVIFVSYNDFYKIV-----LEVGE-LAKLAYFNDAVAVCCRVDISQ-----NQKRLYITLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKKNYKR-iepadahlqknl  -----MDIRQMNKTHLEHWRGIRKQLWGHPPdAhLAHGeelQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFYKRCC-----</p> <p>Proposed: aliSize=132 (resi) RMSD=1.87 (Å)  skgsrTELGDVTPHNIKQLKRINQVIFVSY--N-DKFKYKDVLEVGE-LAKLAYFNDAVAVCCRVDISQ-----NQKRLYITLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKKNYkriepadahlqknl--a  -----MDIRQMNKTHLEHWRGIRKQLWGHPPdAhLADGEEILQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFYKRCC-----</p>
614	<div data-bbox="163 1522 252 1600">2ob0A (154)</div> <hr/> <div data-bbox="163 1841 252 1919">1s5kA (153)</div>	C	10.46	<p>TM-align: aliSize=135 (resi) RMSD=2.66 (Å)  ---SKSRIELGDVTPHNIKQLKRINQVIFVSY--N-DKFKYKDVLEVGE-LAKLAYFNDAVAVCCRVDISQ-----NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKKNYkriepadahlqknl----  glvPRGSHMDIRQMNKTHLEHWRGIRKQLWGHPPdAhLADGEEILQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFY-----rkrcc</p> <p>SARST: aliSize=133 (resi) RMSD=3.45 (Å)  s---KGSRIELGDVTPHNIKQLKRINQVIFVSYNDFYKIVL--EVGELAK--LAYFNDAVAVCCRVD--HSNQ---KRLYITLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKK-----nykriepadahlqknl  -glvPRGSHMDIRQMNKTHLEHWRGIRKQLWGHPPdAhLAHGeelQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFyrkrcc-----</p> <p>BLAST: aliSize=65 (resi) iden=19.08% (29/153) simi=42.76% (65/153)  s---KGSRIELGDVTPHNIKQLKRINQVIFVSYNDFYKIVL--EVGELAK--LAYFNDAVAVCCRVD--HSNQ---KRLYITLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKKNYKR-iepadahlqknl  -glvPRGSHMDIRQMNKTHLEHWRGIRKQLWGHPPdAhLAHGeelQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFYKRCC-----</p> <p>Proposed: aliSize=136 (resi) RMSD=2.00 (Å)  s---KGSRIELGDVTPHNIKQLKRINQVIFVSY--N-DKFKYKDVLEVGE-LAKLAYFNDAVAVCCRVDISQ-----NQKRLYITLGCAPYRRLIGTKLNHVLNICEKDGTFDNIYLHVQISNESASIDFYRKFGEFIIITKKnykriepadahlqknl-a  -glvPRGSHMDIRQMNKTHLEHWRGIRKQLWGHPPdAhLADGEEILQADhLASFIAMADGVAIGFADASIRhDyvngcdSSPVVFLGIFVPSFRQRCVAKQIIAAVQRWGT-NKGCRESMASDTSPEPTISQKVHQUALGFEETRVIFYKRCC-----</p>

615	<p><b>2ob0A (154)</b></p> <p><b>2vbqA (147)</b></p>	C	<p>11.56</p> <p><b>TM-align:</b> aliSize=132 (resi) RMSD=2.52 (Å)        skgSRIELGDVTPHNIKQLKRINQVIFVSY--N-DKFKYKDVLEVG-ELAKLAFYNDIIVGAVCCRVD--SQ-----NQKRLYI-TLGCAPYRRLIGTKLNHVLNICEKDgTFDNIYLHVQISNESAIIDFYRKFGEIITKKNYkriepadahv qknl----        ---SHMDIROMNKTHLEHWGRKQLWGHPDdAhLADGEEIQADhLASFIAMADGVVIGFADASIRhDYvngcdSSPVVFLGFIIVLPSFQRQVAKQIIAAVQRWGTNK-GCREMASDTSPEPTISQKVHQALGFEETERVIFY-----rkrC</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=3.53 (Å)        skgsr--TELGDVTPHNIKQLKRINQVIFVSYN--DKFYKDVLEVGELAKLA--YFNDAVAVCCRVD--HSQN----QKRLYITLGCAPYRRLIGTKLNHVLNICEKDgTFDNIYLHVQISNESAIIDFYRKFGEIITK-----nyykriepadahv qknl        -----shMDIROMNKTHLEHWGRKQLWGHPDdaHLADGEEILOADHLASFIAMADGVVIGFADASIRhDYvngcdSSPVVFLGFIIVLPSFQRQVAKQIIAAVQRWGTNKGCCREMASDTSPEPTISQKVHQALGFEETERVIFYrkrC-----</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=19.05% (28/147) simi=42.86% (63/147)        skgSRIELGDVTPHNIKQLKRINQVIFVSYNDFYK-----VLEVGELAK-LAFYNDIIVGAVCCRVD--SQ-----NQKRLYITLGCAPYRRLIGTKLNHVLNICEKDgTFDNIYLHVQISNESAIIDFYRKFGEIITKKNYKR-icepadahv qknl        ---SHMDIROMNKTHLEHWGRKQLWGHPDDAHLADGEEILOADHLASFIAMADGVVIGFADASIRhDYvngcdSSPVVFLGFIIVLPSFQRQVAKQIIAAVQRWGTNKGCCREMASDTSPEPTISQKVHQALGFEETERVIFYRKRc-----</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=2.06 (Å)        skgSRIELGDVTPHNIKQLKRINQVIFVSY--YNDKFKYKDVLE--VgeLAKLAFYNDIIVGAVCCRVD--SQ-----nQKRLYITLGCAPYRRLIGTKLNHVLNICEKDgTFDNIYLHVQISNESAIIDFYRKFGEIITkknnyykriepadaHVLQKNL-a        ---SHMDIROMNKTHLEHWGRKQLWGHPDDAHLADGEEIQadhL--ASFIAMADGVVIGFADASIRhDYvngcds-SPVVFLGFIIVLPSFQRQVAKQIIAAVQRWGTNK-GCREMASDTSPEPTISQKVHQALGFEETRV-----VIFYRKRc-</p>
616	<p><b>2pa4A (294)</b></p> <p><b>li52A (225)</b></p>	M	<p>15.11</p> <p><b>TM-align:</b> aliSize=208 (resi) RMSD=3.05 (Å)        --VKTIVVPAAGLITNPLPAtktvPKELIPVVDTPGIELIAAEAAELG-ATRLAITANKAGVLAHFERSseleetlmergktdqveiiirraADIKAVPTQdKP1GLGHAAGLAESVLDIdEDVAAMLPDDLVPPTGVMERMAOVRAEFGGSVLCVVEVSEADVSKygifeiadtkdsdvkkg        h1DVCAYPAAGFRRMQ-T-E-CPKOYSIGNQTILHSVHALLAHPPrKRVVVAISGDSRFAQLPLA-----NH-PQITVVDG-GD-ERADSVLAGLKAAG-AQWVLDHAARPCQHODDLARLLALSETSRGTGILNAPVSDTMKR-----</p> <p>mvekpA-----IEDAPS-RLAATGRYLLD-RKIFDARLI--TPGAggeLQLTADLLIdEgHPVHIHOGKRHDLGNFGGYIPCVDFGLshpvygaqlkdaikqilaheaa        -----aepgknaiAHTVDRngLWHLTPOFFPrELLHDCITAlneGAT1---TDEASALEYC--G-FHPQLVEGRADN1KVTRPEDLALFEYlTR-----</p> <p><b>SARST:</b> aliSize=207 (resi) RMSD=9.59 (Å)        vk----TVVPAAGLITNPLPAtktvPKELIPVVDTPGIELIAAEAAELG-ATRLAITANKAGVLAHFERSseleetlmerKTQDVeIIRRAAD-LIKAMPVTOQKPLGLGHVGLVESV1ddEDVAAMLPDDLVPPTGVMERMAOVRAE-----FQGSVLCVvevseadvskYGIIFEIADTKDS        --h1dvCAVPAAGFRRMQTE---CPKOYSIGNQTILHSVHALLAHPPrKRVVVAIS-----PDSRFA--QLPLNHPQITVVDGG-ERADSVLAGLKAAG--AQWVLDHAARPC--LHODDLARLLALSetsrTGILNAPV-----RDTMKRAIPGKNAT</p> <p>DVKKVGmvEKPaidapsRLAATGRYLLD-RKIFDALRR-----IPGAggeLqLtdAIDLIDEHPVHIHOGKRHDLGNFGGYIPCVDF--glshpvygaqlkdaikqilaheaa        AHTVDR---NGI-----WHLTPOFFPrELLHDCITAlneGAT1---TDEASALEYC--G-FHPQLVEGRADN1KVTRPEDLALFEYlTR-----</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=16.44% (37/225) simi=28.44% (64/225)        vktv-----VPAAGLITNPLPAtktvPKELIPVVDTPGIELIAAEAAELG-ATRLAITANKAGVLAHFERSseleetlmerKTQDVeIIRRAAD-LIKAMPVTOQKPLGLGHVGLVESV1ddEDVAAMLPDDLVPPTGVMERMAOVRAEFGGSVLCVVEVSEADVSKYGIIFEIADTKDS        ---h1dvCAVPAAGFRRMQTE---CPKOYSIGNQTILHSVHALLAHPPrKRVVVAISGDSRFAQLPLANHPQITVVDGG--DE--PADSVLAGLKAAG-AQWVLDHAARPC--LHODDLARLLALSETSRGTGILNAPVSDTMKR-----RDTMKRAIPGKNAT</p> <p>cltralnegatiideasaleyegfhpqlvegradnikvtrpedlalaefyltr-----cavevseadvskygifeiadtkdsdvkkgmvekpaidapsllaatgrylldrkifdalrriitpgaggelqLtdaidllidegHPVHIHOGKRHDLGNFGGYIPacvdfglshpvygaqlkdaikqilaheaa</p> <p>aa        --</p> <p><b>Proposed:</b> aliSize=216 (resi) RMSD=2.27 (Å)        --VKTIVVPAAGLITNPLPAtktvPKELIPVVDTPGIELIAAEAAELG-ATRLAITANKAGVLAHFERSseleetlmergktdqveiiirraADIKAVPTQdKP1GLGHAAGLAESVLDIdEDVAAMLPDDLVPPTGVMERMAOVRAEFGGSVLCVVEVSEADVSKYGIIFEIADTKDS        h1DVCAYPAAGFRRMQ-T-E-CPKOYSIGNQTILHSVHALLAHPPrKRVVVAISGDSRFAQLPLA-----NH-PQITVVDG-GD-ERADSVLAGLKAAG-AQWVLDHAARPCQHODDLARLLALSETSRGTGILNAPV-----RDTMKRAIPGK-----NAIA</p> <p>GMVEKPAidapsRLAATGRYLLD-RKIFDARLI--TPGAggeLQLTADLLIdEgHPVHIHOGKRHDLGNFGGYIPCVDFGLshpvygaqlkdaikqilaheaa        HTVDRNG-----LWHLTPOFFPrELLHDCITAlneGAT1---TDEASALEYC--G-FHPQLVEGRADN1KVTRPEDLALFEYlTR-----</p>
617	<p><b>2pa7A (135)</b></p> <p><b>lj3qa (187)</b></p>	N	<p>15.56</p> <p><b>TM-align:</b> aliSize=95 (resi) RMSD=3.04 (Å)        enkvinfkkiidsrgslvaiecnknipf-----SIKRVYVIFDTKGE-----EPRGFHAKK--KLEQVLCVNCSCRVIDD-GNIIOEITLDSPaVGLVYGFVAVWEMHDFS-SDCVMVVASDYDeTD        -----mkykepfvgkldfetgiiENAKKSVRRLsdmkyfideeawkkmveegdpvvevyvayieeQeKeGDLNfATTVLYPKvgnefFMTKGYSKIDRAEYFALKKGGMLQTPeGEARFEMEPG-TIIVVPPYWAHRTINTGdKPFIFLALYPADAG--H</p> <p>YIROQ--DNKkyiakinle-----        DYGTIaeKGS-----kivveengkvvkdnpk</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=7.13 (Å)        enkvinfkkiids-----RGSILVAIENENKNIpfSikRVYVIFDTKGE-----EPRGFHAKK--KLEQVLCVNCSCRVIDD-GNIIOEITLDSPaVGLVYGFVAVWEMHDFS-SDCVMVLA-----        -----mkykepfvgkldfetgiiENAKKSVRRLsdmkyfideeawkkmveegdpvVEVYVAYieeQeKeGDLNfATTVLYPKvgnefFMTKGYSKIDRAEYFALKKGGMLQTPeGEARFEMEPG-TIIVVPPYWAHRTINTGdKPFIFLALypadagdygtiaekgfs</p> <p>-----sdydetdyirqydnfkkyiakinle        kivveengkvvkdnpk-----</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=8.15% (11/135) simi=15.56% (21/135)        mkykepfvgkldfetgiiENAKKSVRRLsdmkyfideeawkkmveegdpvVEVYVAYieeQeKeGDLNfATTVLYPKvgnefFMTKGYSKIDRAEYFALKKGGMLQTPeGEARFEMEPG-TIIVVPPYWAHRTINTGdKPFIFLALypadagdygtiaekgfskiivveengkvvkdnpk--- fha        hkkleqvlvcngscrviiddgniiqeitldspavglygpavwhemhdfssdcvmmvlasdydetdyirqydnfkkyiakinle</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.42 (Å)        e-----NKI-----IFNIIID-----SRGSLVAIENENKNIpfSikRVYVIFDTKGE-----EPRGFHAKK--LEQVLCVNCSCRVIDDGN-IOEITLDSPaVGLVYGFVAVWEMHDFS-SDCVMVVASDY-yDetDYIROQ--D-----        -mkykepfvgkldfetgiiENAKKSVRRLsdmkyfideeawkkmveegdpVVEVYVAYieeQeKe-----GDLNfATTVLYPKvgnefFMTKGYSKIDRAEYFALKKGGMLQTPeGEARFEMEPG-TIIVVPPYWAHRTINTGdKPFIFLALYPADAG--HDYGTIaeKgfskivveengk        -----nfkkyiakinle        vvkdnPk-----</p>

618	2pa7A (135) 1j3rB (185)	N	15.56	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=3.05 (Å) enkvnfkkidsrgslvaieenknip-----FSIKRVYIYFDTKGE-----EPRGFHAKK--LEOLVCLNNGSCRVIIDGNIIOEITLDSpaVGLYVGFVAVWEMHDFS-SDCVMMVLSADYYDeTDYIR -----ykepfgvkldfetgii enakksvrrlsdmkgyfideeawkkmveegdpvvyevyaveeekEGDLNFATTVLYPKvgnefFMTKGFHAKKIDRAEYFAFKKGGMLQTPGEARFIEMEPG-TIVVPPYWARTRINTGDKPFIFLAIPADAG--HDYG</p> <p>OY-DNFkkyiakindle----- TlaEKGF-----skivveengkvvkdnpk</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=7.21 (Å) enkvnfkkids-----RGSLSVAIENKNIPESIKRVYIYFDTKGE-----EPP--RGFHA--HKKLEOLVCLNNGSCRVIIDGNIIOEITLDSpaVGLYVGFVAVWEMHDFS-SDCVMMVLA----- -----ykepfgvkldfetgii enakksvrrlsdmkgyfideeawkkmveegdpvvyEVYVIEQEEKEGDLNFATTVLYPGKVINfFmTKGFHAKKIDRAEYFAFKKGGMLQTPGEARFIEMEPGTIVVPPYWARTRINTGDKPFIFLALypadaghdtygiaekgfskivveeng -----sdydetdyirqydnfkkyiakindle kvvkdnpk</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=8.15% (11/135) simi=15.56% (21/135) -----nkvnfkkids-----RGSLSVAIENKNIPESIKRVYIYFDTKGE-----EPRGFHAKK--LEOLVCLNNGSCRVIIDGNIIOEITLDSpaVGLYVGFVAVWEMHDFS-SDCVMMVLSADYYDeTDYIR-----fhahk -----ykepfgvkldfetgii ENAKKSVRRLSMKYFIDEAWKMKVVEGDPVVEVYVIEQEEKEGDLNFATTVLYPGKVINfFmTKGFHAKKIDRAEYFAFKKGGMLQTPGEARFIEMEPGTIVVPPYWARTRINTGDKPFIFLALypadaghdtygiaekgfskivveengkvvkdnpk----- kleqvlvclngscrviiddgniqeitledspavglyvgpavwhemhdssfscvmmvlasdydetdyirqydnfkkyiakindle</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.37 (Å) e-----NKV-----INFKIID-----SRGSLVAIEN--knipfSIKRVYIYFDTKGE-----EPRGFHAKK--LEOLVCLNNGSCRVIIDGNIIOEITLDSpaVGLYVGFVAVWEMHDFS-SDCVMMVLSADY-yDetDYIROY--D----- -----ykepfgvkldfetgii ENAKKSVRRLSdmkgyfideeawkkmveegdpvvyEVYVIEQEEke-----GDLNFATTVLYPKvgnefFMTKGFHAKKIDRAEYFAFKKGGMLQTPGEARFIEMEPG-TIVVPPYWARTRINTGDKPFIFLAIPADAG--G--HDYGTIaeKgfskivveengkvv -----nfkkyiakindle kdnpk</p>
619	2pa7A (135) 1qxrA (187)	N	14.07	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=3.01 (Å) enkvnfkkidsrgslvaieenknip-----FSIKRVYIYFDTKGE-----EPRGFHAKK--LEOLVCLNNGSCRVIIDGNIIOEITLDSpaVGLYVGFVAVWEMHDFS-SDCVMMVLSADYYDeTDYIR -----mykepfgvkldfetgii egakksvrrlsdmegyfvderawkelvekedpvvyevyaveeekEGDLNFATTVLYPKvgkefFMTKGFHAKKIDRAEYFAFKKGGMLQTPEGDAKWISMEPG-TVVVPPYWARTRVNIgDgEPFIFLAIPADAG--HDY</p> <p>ROY-DNFkkyiakindle----- GTlaEKG-----fskivieengekvvdnprw</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=8.78 (Å) enkvnfkkids-----RGSLSVAIENKNIPESIKRVYIYFDTKGeEPRGFHAKK--KLEOLVCLNNGSCRVIID--DGNIOEITLdsAVGLYVGFVAVWEMHDFS-SDCVMMVLSADYYDeTDYIR----- -----mykepfgvkldfetgii egakksvrrlsdmegyfvderawkelvekedpvvyEVYVIEQEEKEGDLNFATTVLYPGKVGKEF--FMTKGFHAKKIDRAEYFAFKKGGMLQTPEGDAKWISMEPG-TVVVPPYWARTRVNIgDgEPFIFLAIPADAGHDYgtiaekgfskiv -----qydnfkkyiakindle ieengekvvdnprw</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=14.07% (19/135) simi=21.48% (29/135) enkvnfkkidsrgslvaieenknipfsikrvyvi-----DfKGEeprgFAHKKLEOLVCLNNGSCRVIID--DGNIOEITLdsAVGLYVGFVAVW----- -----mykepfgvkldfetgii egakksvrrlsdmegyfvderawkelvekedpvvyevyaveeekEGDLNFATTVLYPGKVGKEF--FMTKGFHAKKIDRAEYFAFKKGGMLQTPEGDAKWISMEPG-TVVVPPYWARTRVNIgDgEPFIFLAIPADAGHDYgtiaekgfskiv -----hemhdssfscvmmvlasdydetdyirqydnfkkyiakindle flaiypadaghdtygiaekgfskivieengekvvdnprw</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.43 (Å) e-----NKV-----INFKIID-----SRGSLVAIEN--knipfSIKRVYIYFDTKGE-----EPRGFHAKK--LEOLVCLNNGSCRVIIDGNIIOEITLDSpaVGLYVGFVAVWEMHDFS-SDCVMMVLSADY-yDetDYIROY--D----- -----mykepfgvkldfetgii EGAKKSVRRLSdmegyfvderawkelvekedpvvyEVYVIEQEEke-----GDLNFATTVLYPKvgkefFMTKGFHAKKIDRAEYFAFKKGGMLQTPEGDAKWISMEPG-TVVVPPYWARTRVNIgDgEPFIFLAIPADAG--G--HDYGTIaeKgfskivieengekv -----nfkkyiakindle vvdnprw</p>
620	2pa7A (135) 1zvfA (176)	C	10.37	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=2.84 (Å) enkvnfkkidsrgslvaieenknipfs-----IKRYYIFdTKGeEPRGFHAKKLEOLVCLNNGSCRVIIDGNI-----IOEITLDSpaVGLYVGFVAVWEMHDfSSDCVMMVLSADYYDe--TDYIROY-----D--NFkkyiakindle----- -----amfnttpinidkwkenegllkppvnnyclhkgGFTMIVG-GPN--RTDY--INP--TPEWfYQKKGSMllkVVDETdaepKFIDIINEG-DSYLLPGNPPSPV-RFADTGIIVE-QDRP-ggENDKIRWycshcrqvvhes-----elqmdl</p> <p>gtqvkaieldfendvekrctfhcktlnyarpq</p> <p><b>SARST:</b> aliSize=88 (resi) RMSD=5.71 (Å) enkvnfkkidsrgslvaieenkn-----IPFSIKRVYIYFDTKGEEPFGFAHKKLEOLVCLNNGSCRVIIDGNI---IOEITLDSpaVGLYVGFVAVWEMHDfssdcvmmvlasdydetdy----- -----amfnttpinidkwkenegllkppvnnyclhkgGFTVMIV--GPN--RTDYHINPTPEWfYQKKGSMllkVVDETdaepKFIDIINEGDSYLLPGNPPSPV---ADTVGIIVEQDRPggEndkiRWycshcrqvvheselqmdlgtqvkaieldfendve -----irqydnfkkyiakindle krctfhcktlnyarpq</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.44% (6/135) simi=6.67% (9/135) enkvnfkkidsrgslvaieenknipfsikrvyifdtkgeepfgfahkkleovlclngscrviiddg-----NIIOEITLDSpaVGLYVGFVAVWEMHDfSSDCVMMVLSADYYDe--etDYIRD-----YDNEKK -----amfnttpinidkwkenegllkppvnnyclhkggFTMIVG-GP--NEntDYHIN--PTPEWfYQKKGSMllkVVDETdaepKFIDIINEG-DSYLLPGNPPSPV-RFADTGIIVE-QDRP-ggEndkiRWycshcrqvvheselqmdlGTQVVE -----ILDDGNIIOEITLDSpaVGLYVGFVAVWEMHDfSSDCVMMVLSADYYDe--etDYIRD-----YDNEKK RWycshcrqvvheselqMDLGTQVKAIIdfendvekrctfhcktlnyarpq</p> <p><b>Proposed:</b> aliSize=95 (resi) RMSD=1.88 (Å) enkvnfkkidsrgslvaieenknipfsi-----KRYYIFdTKGeEPF-GF-AHKKLEOLVCLNNGSCRVIIDG--NIIOEITLDSpaVGLYVGFVAVWEMHDfSSDCVMMVLSADYYDe--etDYIRD-----YDNEKK -----amfnttpinidkwkenegllkppvnnyclhkggFTMIVG-GP--NEntDYHIN--PTPEWfYQKKGSMllkVVDETdaepKFIDIINEG-DSYLLPGNPPSPV-RFADTGIIVE-QDRP-ggEndkiRWycshcrqvvheselqmdlGTQVVE YAKINLE----- ALDFENDvekrctfhcktlnyarpq</p>

621	2pa7A (135)	N	13.33	<p><b>TM-align:</b> aliSize=108 (resi) RMSD=3.26 (Å) enkvinf--K...idsrgSLV--A--LE--E-----N-KNIPf-----S--IKRVYYIFdTKGEEPRGFAA...KLEOVVC...N...SCRVI...DDGN-----IIOEITLDSPaVGLYVGPA-VWEMHDFS--SDCVMMV...ASDYYEtDYIROY---DNFkky</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=13.94 (Å) enkvinfk...idsrgslva...ieenknipfsik...rvyyifdtkgeepRGFhah...KLEOVVC...N...SCRVI...DDGN...IOEITLDSPaVGLYVGPAVWEMHDFS...SDCVMMV...LAS-----</p> <p><b>BLAST:</b> aliSize=22 (resi) iden=9.63% (13/135) simi=16.30% (22/135) enkvinfk...idsrgslva...ieenknipfsik...rvyyifdtkgeepRGFhah...KLEOVVC...N...SCRVI...DDGN...IOEITLDSPaVGLYVGPAVWEMHDFS...SDCVMMV...LAS-----</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=2.52 (Å) ellkprtladlirilhelhfagdevnveevqavleayesnpaewalyAKF...QRYRYRN...LVDQ...GNgkFNLMILC-WGEGHGSSIDTDSHCFLK...L...OGNLKETF...FWPDKKSNEI-KKSERT...RENQCA...INDS...IGL...RVENV...shTEPA...SLH...Y...PPFF...T--CHAFDQrtGHk...vmt</p>
622	2pa7A (135)	N	13.33	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=3.06 (Å) enkvinfk...idsrgslva...ieenknip-----E...S...IKRVYYIFDTK...E-----EPRGFA...K...-LEO...L...C...N...SCRVI...DDGN-I...O...E...ITLDS...PaVGLYVGPAVWEMHDFS-SDCVMMV...LASDYYDeDY</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=8.54 (Å) enkvinfk...ids...mmypef...gskivieengekvvdnprw</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=14.07% (19/135) simi=21.48% (29/135) enkvinfk...idsrgslva...ieenknipfsik...rvyyifdtkgeepRGFhah...KLEOVVC...N...SCRVI...DDGN...IOEITLDS...PaVGLYVGPAVWEMHDFS...SDCVMMV...LASDYYDeDY</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.49 (Å) e...NKVI...ID...SRGSLVA...IEEN-knipfS--IKRVYYIFDTK...E-----EPRGFA...K...-LEO...L...C...N...SCRVI...DDGN-I...O...E...ITLDS...PaVGLYVGPAVWEMHDFS-SDCVMMV...LASDYYDeDY</p>
623	2pc1A (173)	C	15.86	<p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.67 (Å) nlyfqG...RLAFPNEIDOI-L...IEEARaeiaktgsdqWQkedGY-PNRNDI...DDTLN--GYAWVGI...E...L...ATYA...V...IDG...EEvYdaIyegkW...H...N...HRYLTFHR...IAISNO...FRGLAOTFLOGLIEGHK---GPDFRC...THEKNVT...OHILNK...GYOYCGK...P...LDGvrlay...k...ikek---</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=6.86 (Å) nlyfqgq...RLAFPNEIDOI...L...IEEARaeiaktgsdqWQkedGY-PNRNDI...DDTLN--GYAWVGI...E...L...ATYA...V...IDG...EEvYdaIyegkW...H...N...HRYLTFHR...IAISNO...FRGLAOTFLOGLIEGHK---GPDFRC...THEKNVT...OHILNK...GYOYCGK...P...LDGvrlay...k...ikek---</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=23.45% (34/145) simi=45.52% (66/145) nlyfqgq...irlafpneidqillieeara...E...AK...GSD...NO...E...D...Y...PNRNDI...DDTLN--GYAWVGI...E...L...ATYA...V...IDG...EEvYdaIyegkW...H...N...HRYLTFHR...IAISNO...FRGLAOTFLOGLIEGHK---GPDFRC...THEKNVT...OHILNK...GYOYCGK...P...LDGvrlay...k...ikek---</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.23 (Å) nlyfqg...RLAFPNEIDOI...L...IEEARaeiaktgsdqWQkedG--yPNRNDI...DDTLN--GYAWVGI...E...L...ATYA...V...IDG...EEvYdaIyegkW...H...N...HRYLTFHR...IAISNO...FRGLAOTFLOGLIEGHK---GPDFRC...THEKNVT...OHILNK...GYOYCGK...P...LDGvrlay...k...ikek---</p>



624	<p>2pc1A (173)</p> <hr/> <p>2d4pA (130)</p>	C	8.46	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=2.66 (Å)  nlyfqGOTRLAFPNEIDQILLIEEArAeiaktgsdqwkedgyPNRNdiDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydaiyegkwlhdNHRYLTFHRIAISnqfRgRGLAOTFLOGLIEGHK---GPDFRCDTHEKNVT-OHINKLYOY--CGKVPDgvrLAYqkikek---  -----MRFRPFTEEDLRLNRAG--K-----RPVS--LGALRFFaRTghSFLAEIGEPMGFALAQAQVWQ-----GEATTVLVTRIEGR--S-VEALRGLRAVVKSAYdagVYEVALHLDPERKEIEEALKAEGFALgpLVLAIVRL-----gsr</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=6.00 (Å)  nlyfqgq---IRLAFPNEIDQILLIEEArAeiaktgsdqwkedgyPNRNdiDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydaiyEGKwLhdnhryLTFHRIAISNOFRgrGLAOTFLOGLIEGHK---GPDFRCDTHEKNVTOHILNLGYOYCG-----kvpldgvrLAYqkikek  -----mrFRPFTEEDLRLNRAG--K-----PVSLGALRFFARTghSFLAEIGEPMGFALAQAQVWQ-----GEA-----TIVLVTRIEGRSV--EALRGLRAVVKSAYdagVYEVALHLDPERKEIEEALKAEGFALgpLVLAIVRLgsr-----</p> <p><b>BLAST:</b> aliSize=6 (resi) iden=4.62% (6/130) simi=4.62% (6/130)  nlyfqgqirlafpneidqillieeArAeiaktgsdqwkedgyPNRNdiDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydaiyegkwlhdnhryLTFHRIAISnqfRgRGLAOTFLOGLIEGHK---GPDFRCDTHEKNVT-OHINKLYOY--CGKVPDgvrLAYqkikek  -----MRFRPFTEEDLRLNRAG--K-----RPVS--LGALRFFaRTghSFLAEIGEPMGFALAQAQVWQ-----GEA-----TIVLVTRIEGRSV--EALRGLRAVVKSAYdagVYEVALHLDPERKEIEEALKAEGFALgpLVLAIVRLgsr-----</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=2.11 (Å)  nlyfqGOTRLAFPNEIDQILLIEEArAeiaktgsdqwkedgyPNRNdiDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydaiyegkwlhdNH--RYLTFHRIAISnqfRgRGLAOTFLOGLIEGHK---GPDFRCDTHEKNVTMOHINKLYOY--CGKVPDgvrLAYqkikek  -----MRFRPFTEEDLRLNRAG--K-----RPVS--LGALRFFaRTghSFLAEIGEPMGFALAQAQVWQ-----GGeATTVLVTRIEGR--S-VEALRGLRAVVKSAYdagVYEVALHLDPERKEIEEALKAEGFALgpLVLAIVRLGSR-----</p>
625	<p>2pc1A (173)</p> <hr/> <p>2vbqA (147)</p>	C	14.97	<p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.89 (Å)  nlyf-OGOTRLAFPNEIDQILLIEEArAeiaktgsdqwkedgyPNRNdiDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydaiyegkwlhdNHRYLTFHRIAISNOFRgrGLAOTFLOGLIEGHK---GPDFRCDTHEKNVT-OHINKLYOYCGVPLDgvrLAYqkikek---  -----sHMDTRQMNKTHLEHWrgLRKQLWP-----G--HPDdAHLAGEEILQAdhLASFIAMADGVAIGFADASIRHDY-V--N---G-CSSPVPVFLGIFVLPSPFRQGVAKQLIAAVQRWgTnkgCREMASDTSPEntISQKVHQAALCFEETERVITfYR-----krc</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=7.07 (Å)  nlyfqgq---IRLAFPNEIDQILLIEEArAeiaktgsDOWOKEGypnRNDIIDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydAI-----EGKwLhdnhryLTFHRIAISNOFRgrGLAOTFLOGLIEGHKGP---DFRCDTHEKNVT-OHINKLYOYCGVPLDgvrLAYqkikek  -----shmdTRQMNKTHLEHWrgLRKQLWP-----WPGHPDdAHLAGEEILQAdhLASFIAMADGVAIGFADASIRHDY-V--N---HDVngcDSSP-----VVFLEGIIFVLPSPFRQGVAKQLIAAVQRWgTnkgCREMASDTSPEntISQKVHQAALCFEETERVITfYR-----RVIYR-----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=23.13% (34/147) simi=44.90% (66/147)  nlyfqgqirlafpneidqillieeArAeiaktgsDOWOKEGypnRNDIIDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydAI-----EGKwLhdnhryLTFHRIAISNOFRgrGLAOTFLOGLIEGHKGP---DFRCDTHEKNVT-OHINKLYOYCGVPLDgvrLAYqkikek  -----shmdTRQMNKTHLEHWrgLRKQLWP-----WPGHPDdAHLAGEEILQAdhLASFIAMADGVAIGFADASIRHDY-V--N---HDVngcDSSP-----VVFLEGIIFVLPSPFRQGVAKQLIAAVQRWgTnkgCREMASDTSPEntISQKVHQAALCFEETERVITfYR-----RVIYR-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.39 (Å)  nlyfqGOTRLAFPNEIDQILLIEEArAeiaktgsdqwkedgyPNRNdiDDTLN--GY--AWVGIIDG-LATYAAVIDGHEEvydaiyegkwlhdNHRYLTFHRIAISNOFRgrGLAOTFLOGLIEGHK---GPDFRCDTHEKNVTMOHINKLYOYCGVPLDgvrLAYqkikek  -----sHMDTRQMNKTHLEHWrgLRKQLWP-----G--HPDdAHLAGEEILQAdhLASFIAMADGVAIGFADASIRHDY-V--N---G-CSSPVPVFLGIFVLPSPFRQGVAKQLIAAVQRWgTnkgCREMASDTSPEntISQKVHQAALCFEETERVITfYR-----YRRC-----</p>
626	<p>2pd7A (149)</p> <hr/> <p>2gj3B (119)</p>	N	23.53	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=2.02 (Å)  mhtlyapgy---DIMGyliqimnrPnpqvelgvp-DT--S-CALILCDLkqkDTPVYASEAFLYMTGYSNAEVLGRNCRFLQSPDgmvkpksTRKYVDSNTINTMRKAIIDRNAEVOVEVNFKKNQORFVNFITMIPVRDeTG--YRYSMGFQCE----  -----ellpeIFRQTVehAP-----qTvehApIASITDL---KANILYANRAFRRTITGYGSEVVLGKNEISLNSN-----G-TTPRLVYQALWGRLAQKPPWSGVLNRRKDKTLYLAELTVAPVNLN--EagTIYYLGMHRDtsel</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=4.90 (Å)  mhtlyapgydim---GYLIQIMNRPnpqvelgvpdtscALILCDLkqkDTPVYASEAFLYMTGYSNAEVLGRNCRFLQSPDgmvkpksTRKYVDSNTINTMRKAIIDRNAEVOVEVNFKKNQORFVNFITMIPVRDeTG--YRYSMGFQCE----e  -----ellpeIFRQTVehAP-----IASITDL---KANILYANRAFRRTITGYGSEVVLGKNEISLNSN-----SNGTTPRLVYQALWGRLAQKPPWSGVLNRRKDKTLYLAELTVAPVNLN--EagTIYYLGMHRDtsel</p> <p><b>BLAST:</b> aliSize=58 (resi) iden=30.25% (36/119) simi=48.74% (58/119)  mhtlyapgydimgyliqimnrPnpqvelgvpdtscALILCDLkqkDTPVYASEAFLYMTGYSNAEVLGRNCRFLQSPDgmvkpksTRKYVDSNTINTMRKAIIDRNAEVOVEVNFKKNQORFVNFITMIPVRDeTG--YRYSMGFQCE----fqce  -----ellpeifrgtVEHAP-----IASITDL---KANILYANRAFRRTITGYGSEVVLGKNEISLNSN-----G-TTPRLVYQALWGRLAQKPPWSGVLNRRKDKTLYLAELTVAPVNLN--EagTIYYLGMHRDtsel</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.52 (Å)  mhtlyapgyDIMGYLIQIMNRPnpqvelgvpdtscALILCDLkqkDTPVYASEAFLYMTGYSNAEVLGRNCRFLQSPDgmvkpksTRKYVDSNTINTMRKAIIDRNAEVOVEVNFKKNQORFVNFITMIPVRDeTG--YRYSMGFQCE----  -----ELLPEIFRQTVehAP-----IASITDL---KANILYANRAFRRTITGYGSEVVLGKNEISLNSN-----G-TTPRLVYQALWGRLAQKPPWSGVLNRRKDKTLYLAELTVAPVNLN--EagTIYYLGMHRDtsel</p>

627	<p>2pd7A (149)</p> <p>2z6cA (121)</p>	N	30.58	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.77 (Å)  mhtlyapggymingyliqimnrpnqpvelgpvdt-----SCALILCLKQKTPITVYASEAFlyMTGYSNAEVLGRNCRFLQSPdgmvkpkstrKYVDSNTINTMRKAI DRNAEVQVEVVNFKNQQRVNFLLMI PVRDET EYRYSMCFQC-----  -----vsedlkda lsfqqt fVVSATKPYPI MYASAGFNMTGYTSKEVVGRCRFLQ-----SGTDAELAKI RETLAAGNNYCGRILNYKDKTSEWNLTIAP IKDESKVLKFIGMVevskht</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=9.23 (Å)  mhtlyapggyming--YLQIMNRpnqpVELGPVdtscAl ILCLKQKTPITVYASEAFlyMTGYSNAEVLGRNCRFLQSPDgmvkpkstrkyVDSNTINTMRKAI DRNAEVQVEVVNFKNQQRVNFLLMI PVRDET EYRYSMCFQC-----e  -----vsEDLKDAL S-----TFQQT F-----VVSATKPYPI MYASAGFNMTGYTSKEVVGRCRFLQSGS-----TDAELAKI RETLAAGNNYCGRILNYKDKTSEWNLTIAP IKDESKVLKFIGMVevskht-</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=33.06% (40/121) simi=52.07% (63/121)  mhtlyapggymingyliqimnrpnqpvelgpvdtscAl-----ILCLKQKTPITVYASEAFlyMTGYSNAEVLGRNCRFLQSPdgmvkpkstrkyVDSNTINTMRKAI DRNAEVQVEVVNFKNQQRVNFLLMI PVRDET EYRYSMCFQC-----  -----vsedlkda lsfqqt fVVSATKPYPI MYASAGFNMTGYTSKEVVGRCRFLQSGS-----TDAELAKI RETLAAGNNYCGRILNYKDKTSEWNLTIAP IKDESKVLKFIGMVevskht</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.57 (Å)  mhtlyapggYdIMGYLQIMnRpnPqVELgpvdtscALILCLKQKTPITVYASEAFlyMTGYSNAEVLGRNCRFLQSPdgmvkpkstrKYVDSNTINTMRKAI DRNAEVQVEVVNFKNQQRVNFLLMI PVRDET EYRYSMCFQC-----  -----V-SEDLKDALS-T--F-QQ-----TFVVSATKPYPI MYASAGFNMTGYTSKEVVGRCRFLQSGS-----SGTDAELAKI RETLAAGNNYCGRILNYKDKTSEWNLTIAP IKDESKVLKFIGMVevskht</p>
628	<p>2pieA (132)</p> <p>lj4kA (158)</p>	C	15.15	<p><b>TM-align:</b> aliSize=109 (resi) RMSD=2.71 (Å)  gahMagrSWCRRVGM--SAGW LLEDG-C-EVTVGRGFGVTYOLVSKicplMI SRNHCVLKNPE-----GOWTMDNkSLGVLNRARLEPLRVYSIHOGDYIQLGVPLENKENAEYEYEVT EEDwetivpcls pkn-----  --GN--GRFLT KPLPDSiIQESIEIQQVnPPFiGRSEDCNCKIEDNRLSRVHCFIFKKRHavgksmyespaqgDDI WYCHTGT VSYLNNRMIQGTKFLLQDGEIKI IWDKNNK-FV-IGFKVEIND-----t g l f n e g l g m l q e q r v l k q t a e k d l v k k l</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=13.81 (Å)  gahmaggr-----SWCRRVGM SAGW LLEDG--CEVTVGRGFGVTYOLVSKicplMI SRNHCVLKNPEGOWTI DNKSLN VVWLNRRARLEP--LRVYSIHOGDYIQLGVPLENKENAEYEY-----EVT EEDwetivpcls pkn-----  -----gngrfLTLKPLPDSiIQESIEIQQgVnPPFiGRSEDCNCKIEDNRLSRVHCFIFKKRHAVGKSYESPAGLDDI WYCHTgtN VSYLNNRMIQGTKFLLQDGEIKI IWDknnkfVIGFKVEINDt g l f n e g l g m l q e q r v l k q t a e k d l v k k l-----</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=17.42% (23/132) simi=37.88% (50/132)  gahmaggrswclrrvgsagwl-----LLEDGCYIVT--RG--EVTYOLVSKICPLMISRNVHCVL--KNPEGOWTMDN--KSLNGV-----LNRRARLEPLRVYSIHOGDYIQLGVPLENKENAEYEYVTE-----edwetivpcls pkn  -----gngrfLTLKPLPDSiIQESIEIQQVnPPFiGRSEDCNCKIEDNRLSRVHCFIFKHAVGK-SMYESpaqGLDDI WychtgtNvsyLNNRMIQGTKFLLQDGEIKI IWDKNNK-FVIGFKVEINDt g l f n e g l g m l q e q r v l k q t a e k d l v k k l-----</p> <p>lspkn  -----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=2.01 (Å)  gahMagr--rSWCRRVGM--msAGW LLEDG-C-EVTVGRGFGVTYOLVSKicPIMI SRNHCVLKNPE-----GOWTMDNkSLGVLNRARLEPLRVYSIHOGDYIQLGVPLENKENAEYEYVTE-----edWETIYPCls pkn  ---G--nGr-FLT KPLPDSiIQESIEIQQVnPPFiGRSEDCNCKIEDNRLSRVHCFIFKKRHavgksmyespaqgDDI WYCHTGT VSYLNNRMIQGTKFLLQDGEIKI IWDKNNK--FVIGFKVEINDt g l f n e g l g m l q e q r v l k q t a e EEDL VKK-----</p>
629	<p>2pr1A (152)</p> <p>lqsmA (150)</p>	C	9.33	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=2.90 (Å)  M-TKVERLLI--YKTLLEEFKFKFY-----GIQELSMLEELQDNIiENDSTSpfyGIYFG--DKLVARMSLYOVNGKSNpyfdnRODYLELWKLELPGYONRYGRALVEFAKS-FK---MPTRTNPR-MK--SAEFWNMNFKTVEYdmarDKGedplIwhpdmr----  DnITRFVTENdkEGWQRLWkSYQdfyevSFPDDLDDFN-----G--rFLdpnikMWA AVAVESSSEK IIGMINFFNHMTT-----WDFKIKIYINDIY DENSRVKGAGKLIQFVYDeADKlgTPSVYWCTDeSNHRAQLLYVVGKAPK I-----LYK-----rkgy</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=8.84 (Å)  mtkverllin-----YKTLLEEFKFKFYGIQELSMLEELQDNIiENDSTSpfyGIYFG--DKLVARMSLYOVNGKSNpyfdnRODYLELWKLELPGYONRYGRALVEFAKSPFKM-PTRTNPRMKS AEFWNMNFKTVEYdmarDKgeDPLIWHPD--mr  -----dnitrvftendkegwqrlwSYQDFYEV-SFPDDLDDFNFRFLDP-NIKMWA--AVAVESSSEK IIGMINFFNHMTT-----FKDKIYINDIY DENSRVKGAGKLIQFVYDEADKLGTPSVYWCTDESNHRAQLLYVVGKAPK I-----KLYKRKGY---</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.00% (6/150) simi=6.00% (9/150)  mtkverllinyktleefkfkfygiqelsmleelqdni iendstspfygiyfgdklvarmslyqvnngksnpyfdnrqdyelwklevlpgyqnrgralvefaksfkmpirtnprmkSAEFwnkmnfk-----YKDMARDKGEDPLIWHPDM-----  -----dnitrvftendkegwqrlwSYQDFYEV-SFPDDLDDFNFRFLDP-NIKMWA--AVAVESSSEK IIGMINFFNHMTT-----WDFKIKIYINDIY DENSRVKGAGKLIQFVYDeADKlgTPSVYWCTDeSNHRAQLLYVVGKAPK I-----LYKRKGY-----</p> <p>kiigminffnhmttwdfkdkiyindlydensrvkgagkLIQFVYdeADKlgTPSVYWCTdeSNHRAQLLYVVGKAPK Ilykrkgy-</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=2.24 (Å)  M-TKVERLLIYKTLLEEFKFKFY-----GIQELSMLEELQDNIiENDSTSpfyGIYFG--DKLVARMSLYOVNGKSNpyfdnRODYLELWKLELPGYONRYGRALVEFAKS-FK---MPTRTNPR-MK--SAEFWNMNFKTVEYdmarDKgedplIWHPDM--drc  DnITRFVTEN--DKEGWQRLWkSYQdfyevsFP--DDLDD-Fnfr-----FLdpnikMWA AVAVESSSEK IIGMINFFNHMTT-----WDFKIKIYINDIY DENSRVKGAGKLIQFVYDeADKlgTPSVYWCTDeSNHRAQLLYVVGKAPK I-----LYKRKGYa-----</p>

630	<p>2pr1A (152)</p> <hr/> <p>1qsmB (149)</p>	C	10.07	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=2.91 (Å)  MTKVERLLIN-YKTLLEEFKFKKEY-GIQELSMLEELQDNIEND-STSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---MPTRTNPR-MK-SAEFWNMNFKTVKYdmarDKGedpliwhpmdr----  NITVRFVTENDKEGWORLWQSYQDFYEVSPDDLDLDFNF-----G--rFLDpnikMWAAVAVESSSEKILGMINFFNHMTT-----WDFKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYK-----rkg</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=6.44 (Å)  mtkverllin-----YKTLLEEFKFKKEYGQELSMLEELQDNIENDSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---MPTRTNPRMKSaeFWNM-----nfktvkydmarkgedpl  -----nitvrfvtendkegwqrLWKSQDFYEVSPDDLDLDFNFGRFLDPN-----IKMWAAVAVESSSEKILGMINFFNHMTT-----FKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSN---HRAQLlyvkvgypkiiylkrkgy-----</p> <p>iwhpmdr  -----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=4.03% (6/149) simi=6.04% (9/149)  mtkverllinyktleefkfkkeygiqelsmleelqdniendstspfygiyfgdklvarmslyqvnngksnpyfdnrqylelwklevlpgyqrgyralvefaksfkmpirtnprksaeFWNMnfk-----KYDMARDKGEDPLIHPDMD-----  -----nitvrfvtendkegwqrlWKSQDFYEVSPDDLDLDFNFGRFLDPN-----IKMWAAVAVESSSEKILGMINFFNHMTT-----WDFKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYK-----rkg</p> <p>-----r  iigminffnhmttwdfkdkiiyndlyvdensrvkgaggkLIQFVYDEADKlgtpsvywctdesnhraqlllyvkvgypkiiylkrkgy-</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=2.41 (Å)  MTKVERLLIN-YKTLLEEFKFKKEY-GIQELSMLEELQDNIENDSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---MPTRTNPRM-K-SAEFWNMNFKTVKYdmarkgedPLIHPDMD-drc  NITVRFVTENDKEGWORLWQSYQDFYEVSPDDLDLDFNF-----FLDpnikMWAAVAVESSSEKILGMINFFNHMTT-----WDFKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYKRGY-----</p>
631	<p>2pr1A (152)</p> <hr/> <p>1qsmD (152)</p>	C	9.21	<p><b>TM-align:</b> aliSize=123 (resi) RMSD=2.92 (Å)  ---MTKVERLLIN-YKTLLEEFKFKKEY-GIQELSMLEELQDNIEND-STSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---MPTRTNPR--MK-SAEFWNMNFKTVKYdmarDKGedpliwhpmdr----  sedNITVRFVTENDKEGWORLWQSYQDFYEVSPDDLDLDFNF-----G--rFLDpnikMWAAVAVESSSEKILGMINFFNHMTT-----WDFKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYK-----rkg</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=8.76 (Å)  mtkverllin-----YKTLLEEFKFKKEYGQELSMLEELQDNIENDSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---YGRALVEFAKSFKM-PIRTNPRMKSaeFWNMNFKTVKYdmarkgedPLIHPDMD-mdr  -----sednitvrfvtendkegwqrlWKSQDFYEVSPDDLDLDFNFGRFLDPN-----IKMWAAVAVESSSEKILGMINFFNHMTT-----KIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYKRGY-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=3.95% (6/152) simi=5.92% (9/152)  mtkverllinyktleefkfkkeygiqelsmleelqdniendstspfygiyfgdklvarmslyqvnngksnpyfdnrqylelwklevlpgyqrgyralvefaksfkmpirtnprksaeFWNMnfk-----KYDMARDKGEDPLIHPDMD-----  -----sednitvrfvtendkegwqrlWKSQDFYEVSPDDLDLDFNFGRFLDPN-----IKMWAAVAVESSSEKILGMINFFNHMTT-----WDFKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYKRGY-----</p> <p>-----r  sekiigminffnhmttwdfkdkiiyndlyvdensrvkgaggkLIQFVYDEADKlgtpsvywctdesnhraqlllyvkvgypkiiylkrkgy-</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=2.18 (Å)  ---MTKVERLLIN-YKTLLEEFKFKKEY-GIQELSMLEELQDNIENDSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---MPTRTNPR-MK-SAEFWNMNFKTVKYdmarkgedPLIHPDMD-dmdrc  sedNITVRFVTENDKEGWORLWQSYQDFYEVSPDDLDLDFNF-----G--rFLDpnikMWAAVAVESSSEKILGMINFFNHMTT-----WDFKIKIYINDIYDENSRVKAGGKLIQFVYDEADKlgtPSVYWCTDeSNhrAQLLYVVGYPKAPKII-----LYKRGY-----</p>
632	<p>2pr1A (152)</p> <hr/> <p>1s3zB (145)</p>	C	8.97	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=2.94 (Å)  mTKVERLLIN-YKTLLEEFKFKKEY-GIQELSMLEELQDNIEND-STSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---M-PIRTNPR--MKS-AEFWNMNFKTVKYdmarDKGedpliwhpmdr----  -MDIRQMNKThLEHWRGLRQLWPGHPDDAHLADG-----eILQadhLASFAMADGVAIGFADASIRHD-YVNGCD-SSPVVFLGIFVLPFRQGVAKQIIAAVQRwGTnkgCrEMASDTSpeNTIsQKVHqALGHEETE-----VIFY-----rkr</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=7.28 (Å)  mtkverllin-----YKTLLEEFKFKKEYGQELSMLEELQDNIENDSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---SFKM-PIRTNPRMKSaeFWNM-----MNFKTVKYdmarkgedPLIHPDMD-dmdrc  -----mdirqmknkthLEHWRGLRQLWPGHPDDAHLADG-----LQAHLA-SFAMADGVAIGFADASIRHD-YVNGCDSSPVVFLGIFVLPFRQGVAKQIIAAVQRwGTnkgCrEMASDTSpeNTIsQKVHqALGHEETE-----RVIFYRKRc-----</p> <p><b>BLAST:</b> aliSize=10 (resi) iden=3.45% (5/145) simi=6.90% (10/145)  mtkverllinyktleefkfkkeygiqelsmleelqdniendstspfygiyfgdklvarmslyqvnngksnpyfdnrqylelwklevlpgyqrgyralvefaksfkmpirtnprksaeFWNMnfk-----KYDMARDKGEDPLIHPDMD-----  -----mdirqmknkthLEHWRGLRQLWPGHPDDAHLADG-----LQAHLA-SFAMADGVAIGFADASIRHD-YVNGCDSSPVVFLGIFVLPFRQGVAKQIIAAVQRwGTnkgCrEMASDTSpeNTIsQKVHqALGHEETE-----RVIFYRKRc-----</p> <p>-----qrgyralvefaksfkmpirtnprksaeFWNMnfk-----KYDMARDKGEDPLIHPDMD-----  asdtspentisqkvhqaLgfeeteRVIFYRKRc</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=2.28 (Å)  mTKVERLLIN-YKTLLEEFKFKKEY-GIQELSMLEELQDNIENDSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNR-ODYLELWKEVLPGYONRCYGRAVEFAKS-FK---M-PIRTNPR--MKS-AEFWNMNFKTVKYdmarkgedPLIHPDMD-dmdrc  -MDIRQMNKThLEHWRGLRQLWPGHPDDAHLADG-----eILQadhLASFAMADGVAIGFADASIRHD-YVNGCD-SSPVVFLGIFVLPFRQGVAKQIIAAVQRwGTnkgCrEMASDTSpeNTIsQKVHqALGHEETE-----RVIFYRKRc-----</p>

633	<p>2pr1A (152)</p> <p>1s5kA (153)</p>	C	8.55	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=3.05 (Å)  -----M--TKVERLLINyKTLLEEFKKF--KEYG--IOELSMLEELqdniieEnd-ST---SPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPR--MKS-AEFWNKMNFKTKYdmarDKGEDpliwhpdmr----  glvprGshMDIROMNKT--HLEHWRLRkQLWpGHPDDAHLADG-----E--eILqadhLASFIAMADGVAIGFADASIRHD-YVNGC--SSPVVFEGIFVLPSPFRQGVAKQIAAVQRWGTnkgCrEMASDTSpeNTIsQKVHQAALGFEETFR-----VIFY-----rkrC</p> <p><b>SARST:</b> aliSize=129 (resi) RMSD=7.73 (Å)  mtk-----VERLLINyKTLLEEFKKF--KEYG--IOELSMLEELqdniieEnd-ST---SPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPR--MKS-AEFWNKMNFKTKYdmarDKGEDPLIWHP-----dmdr  -----glvprgshMDIROMNKT--HLEHWRLRkQLWpGHPDDAHLADG-----E--LQAHLA-SFIAMADGVAIGFADASIRHDYVNGC-DSSPVVFEGIFVLPSPFRQGVAKQIAAVQRWGTNKGCrEMASDTSPENTISQKV-----HQALGFEETFRVIFYrkrC----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=5.26% (8/152) simi=9.21% (14/152)  mtkverllinyktleefkkfkeygiqelsmleelqdniieendstspfygiyfgdklvarmslyqvnqgknsnp-----YFDNRD---DYELWKL---LEVLPGY-----  -----glvprgsHMDIROMNKT--HLEHWRLRkQLWpGHPDDAHLADG-----E--eILqadhLASFIAMADGVAIGFADASIRHDYVNGCDSSPVVFEGIFVLPSPFRQGVAKQIAAVQRWGTNKGCrEMASDTSPENTISQKVHQAALGFEETFRVIFYrkrC-----  -----qnrqygralvefaksfkmpirtnprmkSAEFWNKMNFKTKYdmarDKGEDPLIWHPdmr  masdtspentisqkvhqlgfeetFRVIFYrkrC-----</p> <p><b>Proposed:</b> aliSize=125 (resi) RMSD=2.28 (Å)  -----M--TKVERLLINyKTLLEEFKKF--KEYG--IOELSMLEELqdniieEndST---SPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPR--MKS-AEFWNKMNFKTKYdmarDKGEDPLIWHPD-mdrC  glvprGshMDIROMNKT--HLEHWRLRkQLWpGHPDDAHLADG-----E--eILqadhLASFIAMADGVAIGFADASIRHD-YVNGC--SSPVVFEGIFVLPSPFRQGVAKQIAAVQRWGTnkgCrEMASDTSpeNTIsQKVHQAALGFEETFR-----RVIYRKRCC-----</p>
634	<p>2pr1A (152)</p> <p>1ufhA (155)</p>	C	5.26	<p><b>TM-align:</b> aliSize=116 (resi) RMSD=3.31 (Å)  MTKVERLLINyKTLLEEF--KKF--KEY-----GI--OELSMLEELqdniieEnds--TSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPRM--K--SAEFWNKMNFKTKYdmarDKGEDpliwhpdmr----  TIMLTPMQ-T--EFRSYITYTtkHYAeekvkgatwlpedaqllSkqvFTDLL-PRG-----L---tpHHHLWLSKLnEKDILGWLWIHAEPHP-----QEAIFYDFGLYEPYRGKGYAKQALAAALDQaARsmgiRKLShVFAhNqtARKLYEQTGFOETI-D-----V-VM-----skkl</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=8.25 (Å)  mtkverllin-----KTLLEEFKK--FKFYGIYELSMLEELODNIIEndSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPRM--K--SAEFWNKMNFKTKYdmarDKGEDPLIWHPD-----  -----timltpmqteefrsyltyttkhYAEKVKAGtWLP--DAQLLSKQVFTDLL-PRGLEIPHHHLWLSKLnEKDILGWLWIHAEPHP-----AEPEHPQEAIFYD-FGLYEPYRGKGYAKQALAAALDQaARSMGIrKLShVFAHNQTARKLYeqTGFQETDVVmskkl-----</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=2.63% (4/152) simi=5.26% (8/152)  mtkverllinyktleefkkf-----KEYGTOELSM-----leelqdniieendst  -----timltpmqteefrsyltyttkhyaekvkgatwlpedaqllskqvftdllprgletphhhlwslklnekdivgwlihaepHPqeaifydfglyepyrkgqyakaalaaaldqaarSMGIrKLShVFAHNqtarklyeqtGFQETDVVmskkl-----  pfygiyfgdklvarmslyqvnqgknsnpfdnrqylelwklevlpgyqnrqygralvefaksfkmpirtnprmkSAEFWNKMNFKTKYdmarDKGEDpliwhpdmr</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.42 (Å)  MTKVERLLINyKTLLEEF--KKF--KEY-----YGIQEL--S-MleelqdniieendSTSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPRM--K--SAEFWNKMNFKTKYdmarDKGEDPLIWHP  TIMLTPMQ-T--EFRSYITYTtkHYAeekvkgatwlpedaqllSkqvFTDlPrG-----LEtphhHLWLSKLnEKDILGWLWIHAEPHP-----QEAIFYDFGLYEPYRGKGYAKQALAAALDQaARsmgiRKLShVFAHNqtARKLYEQTGFOETI-----DVVMSKkl  Dmdrc  L----</p>
635	<p>2pr1A (152)</p> <p>1z4eA (150)</p>	C	11.33	<p><b>TM-align:</b> aliSize=122 (resi) RMSD=2.78 (Å)  MTKVERLLINyKTLLEEFKKF--K--E--YGIQ-----EELSMLEELqdniieEnd--ST---SPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPRM--K--SAEFWNKMNFKTKYdmarDKGEDpliwhpdmr----  HVTIREATEG--DLEQMVHMLADVDLGrkrRER-yekplPVSIVRAF-----K--eiKkdknNELIVACNDEEIVGMLOVTFTPYL--T--YQGSWRATIEGVRTHSAARGQIISQLVCAIERakERGCHLIQLTtdkqRpdALRFYEQLGFKASHE-----G-LK-----mhf</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=5.49 (Å)  mtkverllin-----YKTLLEEFKKFKE-----YGIQEL--S-MleelqdniieendstspFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPRM--K--SAEFWNKMNFKTKYdmarDKGEDPLIWHPD-----  -----hvtireategdLEQMVHMLADVDLGrkrRER-yekplPVSIVRAF--K--eiKkdknNELIVACNDEEIVGMLOVTFTPYL--T--YQGSWRATIEGVRTHSAARGQIISQLVCAIERakERGCHLIQLTtdkqRpdALRFYEQLGFKASHEgklmhf-----</p> <p><b>BLAST:</b> aliSize=14 (resi) iden=5.33% (8/150) simi=9.33% (14/150)  mtkverllinyktleefkkfkeygiqelsmleelqdniieendstspfygiyfgdklvarmslyqvnqgknsnpfdnrqylelwklevlpgyqnrqygralvefaksfkmpirtnprmkSAEFWNKMNFKTKYdmarDKGEDPLIWHPD-----  -----hvtireategdLEQMVHMLADVDLGrkrRER-yekplPVSIVRAF--K--eiKkdknNELIVACNDEEIVGMLOVTFTPYL--T--YQGSWRATIEGVRTHSAARGQIISQLVCAIERakERGCHLIQLTtdkqRpdALRFYEQLGFKASHEgklmhf-----  -----mpirtnprmkSAEFWNKMNFKTKYdmarDKGEDPLIWHPdmr  cwaierakergchliqlttdkqRpdALRFYEQLGFKASHEgklmhf-----</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=1.87 (Å)  MTKVERLLINyKTLLEEFKKF--K--E--Y-----YGIQEL--S-MleelqdniieendstSPFYGIYFGDKLVARMSLYOVNGKSNPYFDNRDYELWKLLEVLPGYONRGYGRALVEFAKS-FK---M-PTRTNPRM--K--SAEFWNKMNFKTKYdmarDKGEDPLIWHPDmdrc  HVTIREATEG--DLEQMVHMLADVDLGrkrRER-yekplPVSIVRAF--K--eiKkdknNELIVACNDEEIVGMLOVTFTPYL--T--YQGSWRATIEGVRTHSAARGQIISQLVCAIERakERGCHLIQLTtdkqRpdALRFYEQLGFKASHE-----HEGKMHF-----</p>

636	C	10.53	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=3.14 (Å)  MTKVERLLIN-YKT-EEFKFKF--YGIqELSMLEE-qdNiin-DST---SPFYGIYFG-----DKLVARMSLYOVNGKsnpyfdNRODYIEWKLELPGYONRYRALVEFAKS-FK---M-PIRTNPR-MK--SAEWNKMNFKTV--KYDmarDKGEDpliwhpmdr-----  KFVIRPATAAdCSDiRLIKELAkYymEEQ-VILTEKD1--L--dGFgehpfYHCLVAEVPkehwtpegHSIVGFAMYFTYDP-----WIGKLYEDFFMSDRGFGIASEILKNSQvAMrcrCsSMHFLVAeWNePSINYKRRGASDLsEEG---WRLF-----kidkeyllkmat</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=7.60 (Å)  mtkverllin-----YKTL-EEFKFKF-----EYGIOEISMLEEODNIENDSTSpfYGIYFG--DKL-----VARMSLYOVNGKsnpyfdnRODYIEWKLELPGYONRYRALVEFAKSFKM-PIRTNPRMKSAAEFWNKMNFKTVKYDMARDKGEDPLIWH-----  -----kfvirpataadcsdiRLIKELAYEYmeeqVILTEKD1LE---DGFGEHPFYHC--LVAEVPkeHWTpeghsiVGFAMYFTYDPW-----IGKLYEDFFMSDRGFGIigseILKNISQVMRCRCsSMHFLVAEWNepsINYKRRGASD---LSSSEGWRLFkIDkeyllk</p> <p>---pdmdr  mat-----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=21.05% (32/152) simi=39.47% (60/152)  mtkverllinyktleefkfkfkeyg-----OELSMLELODNI--NISTSPFYIY-IGDKVARM--SLYOVNKS---NPYFDNRODYI-EWKLE---VLPGYONRYRALVEFAKSFKPIR-TNPRMKSAAEFWNKMNFKTV--MNF--KTVKYDMARDKG-----  -----kfvirpataadcsdiRLIKELAKYymEEQVILTEKD1LEDGFGEHPFYHCLVAEVPkeHWTPEGHsiVGFAMYFTYDPWIGKLYEDFFMSDRGFGIASEILKNSQVAMRCRCsSMHFLVAEWNepsINYKRRGASDLSSSEGWRLFkIDkeyllkmat</p> <p>---edpliwhpmdr  at-----</p> <p><b>Proposed:</b> aliSize=129 (resi) RMSD=2.47 (Å)  MTKVERLLI--NYKT-EEFKFKF--YGIqELSMLEE-qdNiin-ndST---SPFYGIYFG---G---DKLVARMSLYOVNGKsnpyfdNRODYIEWKLELPGYONRYRALVEFAKS-FK---M-PIRTNPR-MK--SAEWNKMNFKTV--KYDmarDKGEDPLIWHPMDR-----c  KFVIRPATAAdCSDiRLIKELAkYymeeq-V---ILTEKD1-----d--GFgehpfYHCLVAEVPkehwtpegHSIVGFAMYFTYDP-----WIGKLYEDFFMSDRGFGIASEILKNSQvAMrcrCsSMHFLVAeWNePSINYKRRGASDLsEEG---GWRLFkIDKEYLLkmat</p>
637	C	10.53	<p><b>TM-align:</b> aliSize=126 (resi) RMSD=3.14 (Å)  MTKVERLLIN-YKT-EEFKFKF--YGIqELSMLEE-qdNiin-DS---T-SPFYGIYFG-----DKLVARMSLYOVNGKsnpyfdNRODYIEWKLELPGYONRYRALVEFAKSF-K---M-PIRTNPR--MK--SAEWNKMNFKTV--KYDmarDKGEDpliwhpmdr-----  KFVIRPATAAdCSDiRLIKELAkYymEEQ-VILTEKD1--L--dGFgehpfYHCLVAEVPkehwtpegHSIVGFAMYFTYDP-----WIGKLYEDFFMSDRGFGIASEILKNSQvAMrcrCsSMHFLVAeWNePSINYKRRGASDLsEEG---WRLF-----kidkeyllk</p> <p>----  matee</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=6.77 (Å)  mtkverllin-----YKTL-EEFKFKFKEYG---IOEISMLEEODNIENDSTSpfYGIYFG--DKL-----VARMSLYOVNGKsnpyfdnRODYIEWKLELPGYONRYRALVEFAKS----FKM-PIRTNPRMKSAAEFWNKMNFKTVKYDMARDKGEDPLIWH-----  -----kfvirpataadcsdiRLIKELAYEYMEEqvILTEKD1L---EDGFGEHPFYHC--LVAEVPkeHWTpeghsiVGFAMYFTYDPW-----IGKLYEDFFMSDRGFGIASEILKNSQvAMRCRCsSMHFLVAEWNepsINYKRRGASD---LSSSEGWRLFkIDkeyllk</p> <p>----hpmdr  matee-----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=21.05% (32/152) simi=39.47% (60/152)  mtkverllinyktleefkfkfkeyg-----OELSMLELODNI--NISTSPFYIY-IGDKVARM--SLYOVNKS---NPYFDNRODYI-EWKLE---VLPGYONRYRALVEFAKSFKPIR-TNPRMKSAAEFWNKMNFKTV--MNF--KTVKYDMARDKG-----  -----kfvirpataadcsdiRLIKELAKYymEEQVILTEKD1LEDGFGEHPFYHCLVAEVPkeHWTPEGHsiVGFAMYFTYDPWIGKLYEDFFMSDRGFGIASEILKNSQVAMRCRCsSMHFLVAEWNepsINYKRRGASDLSSSEGWRLFkIDkeyllkmat</p> <p>---edpliwhpmdr  atee-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.63 (Å)  MTKVERLLI--NYKT-EEFKFKF--YGIqELSMLEE-qdNiin-ndST---SPFYGIYFG-----DKLVARMSLYOVNGKsnpyfdNRODYIEWKLELPGYONRYRALVEFAKS-FK---M-PIRTNPR-MK--SAEWNKMNFKTV--KYDmarDKGEDPLIWH---H-PMDR---c  KFVIRPATAAdCSDiRLIKELAkYymee-QV---ILTEKD1-----d--GFgehpfYHCLVAEVPkehwtpegHSIVGFAMYFTYDP-----WIGKLYEDFFMSDRGFGIASEILKNSQvAMrcrCsSMHFLVAeWNePSINYKRRGASDLsEEG---WRLFkIDKEYLLkmat</p>
638	C	9.87	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=3.22 (Å)  -MTKVERLLIN-YKT-EEFKFKF--YGIqELSMLEE-qdNiin-DST---SPFYGIYFG-----DKLVARMSLYOVNGKsnpyfdNRODYIEWKLELPGYONRYRALVEFAKS-FK---M-PIRTNPR--M-KSAEWNKMNFKTV--KYDmarDKGEDpliwhpmdr-----  akFVIRPATAAdCSDiRLIKELAkYymEEQ-VILTEKD1--L--dGFgehpfYHCLVAEVPkehwtpegHSIVGFAMYFTYDP-----WIGKLYEDFFMSDRGFGIASEILKNSQvAMrcrCsSMHFLVAeWNePSINYKRRGASDLsEEG---WRLF-----kidkeyllk</p> <p>----  mate</p> <p><b>SARST:</b> aliSize=125 (resi) RMSD=17.64 (Å)  mtkverllinyktleefkfkfkeygIQELSMLELODNIENDSTSpfYGIYFG-----DKLVARMSLYOVNGKsnpyfdNRODYIELWKLE-----VLPGYONRYRALVEFAKSFKM-PIRTNPRMKSAAEFWNKMNFKTVKYDMARDKGEDPLIWH-----  ---akFVIRPATAAdCSDiRLIKELAKYymEEQVILTEKD1LE---EKdlledgfgEHPFYHCLVAEVPkeHWTPEGHsiVGFAMYFTYDPWIGKLYEDFFMSDRGFGIASEILKNSQVAMRCRCsSMHFLVAEWNepsINYKRRGASDLSSSEGWRLFkIDkeyllkmat</p> <p>hpmdr  -----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=21.05% (32/152) simi=39.47% (60/152)  mtkverllinyktleefkfkfkeyg-----OELSMLELODNI--NISTSPFYIY-IGDKVARM--SLYOVNKS---NPYFDNRODYI-EWKLE---VLPGYONRYRALVEFAKSFKPIR-TNPRMKSAAEFWNKMNFKTV--MNF--KTVKYDMARDKG-----  -----akfvirpataadcsdiRLIKELAKYymEEQVILTEKD1LEDGFGEHPFYHCLVAEVPkeHWTPEGHsiVGFAMYFTYDPWIGKLYEDFFMSDRGFGIASEILKNSQVAMRCRCsSMHFLVAEWNepsINYKRRGASDLSSSEGWRLFkIDkeyllkmat</p> <p>---edpliwhpmdr  mate-----</p> <p><b>Proposed:</b> aliSize=130 (resi) RMSD=2.56 (Å)  -MTKVERLLI--NYKT-EEFKFKF--YGIqELSMLEE-qdNiin-ndST---SPFYGIYFG-----DKLVARMSLYOVNGKsnpyfdNRODYIEWKLELPGYONRYRALVEFAKS-FK---M-PIRTNPR-MK--SAEWNKMNFKTV--KYDmarDKGEDPLIWHPMDR-----c  akFVIRPATAAdCSDiRLIKELAkYymee-QV---ILTEKD1-----d--GFgehpfYHCLVAEVPkehwtpegHSIVGFAMYFTYDP-----WIGKLYEDFFMSDRGFGIASEILKNSQvAMrcrCsSMHFLVAeWNePSINYKRRGASDLsEEG---WRLFkIDKEYLLkmat</p>

639	2pr1A (152)	C	8.55	<p>TM-align: aliSize=127 (resi) RMSD=3.35 (Å) pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTETGVVPEQFM-KS--f--hMKksgdYYVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVSEEN---YM</p> <p>GEdpliwphdmdr--- CR-----rfik</p> <p>SARST: aliSize=114 (resi) RMSD=5.70 (Å) mtkverlliny-----KTLEEFKKFKE--YGIOELSMLELqdnIIEndSTSpFYGIYFG--GDKLVARMSLYOVngksNPYFDNRDYLWLELPGYONRGYGRAVEFAKS---FKM-PIRTNPRMKSAEFWNKMNFKTV -----pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTETGVVPEQFM-KS--f--hMKksgdYYVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVS</p> <p>KY-----dmarkgedpliwphdmdr EEnymcrrfrik-----</p> <p>BLAST: aliSize=20 (resi) iden=7.89% (12/152) simi=13.16% (20/152) mtkverllinyktleefkfkkeygiqelsmleelqdniiendstspfygiyfgdklvarmslyqvnngksnpyfdnrqdyelwklelpgyq-----NRGYGRAVEFAKSFKmpIRTNPRMKSAEFWNKMNFKTVKDM----- -----pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTETGVVPEQFM-KS--f--hMKksgdYYVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVS</p> <p>-----ardkgedpliwphdmdr atatliiehkfihscakgrvedvvsdecrqkqlgkllistltskklncykitleclpqnvgfykkfgytvseEnymcrrfrik-----</p> <p>Proposed: aliSize=124 (resi) RMSD=2.32 (Å) pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTE--Tgv--VS-PEQf---Mks---FehMkksgdYyVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVSE</p> <p>YdmarkgedPLIWHPDM-drc E-----NYMCRRFLKc---</p>
	2o28A (182)			<p>TM-align: aliSize=127 (resi) RMSD=3.36 (Å) pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTETGVVPEQFM-KS--f--hMKksgdYYVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVSEEN---YM</p> <p>GEdpliwphdmdr-- CR-----rf</p> <p>SARST: aliSize=120 (resi) RMSD=7.62 (Å) mtkverlliny-----KTLEEFKKFKE--YGIOELSMLELQDNIIIEndSTSpFYGIYFG--GDKLVARMSLYOVngksNPYFDNRDYLWLELPGYONRGYGRAVEFAKSFKM-PIRTNPRMKSAEFWNKMNFKTV -----pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTE--Tgv--VS-PEQf---Mks---FehMkksgdYyVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVS</p> <p>KYdmarkgedPLIWHP-dmdr E-----NYMCRRf---</p> <p>BLAST: aliSize=20 (resi) iden=7.89% (12/152) simi=13.16% (20/152) mtkverllinyktleefkfkkeygiqelsmleelqdniiendstspfygiyfgdklvarmslyqvnngksnpyfdnrqdyelwklelpgyq-----NRGYGRAVEFAKSFKmpIRTNPRMKSAEFWNKMNFKTVKDM----- -----pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTETGVVPEQFM-KS--f--hMKksgdYYVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVS</p> <p>-----ardkgedpliwphdmdr atatliiehkfihscakgrvedvvsdecrqkqlgkllistltskklncykitleclpqnvgfykkfgytvseEnymcrrfrik-----</p> <p>Proposed: aliSize=122 (resi) RMSD=2.36 (Å) pdetpmdpsllkevdsqntatfspaispHPgeglVLRPCTAdLNR-GFVVLgQLTE--Tgv--VS-PEQf---Mks---FehMkksgdYyVTVEDvTlGQIVATATIIIEHKFI-----HScAKRGRVEDVVSDCECRGKQLGKL LSTLTLs kInCykITLECLPQNVGYKFGYTVSE</p> <p>YdmarkgedPLIWHPD-mdrc E-----NYMCRRfC---</p>
641	2pr1A (152)	C	9.03	<p>TM-align: aliSize=124 (resi) RMSD=2.88 (Å) mtKVERLLINyKTLIEEFKKF-KEY--GIqELSMLELqdniiend-ST---SPFYGIYFGDKLVARMSLYOVNgkSNPYFDNRDYLWLELPGYONRGYGRAVEFAKS-FK---M-PIRTNPR--MKS-AEFWNKMNFKTVKYdmarDKGEdpliwphdmdr--- --DIRQMNKT-HLEHWRGLRkQLWpgHP-DDAHLADG-----E--eILqadhLASFIAMADGVAIGFADASIRHD-YVNGCD--SSPVVFLGIFVLPsFRQRGVAKQIAAVQRwGtnkgCrEMASDTSpeNTIsQKVHqALGFEETER-----VIFY-----rkrcc</p> <p>SARST: aliSize=121 (resi) RMSD=8.71 (Å) mtkverlliny-----YKTLIEEFKKFKEYGIOELSMLELQDNIIIEndSTSpFYGIYFGDKLVARMSLYOVngksNPYFDNRDYLWLELPGYONRGYGRAVEFAKSFKM-PIRTNPRMKSAEFWNKMNFKTVKYdMARDKGEDPLIWHP-----dmdr -----dirqmktHLEHWRGLRkQLWpgHPDDAHLADG--EiLQADH--LAS--FIAMADGVAIGFADASIR--HDYVNGCDSSPVVFLGIFVLPsFRQRGVAKQIAAVQRwGtnkgCrEMASDTSpeNTIsQKVHqALGFEETER-----VIFY-----rkrcc</p> <p>BLAST: aliSize=10 (resi) iden=3.47% (5/144) simi=6.94% (10/144) mtkverllinyktleefkfkkeygiqelsmleelqdniiendstspfygiyfgdklvarmslyqvnngksnpyfdnrqdyelwklelpgyq-----YKTLIEEFKKFKEYGIOELSMLELQDNIIIEndSTSpFYGIYFGDKLVARMSLYOVngksNPYFDNRDYLWLELPGYONRGYGRAVEFAKSFKM-PIRTNPRMKSAEFWNKMNFKTVKYdMARDKGEDPLIWHP-----dmdr -----dirqmktHLEHWRGLRkQLWpgHPDDAHLADG--EiLQADH--LAS--FIAMADGVAIGFADASIR--HDYVNGCDSSPVVFLGIFVLPsFRQRGVAKQIAAVQRwGtnkgCrEMASDTSpeNTIsQKVHqALGFEETER-----VIFY-----rkrcc</p> <p>-----qnrgygralvefaksfkmpirtnprmkSAEFWNKMNFKTVKYdmarkgedpliwphdmdr sdtspentisqkvhqalqfeetervifyrkrcc-----</p> <p>Proposed: aliSize=124 (resi) RMSD=2.27 (Å) mtKVERLLINyKTLIEEFKKF-KEY--GI--QELSMLELqdniiendst---SPFYGIYFGDKLVARMSLYOVNgkSNPYFDNRDYLWLELPGYONRGYGRAVEFAKS-FK---M-PIRTNPR--MKS-AEFWNKMNFKTVKYdmarkgedPLIWHPDM-drc --DIRQMNKT--HLEHWRGLRkQLWpgHPDDAHLADG--Ei-----LqadhLASFIAMADGVAIGFADASIRHD-YVNGCD--SSPVVFLGIFVLPsFRQRGVAKQIAAVQRwGtnkgCrEMASDTSpeNTIsQKVHqALGFEETER-----VIFY-----rkrcc</p>
	2vbqB (144)			

642	C	10.53	<p><b>TM-align:</b> aliSize=127 (resi) RMSD=3.35 (Å) entplf s p s l i s p d v l a v l p a d y t i r p l c r s d y k r g y l d v l r v l t t v g d i n e e q w n s r y e w i r a r s d e y l l v v c d g e g r i v g t g s l v v e r k f i h s l g m v g h i e d i a v e k q g k k l g l r i i q a l d y v a e k v g c y k t i l d c s e a n e g y i c g f r a g l e m a h y y</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=6.73 (Å) mtkverllin-----YK-TLEEFKFKFKYGiqlsmleelqdniendstspFYGIYFD-KLVARMSLYOVNgksnPYFDNRQDYELWKLELPYINRGYRALVEFAKSF-K---M-PIRTNPRMKSAEFWNMNFKTKYDmarDKGE dpl i whp d m d r -----entplf s p s l i s p d v l a v l p a d y t i r p l c r s d y k r g y l d v l r v l t t v g d i n e e q w n s r y e w i r a r s d e y l l v v c d g e g r i v g t g s l v v e r k f i h s l g m v g h i e d i a v e k q g k k l g l r i i q a l d y v a e k v g c y k t i l d c s e a n e g y i c g f r a g l e m a h y y</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=3.95% (6/152) simi=5.26% (8/152) mtkverllinyktleefkfkkeygiqlsmleelqdniendstspfygiyfgdklvarmslyqvnngksnpyfdnrqdyelwklvlpgyqnrqyralvefaksfkmpirtnprmsae-----entplf s p s l i s p d v l a v l p a d y t i r p l c r s d y k r g y l d v l r v l t t v g d i n e e q w n s r y e w i r a r s d e y l l v v c d g e g r i v g t g s l v v e r k f i h s l g m v g h i e d i a v e k q g k k l g l r i i q a l d y v a e k v g c y k t i l d c s e a n e g y i c g f r a g l e m a h y y</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=2.34 (Å) entplf s p s l i s p d v l a v l p a d y t i r p l c r s d y k r g y l d v l r v l t t v g d i n e e q w n s r y e w i r a r s d e y l l v v c d g e g r i v g t g s l v v e r k f i h s l g m v g h i e d i a v e k q g k k l g l r i i q a l d y v a e k v g c y k t i l d c s e a n e g y i c g f r a g l e m a h y y</p> <p>HP-dmdrc Yc-----</p>
643	C	12.26	<p><b>TM-align:</b> aliSize=131 (resi) RMSD=3.36 (Å) dsVTI RLmtehDLAMLYEWLNRS-HI-VE--W-----WG-GEEar--Pila---Dvq--EOYLPsvLAqeSVTPYIAM-NG-EPIIYAOSYVALGsgdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtr -TIM-TP---QTEEFRSYLYTtkHyAekVkagtwlPEDAQL--lsk---qvft--dlLPRGLE-TP--HHHLWSLKNKDIVGWLWIHAEPH-----HPQAEAFYDF-GL-YEPYRgkgYAKQALALDQAARSMG-IRLRLSLHVFHQTARKLYEQTGFQEDVVM---S</p> <p>qafe--- ---kkl</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.08 (Å) dsVTI RLmtehDLAMLYEWLNRS-HI-VE--W-----WG-GEEar--Pila---Dvq--EOYLPsvLAqeSVTPYIAM-NG-EPIIYAOSYVALGsgdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtr -TIM-TP---QTEEFRSYLYTtkHyAekVkagtwlPEDAQL--lsk---qvft--dlLPRGLE-TP--HHHLWSLKNKDIVGWLWIHAEPH-----HPQAEAFYDF-GL-YEPYRgkgYAKQALALDQAARSMG-IRLRLSLHVFHQTARKLYEQTGFQEDVVM---S</p> <p>P--AYIVOT-rqafe FqtdVMSKKI-----</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=12.90% (20/155) simi=18.71% (29/155) dsvtlrImtehdlamlyewlnrshivevwggeeartladvqeqlpsvlaqesvtpyiamlNgepiyaqsyvalgsdg-----EETDpGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe -tImtpmqteefrsyltyttkhyAekvkagtwlpedaql lskqvftdl lprgletphhlwslklnekdivGWLWIHAEPH-QQAEAFYDF-GL-YEPYRgkgYAKQALALDQAARSMG-IRLRLSLHVFHQTARKLYEQTGFQEDVVM---S</p> <p>RALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe ALDQAA-RSMGIRLRLSLHVFHQTARKLYEQTGFQEDVVMskkl-----</p> <p><b>Proposed:</b> aliSize=128 (resi) RMSD=2.56 (Å) dsVTI RLmtehDLAMLYEWLNRS-HI-VE--W-----WG-GEEar--Pila---Dvq--EOYLPsvLAqeSVTPYIAM-NG-EPIIYAOSYVALGsgdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe -TIM-TP---QTEEFRSYLYTtkHyAekVkagtwlPEDAQL lskqvftdl lprgletphhlwslklnekdivGWLWIHAEPH-----HPQAEAFYDF-GL-YEPYRgkgYAKQALALDQAARSMG-IRLRLSLHVFHQTARKLYEQTGFQEDVVM---S</p> <p>YMVotrqafe MSK-----L--</p>
644	C	12.75	<p><b>TM-align:</b> aliSize=138 (resi) RMSD=3.40 (Å) DSVTI RLmtehDLAMLYEWLNRS-HI-VE--W-----WG-GEEar--Pila---Dvq--EOYLPsvLAqeSVTPYIAM-NG-EPIIYAOSYVALGsgdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe EYTIVDGEE-YIE-EIKKLDREIsYsfvrfpisyeyeer--rHEELFES--L-SQGEHKFFVALnerSELLGHVVICIT-----DTVDYV-KIAYYDI-EV--VKWARglgCSALLRKAEWAKER-GAKKVLVRVEIDNP-VKWEER-GYKAR-ALI--ME-----kpi</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=11.29 (Å) dsvTLRLMtehDLAMLYEWLNRS-HI-VE--W-----WG-GEEar--Pila---Dvq--EOYLPsvLAqeSVTPYIAM-NG-EPIIYAOSYVALGsgdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe ---eYTIVDGEE-YIE-EIKKLDREIsYsfvrfpisyeyeer--rHEELFES--L-SQGEHKFFVALnerSELLGHVVICIT-----DTVDYV-KIAYYDI-EV--VKWARglgCSALLRKAEWAKER-GAKKVLVRVEIDNP-VKWEER-GYKAR-ALI--ME-----kpi</p> <p>VOT-rqafe EKPI-----</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=8.72% (13/149) simi=16.11% (24/149) dsvtlrImtehdlamlyewlnrshivevwggeeartladvqeqlpsvlaqesvtpyiamlNgepiyaqsyvalgsdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe -----EYTIVDGEE-YIE-EIKKLDREIsYsfvrfpisyeyeerheelfesllsqgehkffvalnersellghvvicitldtdvykiayiy</p> <p>dievkwargLGTCSALLRKAEWA-KERGAKKVLVRVEIDNP-VKWEER-GYKARALIMEKPI-----</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=3.09 (Å) DSVTI RLmtehDLAMLYEWLNRS-HI-VE--W-----WG-GEEar--Pila---Dvq--EOYLPsvLAqeSVTPYIAM-NG-EPIIYAOSYVALGsgdgwweeTDPGVRGIDLSIANaSQLGKG--LGTKLVRALVELLFNDPEVTIOTDPSPSLRAIRCYEKAIFEROGTVTtpdGpavymvqtrqafe EYTIVDGEE-YIE-EIKKLDREIsYsfvrfpisyeyeer--rHEELFES--L-SQGEHKFFVALnerSELLGHVVICIT-----DTVDYV-KIAYYDI-EV--VKWARglgCSALLRKAEWAKER-GAKKVLVRVEIDNP-VKWEER-GYKARALIMEKPI-----</p>

645	<p>2pr8A (173)</p> <p>2vbqA (147)</p>	C	14.29	<p><b>TM-align: aliSize=139 (resi) RMSD=3.24 (Å)</b>        DSVTLRLNTEHDAMLYEWLNRSHIvewwggEeaRPTIaDVOEAYL--PSVlAoEsvTPYtAmLNGEPtGyOSYVALGsgdGwEEETDPGRIDLS1ANasOLGKGLGtKLVRAVEL-LF--NDPEVTKIOTDPSFSLRAIRCYEKAFFROGTVtTPDgpaVymvqtrqafe---SHMDIQRNKNKTHLEHWRGLRKLQWLP-----GHP-DD--AHLADGeeiLQ--AD-HLASFTAMADQVAIGFADASIRHD----YVNGCDSSPVFLEGI-FV--LPSFRQR-GVAKQLAAVQRWgTNKGCREMASITSPENTISQKVHQUALGFETERVIFYR-----krcc</p> <p><b>SARST: aliSize=140 (resi) RMSD=7.02 (Å)</b>        d-SVTLRLNTEHDAMLYEWLNRSHIvewwggEeaRPTIADVOEAYLPSVLAQESVTPYtAmLNGEPtGyOSYVALGSGDGWEEETDPGRIDLS1ANASQlGKGLGtKLVRAVELLFDNDPEVTKIOTDPSFSLRAIRCYEKAFFROGTVtTPDgpaVYMVOT-rqafe-sHMDIQRNKNKTHLEHWRGLRKLQWLP-----GHPDDAHLADG-EEIQAQDLHASFAMADQVAIGFADAS--LRHDYVNGCDSS--PVPVLEGI-fvIPSFQRGR-----VAQLIAVQRWGTNKGCREMASITSPENTISQKVHQUALGFETERVIFYRKR-----</p> <p><b>BLAST: aliSize=66 (resi) iden=23.81% (35/147) simi=44.90% (66/147)</b>        dsvtlrlmtehdlamlyew-----LNRSITVE-----GHEARPTIADVOEAYLPSVLAQESVTPYtAmLNGEPtGyOSYVALGSGDGWEEETDPGRIDLS1ANASQlGKGLGtKLVRAVELLFDNDPEVTKIOTDPSFSLRAIRCYEKAFF-----rqgtvttpdgpa        -----shmdirqMKNKTHLEHWRGLRKLQWLP-----GHPDDAHLADGEE-----IQADHLASFAMADQVAIGFADASIRHDYVNGC-----DSSFPVfLEGI-FV--LPSFRQR-GVAKQLIAVQRWGTNKGCREMASITSPENTISQKVHQUALGFETERVIFYRKR-----vymvqtrqafe</p> <p><b>Proposed: aliSize=139 (resi) RMSD=2.78 (Å)</b>        DSVTLRLNTEHDAMLYEWLNRSHIvewwggEeaRPTIADVOEAYLPSVLAQESVTPYtAmLNGEPtGyOSYVALGsgdGwEEETDPGRIDLS1ANASQlGKGLG-tKLVRAVELLFN--DP-EVTKIOTDPSFSLRAIRCYEKAFFROGTVtTPDgpaVYMVOTRqaFE-SHMDIQRNKNKTHLEHWRGLRKLQWLP-----H-PDD--AHLADGeeiLQAD--HLASFAMADQVAIGFADASIRHD----YVngCDSSPVFLEGI-FV--LPSFRQR-GVAKQLIAVQRWgTNKGCREMASITSPENTISQKVHQUALGFETERVIFYRKR-----</p>
646	<p>2qlrA (425)</p> <p>lahxA (396)</p>	N	13.38	<p><b>TM-align: aliSize=331 (resi) RMSD=3.06 (Å)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p> <p><b>SARST: aliSize=340 (resi) RMSD=13.08 (Å)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p> <p><b>BLAST: aliSize=83 (resi) iden=10.86% (43/396) simi=20.96% (83/396)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p> <p><b>Proposed: aliSize=354 (resi) RMSD=2.63 (Å)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p>
647	<p>2qlrA (425)</p> <p>1aiaA (396)</p>	N	13.89	<p><b>TM-align: aliSize=332 (resi) RMSD=3.20 (Å)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p> <p><b>SARST: aliSize=328 (resi) RMSD=11.64 (Å)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p> <p><b>BLAST: aliSize=31 (resi) iden=5.81% (23/396) simi=7.83% (31/396)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p> <p><b>Proposed: aliSize=356 (resi) RMSD=2.71 (Å)</b>        mnyarfitaasaarntpirtmtdilsrgpkmslsgglpnpnmpfkTavi-----mfenitaapadpigliadlfraderpgkiniglyydetgkipvLTSVKAEOYLLE-NEIT-KLGLDTPHFGRCTQELFGK-GSALINDK---RARTAOPLFGTGAIRVAADFLAKntSVKRrWVSNrSW</p>



648	2qlrA (425)	N	12.63	<p><b>TM-align:</b> aliSize=331 (resi) <b>RMSD=3.13 (Å)</b> mnyarfi taasaarnpspirtmtidilsrgpkmslsgaglpnnpmpfkTavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p> <p><b>SARST:</b> aliSize=336 (resi) <b>RMSD=12.82 (Å)</b> mnyarfi taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p> <p><b>BLAST:</b> aliSize=31 (resi) <b>iden=5.81% (23/396)</b> <b>simi=7.83% (31/396)</b> mnyarf-----Yarf-----SRGPK-SM-AGIPNPFKtavi -----mfeni taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p>
	larhA (396)			<p><b>Proposed:</b> aliSize=355 (resi) <b>RMSD=2.72 (Å)</b> mnyarfi taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p>

649	2qlrA (425)	N	12.88	<p><b>TM-align:</b> aliSize=331 (resi) <b>RMSD=3.05 (Å)</b> mnyarfi taasaarnpspirtmtidilsrgpkmslsgaglpnnpmpfkTavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p> <p><b>SARST:</b> aliSize=346 (resi) <b>RMSD=14.51 (Å)</b> mnyarfi taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p> <p><b>BLAST:</b> aliSize=31 (resi) <b>iden=5.81% (23/396)</b> <b>simi=7.83% (31/396)</b> mnyarf-----Yarf-----SRGPK-SM-AGIPNPFKtavi -----mfeni taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p>
	lariA (396)			<p><b>Proposed:</b> aliSize=353 (resi) <b>RMSD=2.61 (Å)</b> mnyarfi taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p>

650	2qlrA (425)	N	13.38	<p><b>TM-align:</b> aliSize=331 (resi) <b>RMSD=3.16 (Å)</b> mnyarfi taasaarnpspirtmtidilsrgpkmslsgaglpnnpmpfkTavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p> <p><b>SARST:</b> aliSize=348 (resi) <b>RMSD=14.77 (Å)</b> mnyarfi taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p> <p><b>BLAST:</b> aliSize=31 (resi) <b>iden=5.81% (23/396)</b> <b>simi=7.83% (31/396)</b> mnyarf-----Yarf-----SRGPK-SM-AGIPNPFKtavi -----mfeni taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p>
	larsA (396)			<p><b>Proposed:</b> aliSize=354 (resi) <b>RMSD=2.67 (Å)</b> mnyarfi taas-aARNPSPIRTMTDILSRGPKMSLSAGIPNPFKtavi -----mfeni taapadpigi adlfraderpgkinigivykdetgktpVLSVKKAEQYLLLE-NETT-KNLGIDIEFGRCTOELFGK- -----SALNDR-----RARTAOEFGTGA RVAADFLAKNtSVKR WWSN-SH</p>

651	2qlrA (425)	N	12.88	<p><b>TM-align:</b> aliSize=332 (resi) RMSD=3.22 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----TVENKRTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p> <p><b>SARST:</b> aliSize=311 (resi) RMSD=5.67 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----TVENKRTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p> <p><b>BLAST:</b> aliSize=311 (resi) iden=5.81% (23/396) simi=7.83% (31/396) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----TVENKRTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p>
	1asfA (396)			<p><b>Proposed:</b> aliSize=358 (resi) RMSD=2.78 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----TVENKRTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p>

652	2qlrA (425)	N	20.68	<p><b>TM-align:</b> aliSize=331 (resi) RMSD=2.39 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----mrglsrrvqamkpsatvavnakalelrrqgvdvltatagepfdtpehvkEaARRAL-AQG-KTKIAAPGIGPELREALAEKFRRENGL-SVT-----PEETIIVVGKIAFNLQAALDQDEIVLSYVWYSY</p> <p><b>SARST:</b> aliSize=329 (resi) RMSD=6.24 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----AVITVENKRTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p> <p><b>BLAST:</b> aliSize=167 (resi) iden=25.92% (99/382) simi=43.72% (167/382) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----FEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p>
	1b5oA (382)			<p><b>Proposed:</b> aliSize=359 (resi) RMSD=2.10 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----LTAAGP-P-DFTDPEhvkEaARRAL-AQG-KTKIAAPGIGPELREALAEKFRRENGL-SVT-----TpeETIIVVGKIAFNLQAALDQDEIVLSYVWYSY</p>

653	2qlrA (425)	N	20.42	<p><b>TM-align:</b> aliSize=331 (resi) RMSD=2.39 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----mrglsrrvqamkpsatvavnakalelrrqgvdvltatagepfdtpehvkEaARRAL-AQG-KTKIAAPGIGPELREALAEKFRRENGL-SVT-----PEETIIVVGKIAFNLQAALDQDEIVLSYVWYSY</p> <p><b>SARST:</b> aliSize=330 (resi) RMSD=4.92 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----FNCKTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p> <p><b>BLAST:</b> aliSize=168 (resi) iden=25.92% (99/382) simi=43.98% (168/382) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----FEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p>
	1bkgA (382)			<p><b>Proposed:</b> aliSize=361 (resi) RMSD=2.00 (Å) mnyarfttaasaarnpspirtmtidilsrgpkmsislaglgnpmmpfktavt-----AVITVENKRTLOFGEMMKRALQSPSAHPLLSWLKOLIKLHNPPTIHYPPSgqMDLGVSSOOGCKVFMITINPGDIDDFAYS</p>

654	<div data-bbox="163 226 252 304">2qlrA (425)</div> <div data-bbox="163 550 252 627">1g4vA (396)</div>	N	12.63	<p><b>TM-align: aliSize=331 (resi) RMSD=3.18 (Å)</b></p> <pre> mnyarfi taasaarnspirtmtidilsrgpkmsislaglgnpmnmpfktaiv-----mfeni taapadp1gladi fraaderpkinigivykedetgkpvLTSVKkaeQVLE-NEIT-KN LGIDITFEGRCTOELFGK-GSALNDK----RARTAQHPGTGGA RVAADFLAKntSVKRWVSNLWSP ----- SGLTOSHP-LGCNLIIVAS---ESGIVpSRDI-SRWKpedaknpqkNTpkfLTVVPGNNSLSRKKETVYARKYDFITE DPVYFQFNKfrvPTLSMDV-DGVRIRAD---FSTLSSGELTFLGP-----K-PLIFERVILHVOVSTLHSTFNOLMISQIHFWG-FEGMAH PNKSVNSaGLEVREYAYVYaenhTLDFAINSNEA-----QAGDVLFHGCCHAITDPIEIQWOTLACSVEKGWPLIFFAOGFARGLEEdaEGLRAFaAaMHKELVSSYSKNFGLYNEVACLVaadsetvdRAFESOMKAAIRANYSNPAGASVAVATISNDAIRAIWEQELTDMRQIORMROLFVNTLQEKGANRDFSPiKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----  VDRVLDVYSNOKDAITAADKWLtGLAEWH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl ELTDMRQIORMROLFVNTLQEKGANRDFSPiKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----  SARST: aliSize=351 (resi) RMSD=14.86 (Å)</pre> <p><b>BLAST: aliSize=31 (resi) iden=5.81% (23/396) simi=7.83% (31/396)</b></p> <p>l fhgchaptgidptleqwtlaqlsvekgwlp1fdfaqgfargleedaeglrafaamhke1vassysknfglynervgactlvaadsetvdrafsqmkaairansnppahgasvatilsndalraiqeqltdmrqirrmqlfvntlqekganrdfsfiikqngmfsfglkeqvrlreef</p> <p>gvyavasgrvnvagtmaplceaiav1-----l1swkqlqiklhnptihyppsqqmldcvtsqsqqglckvfemiinpgdnvl1depaystlqslhplgenci invadesgipds1rdi1srwkpedaknpqkntpkflytpngnptgns1tserkkeiye1arkydf1iiedppyyflqfnk1</p> <p>rvptflsmdvgrviradsfsiissglrigfltgpkpliervilhiqvtlhpstfnqlmsqllheggeegfmahdvrdvfydnqkdalaaadkwltglawhvpagmflwkvkgingvkeleekavkmgvlmpgnafyvdsapsyprasfssapeqmdvafvqlaqlikes1</p> <p><b>Proposed: aliSize=353 (resi) RMSD=2.66 (Å)</b></p> <pre> mm-YARfi taasa-aKnPSRRTMTIDISRGPKMSISAGLGNP-----mfeni taapadp1gladi fraaderpkinigivykedetgkpvLTSVKkaeQVLE-NEIT-KN LGIDITFEGRCTOELFGK-GSALNDK----RARTAQHPGTGGA RVAADFLAKntsV-KRWVSNLWSPNHKSVNSaGLEVREYAYVYaenhT-L ----- IVpSRDI-LSR-wkpedaknpqkNTpkfLTVVPGNNSLSRKKETVYARKYDFITE DPVYFQFNKfrvPTLSMDV-DGVRIRAD---FSTLSSGELTFLGP-----K-PLIFERVILHVOVSTLHSTFNOLMISQIHFWG-FEGMAH VDRVLDVYSNOKDAITAADKWLtGLAEWH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl LGLaFVH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl GANR-DFsfiIKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----</pre>
655	<div data-bbox="163 890 252 968">2qlrA (425)</div> <div data-bbox="163 1192 252 1270">1g4xA (396)</div>	N	13.13	<p><b>TM-align: aliSize=332 (resi) RMSD=3.29 (Å)</b></p> <pre> mnyarfi taasaarnspirtmtidilsrgpkmsislaglgnpmnmpfktaiv-----mfeni taapadp1gladi fraaderpkinigivykedetgkpvLTSVKkaeQVLE-NEIT-KN LGIDITFEGRCTOELFGK-GSALNDK----RARTAQHPGTGGA RVAADFLAKntSVKRWVSNLWSP ----- SGLTOSHP-LGCNLIIVAS---ESGIVpSRDI-SRWKpedaknpqkNTpkfLTVVPGNNSLSRKKETVYARKYDFITE DPVYFQFNKfrvPTLSMDV-DGVRIRAD---FSTLSSGELTFLGP-----K-PLIFERVILHVOVSTLHSTFNOLMISQIHFWG-FEGMAH PNKSVNSaGLEVREYAYVYaenhTLDFAINSNEA-----QAGDVLFHGCCHAITDPIEIQWOTLACSVEKGWPLIFFAOGFARGLEEdaEGLRAFaAaMHKELVSSYSKNFGLYNEVACLVaadsetvdRAFESOMKAAIRANYSNPAGASVAVATISNDAIRAIWEQELTDMRQIORMROLFVNTLQEKGANRDFSPiKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----  VDRVLDVYSNOKDAITAADKWLtGLAEWH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl ELTDMRQIORMROLFVNTLQEKGANRDFSPiKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----  SARST: aliSize=335 (resi) RMSD=14.07 (Å)</pre> <p><b>BLAST: aliSize=31 (resi) iden=5.81% (23/396) simi=7.83% (31/396)</b></p> <p>l fhgchaptgidptleqwtlaqlsvekgwlp1fdfaqgfargleedaeglrafaamhke1vassysknfglynervgactlvaadsetvdrafsqmkaairansnppahgasvatilsndalraiqeqltdmrqirrmqlfvntlqekganrdfsfiikqngmfsfglkeqvrlreef</p> <p>gvyavasgrvnvagtmaplceaiav1-----l1swkqlqiklhnptihyppsqqmldcvtsqsqqglckvfemiinpgdnvl1depaystlqslhplgenci invadesgipds1rdi1srwkpedaknpqkntpkflytpngnptgns1tserkkeiye1arkydf1iiedppyyflqfnk1</p> <p>rvptflsmdvgrviradsfsiissglrigfltgpkpliervilhiqvtlhpstfnqlmsqllheggeegfmahdvrdvfydnqkdalaaadkwltglawhvpagmflwkvkgingvkeleekavkmgvlmpgnafyvdsapsyprasfssapeqmdvafvqlaqlikes1</p> <p><b>Proposed: aliSize=352 (resi) RMSD=2.68 (Å)</b></p> <pre> mm-YARfi taasa-aKnPSRRTMTIDISRGPKMSISAGLGNP-----mfeni taapadp1gladi fraaderpkinigivykedetgkpvLTSVKkaeQVLE-NEIT-KN LGIDITFEGRCTOELFGK-GSALNDK----RARTAQHPGTGGA RVAADFLAKntsV-KRWVSNLWSPNHKSVNSaGLEVREYAYVYaenhT-L ----- IVpSRDI-LSR-wkpedaknpqkNTpkfLTVVPGNNSLSRKKETVYARKYDFITE DPVYFQFNKfrvPTLSMDV-DGVRIRAD---FSTLSSGELTFLGP-----K-PLIFERVILHVOVSTLHSTFNOLMISQIHFWG-FEGMAH VDRVLDVYSNOKDAITAADKWLtGLAEWH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl LGLaFVH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl GANR-DFsfiIKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----</pre>
656	<div data-bbox="163 1520 252 1598">2qlrA (425)</div> <div data-bbox="163 1822 252 1900">1g7wA (396)</div>	N	13.89	<p><b>TM-align: aliSize=332 (resi) RMSD=3.27 (Å)</b></p> <pre> mnyarfi taasaarnspirtmtidilsrgpkmsislaglgnpmnmpfktaiv-----mfeni taapadp1gladi fraaderpkinigivykedetgkpvLTSVKkaeQVLE-NEIT-KN LGIDITFEGRCTOELFGK-GSALNDK----RARTAQHPGTGGA RVAADFLAKntSVKRWVSNLWSP ----- SGLTOSHP-LGCNLIIVAS---ESGIVpSRDI-SRWKpedaknpqkNTpkfLTVVPGNNSLSRKKETVYARKYDFITE DPVYFQFNKfrvPTLSMDV-DGVRIRAD---FSTLSSGELTFLGP-----K-PLIFERVILHVOVSTLHSTFNOLMISQIHFWG-FEGMAH PNKSVNSaGLEVREYAYVYaenhTLDFAINSNEA-----QAGDVLFHGCCHAITDPIEIQWOTLACSVEKGWPLIFFAOGFARGLEEdaEGLRAFaAaMHKELVSSYSKNFGLYNEVACLVaadsetvdRAFESOMKAAIRANYSNPAGASVAVATISNDAIRAIWEQELTDMRQIORMROLFVNTLQEKGANRDFSPiKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----  VDRVLDVYSNOKDAITAADKWLtGLAEWH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl ELTDMRQIORMROLFVNTLQEKGANRDFSPiKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----  SARST: aliSize=330 (resi) RMSD=12.17 (Å)</pre> <p><b>BLAST: aliSize=31 (resi) iden=5.81% (23/396) simi=7.83% (31/396)</b></p> <p>l fhgchaptgidptleqwtlaqlsvekgwlp1fdfaqgfargleedaeglrafaamhke1vassysknfglynervgactlvaadsetvdrafsqmkaairansnppahgasvatilsndalraiqeqltdmrqirrmqlfvntlqekganrdfsfiikqngmfsfglkeqvrlreef</p> <p>gvyavasgrvnvagtmaplceaiav1-----l1swkqlqiklhnptihyppsqqmldcvtsqsqqglckvfemiinpgdnvl1depaystlqslhplgenci invadesgipds1rdi1srwkpedaknpqkntpkflytpngnptgns1tserkkeiye1arkydf1iiedppyyflqfnk1</p> <p>rvptflsmdvgrviradsfsiissglrigfltgpkpliervilhiqvtlhpstfnqlmsqllheggeegfmahdvrdvfydnqkdalaaadkwltglawhvpagmflwkvkgingvkeleekavkmgvlmpgnafyvdsapsyprasfssapeqmdvafvqlaqlikes1</p> <p><b>Proposed: aliSize=350 (resi) RMSD=2.77 (Å)</b></p> <pre> mm-YARfi taasa-aKnPSRRTMTIDISRGPKMSISAGLGNP-----mfeni taapadp1gladi fraaderpkinigivykedetgkpvLTSVKkaeQVLE-NEIT-KN LGIDITFEGRCTOELFGK-GSALNDK----RARTAQHPGTGGA RVAADFLAKntsV-KRWVSNLWSPNHKSVNSaGLEVREYAYVYaenhT-L ----- EAGIVpSRDI-SRWKpedaknpqkNTpkfLTVVPGNNSLSRKKETVYARKYDFITE DPVYFQFNKfrvPTLSMDV-DGVRIRAD---FSTLSSGELTFLGP-----K-PLIFERVILHVOVSTLHSTFNOLMISQIHFWG-FEGMAH VDRVLDVYSNOKDAITAADKWLtGLAEWH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl LGLaFVH-VPAAGHVIKkgindVTEEKAVKMMLMpgnafyvdsapsyLRSFSSASFCQDVAFOVIAOIkesl GANR-DFsfiIKONNSFSGL----TTEOVLRLREEFVYAVAS-----GLNVNAGMIDNAPLCEAIVAVL----</pre>



660	2qlrA (425)	N	13.84	<p><b>TM-align: aliSize=309 (resi) RMSD=3.17 (Å)</b> mnyarfitaasaarnspirtmtidilsrgpksmslaglppnmfptktavi-----VengKTIQfgeemkralQSPSaGIPeLlSWLKOiKlHnptIhyppsqgMDLVSISOCCKVFFMIIN--NPGDNLDFAYSTLQSLHPL-LGCNIINVAS--ESGIvpsRDL--SRWkpedaknpqkNTPKfLYTPVNGNPTNSLTSRrKKELYEARKYDFLIEDEYFQFNKFRVPTLMSVDVGRVIRADSF--I--SSGLLITFLGP-----K-PLIFRVILHVOVSTLHSTFNOLMISQIFHWG-EGFMAHVDRVIDFYSNOKDAILAAADKWITglawhVPAAGMFWIKVgIndvKEL-TEFKA-VKMG-VLMLPGAFY--vdssapSPYASFSS-ASPFMDVFOVLA-likesl S-AvK--S1WD-QgTLIRDOQKQPsl-----GCRITVGTIEESORVIDARAE--V--</p>
	lijiA (354)			<p><b>SARST: aliSize=339 (resi) RMSD=12.41 (Å)</b> mnyarfitaasaarnspirtmtidilsrgpksmslaglppnmfptktavi-----VengKTIQfgeemkralQSPSaGIPeLlSWLKOiKlHnptIhyppsqgMDLVSISOCCKVFFMIIN--NPGDNLDFAYSTLQSLHPL-LGCNIINVAS--ESGIvpsRDL--SRWkpedaknpqkNTPKfLYTPVNGNPTNSLTSRrKKELYEARKYDFLIEDEYFQFNKFRVPTLMSVDVGRVIRADSF--I--SSGLLITFLGP-----K-PLIFRVILHVOVSTLHSTFNOLMISQIFHWG-EGFMAHVDRVIDFYSNOKDAILAAADKWITglawhVPAAGMFWIKVgIndvKEL-TEFKA-VKMG-VLMLPGAFY--vdssapSPYASFSS-ASPFMDVFOVLA-likesl S-AvK--S1WD-QgTLIRDOQKQPsl-----GCRITVGTIEESORVIDARAE--V--</p>

661	2qlrA (425)	N	13.38	<p><b>TM-align: aliSize=332 (resi) RMSD=3.26 (Å)</b> mnyarfitaasaarnspirtmtidilsrgpksmslaglppnmfptktavi-----mfenitaapadpigliadlfraderpgkinligfykdeigtktptLTSVKAEOYLLENETTKN LGIDLIEFGRCTOEELFGK-GSAL-NDK-----RARTAOPIGTGARVAADFLAKntSVKRWWSNLSWPNHKSVENSaGLEVREYAYYaenHTLDF--LAINSN-EA-----QAGDVLPHGCCCHLIDPFLQWOTLAQSVKGMPLIFAFQGFARGLLEDAEGRAFAMHKELVSSYKNgLYNERVACLVaadsetvDRAFOSMKAARANYSNPAHGASVATLISNDALRAIWEQELTDMRQRIORMROLFVNTLOEKANDPSPFIKONMSESGI-----TK--OVLRLREEFYAVAS--GNVAGMIDNAPLCEAIVAVI-----</p>
	lix6A (396)			<p><b>SARST: aliSize=329 (resi) RMSD=12.51 (Å)</b> mnyarfitaasaarnspirtmtidilsrgpksmslaglppnmfptktavi-----VengKTIQfgeemkralQSPSaGIPeLlSWLKOiKlHnptIhyppsqgMDLVSISOCCKVFFMIIN--NPGDNLDFAYSTLQSLHPL-LGCNIINVAS--ESGIvpsRDL--SRWkpedaknpqkNTPKfLYTPVNGNPTNSLTSRrKKELYEARKYDFLIEDEYFQFNKFRVPTLMSVDVGRVIRADSF--I--SSGLLITFLGP-----K-PLIFRVILHVOVSTLHSTFNOLMISQIFHWG-EGFMAHVDRVIDFYSNOKDAILAAADKWITglawhVPAAGMFWIKVgIndvKEL-TEFKA-VKMG-VLMLPGAFY--vdssapSPYASFSS-ASPFMDVFOVLA-likesl S-AvK--S1WD-QgTLIRDOQKQPsl-----GCRITVGTIEESORVIDARAE--V--</p>

662	2qlrA (425)	N	13.13	<p><b>TM-align: aliSize=332 (resi) RMSD=3.28 (Å)</b> mnyarfitaasaarnspirtmtidilsrgpksmslaglppnmfptktavi-----mfenitaapadpigliadlfraderpgkinligfykdeigtktptLTSVKAEOYLLENETTKN LGIDLIEFGRCTOEELFGK-GSAL-NDK-----RARTAOPIGTGARVAADFLAKntSVKRWWSNLSWPNHKSVENSaGLEVREYAYYaenHTLDF--LAINSN-EA-----QAGDVLPHGCCCHLIDPFLQWOTLAQSVKGMPLIFAFQGFARGLLEDAEGRAFAMHKELVSSYKNgLYNERVACLVaadsetvDRAFOSMKAARANYSNPAHGASVATLISNDALRAIWEQELTDMRQRIORMROLFVNTLOEKANDPSPFIKONMSESGI-----TK--OVLRLREEFYAVAS--GNVAGMIDNAPLCEAIVAVI-----</p>
	lix8A (396)			<p><b>SARST: aliSize=334 (resi) RMSD=12.27 (Å)</b> mnyarfitaasaarnspirtmtidilsrgpksmslaglppnmfptktavi-----VengKTIQfgeemkralQSPSaGIPeLlSWLKOiKlHnptIhyppsqgMDLVSISOCCKVFFMIIN--NPGDNLDFAYSTLQSLHPL-LGCNIINVAS--ESGIvpsRDL--SRWkpedaknpqkNTPKfLYTPVNGNPTNSLTSRrKKELYEARKYDFLIEDEYFQFNKFRVPTLMSVDVGRVIRADSF--I--SSGLLITFLGP-----K-PLIFRVILHVOVSTLHSTFNOLMISQIFHWG-EGFMAHVDRVIDFYSNOKDAILAAADKWITglawhVPAAGMFWIKVgIndvKEL-TEFKA-VKMG-VLMLPGAFY--vdssapSPYASFSS-ASPFMDVFOVLA-likesl S-AvK--S1WD-QgTLIRDOQKQPsl-----GCRITVGTIEESORVIDARAE--V--</p>

663	<div data-bbox="172 226 243 298">2qlrA (425)</div> <div data-bbox="172 550 243 621">1j32A (388)</div>	N 16.49	<p><b>TM-align:</b> aliSize=336 (resi) RMSD=2.55 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>SARST:</b> aliSize=361 (resi) RMSD=12.87 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>BLAST:</b> aliSize=165 (resi) iden=24.74% (96/388) simi=42.53% (165/388)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>Proposed:</b> aliSize=366 (resi) RMSD=2.07 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p>
664	<div data-bbox="172 875 243 947">2qlrA (425)</div> <div data-bbox="172 1194 243 1266">1o4sA (375)</div>	N 18.67	<p><b>TM-align:</b> aliSize=327 (resi) RMSD=2.59 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>SARST:</b> aliSize=351 (resi) RMSD=12.84 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>BLAST:</b> aliSize=176 (resi) iden=27.20% (102/375) simi=46.93% (176/375)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>Proposed:</b> aliSize=345 (resi) RMSD=2.07 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p>
665	<div data-bbox="172 1526 243 1598">2qlrA (425)</div> <div data-bbox="172 1845 243 1917">1qirA (396)</div>	N 12.63	<p><b>TM-align:</b> aliSize=331 (resi) RMSD=3.09 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>SARST:</b> aliSize=331 (resi) RMSD=12.50 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>BLAST:</b> aliSize=31 (resi) iden=5.81% (23/396) simi=7.83% (31/396)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p> <p><b>Proposed:</b> aliSize=355 (resi) RMSD=2.66 (Å)  mnyarfi taasaarnpspirtmt dilsrgpkmsislagglpnpmfptkavi <b>TVENGKTI-OFGEAMMKRA</b>LOVSPSAIPFLSWKLOIKLHNpPTIHyppsqgMDLCSOGLCKVEMINPNDNLIDFAVSGTLOSTHPLGCNIINVASDE--SG--TVYDLSI  -----mkiarvesvpsmtliidakakamkaegidvcsfsagepdlnfPKHIVEAA<b>KAAL-EOG-K</b>TRIGAGGERREALAKLORDNGL--CYG-----ADNLTINNGKSTFNLMMLAMERDEIIPAFWVSYTP</p>

666	<div style="text-align: center;"> <p>2qlrA (425)</p> <hr/> <p>1spaA (396)</p> </div>	N	12.88	<p><b>TM-align: aliSize=332 (resi) RMSD=3.23 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>SARST: aliSize=333 (resi) RMSD=12.19 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>BLAST: aliSize=311 (resi) iden=5.81% (23/396) simi=7.83% (31/396)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>Proposed: aliSize=352 (resi) RMSD=2.64 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p>
667	<div style="text-align: center;"> <p>2qlrA (425)</p> <hr/> <p>1uu1C (335)</p> </div>	N	11.64	<p><b>TM-align: aliSize=296 (resi) RMSD=3.20 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>SARST: aliSize=311 (resi) RMSD=12.05 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>BLAST: aliSize=61 (resi) iden=10.15% (34/335) simi=18.21% (61/335)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>Proposed: aliSize=312 (resi) RMSD=2.72 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p>
668	<div style="text-align: center;"> <p>2qlrA (425)</p> <hr/> <p>1uu2A (321)</p> </div>	N	12.77	<p><b>TM-align: aliSize=294 (resi) RMSD=3.10 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>SARST: aliSize=307 (resi) RMSD=11.21 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>BLAST: aliSize=61 (resi) iden=10.59% (34/321) simi=19.00% (61/321)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p> <p><b>Proposed: aliSize=299 (resi) RMSD=2.58 (Å)</b>  mnyarfitaasaarncspirtmtidilsrgpksmsislagglnnmpfktavi-----ITVnGKTIQFGeeMKRALQSPSaGIPGIIISWIKOIQIKhNpPTiHyppsgqMDLVIISOOGLCKVFEMIIInpdnVITDEAAGTLOSLHP--LGCNIINVASIdessIpdSLrdLsRWpedaknpknTPKfITVTPNGNPTNSIstSRKKEIYELARKYDFLIEDEDFLFIOFKFRVPTIISMDVGRVIRADSIIS--SSGLIIFITGPKPIERVILHIQVstIhPST---FNQILMISOLHewGeeGFMAHVDRVIDFYSNQKDAIAADKWTGLAEHWHPVPAAGMFWTKgINDVTEKAVKMGVLMlPgnafyvdsapsylIASFSASASPEQMDVAFQVIAqlikes1</p>





672	2qlrA (425)  1yaaA (412)	N	10.44	<p><b>TM-align:</b> aliSize=335 (resi) RMSD=2.96 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi -----TVPN-CK-TIOGEPMMKRAL SPSA I P I L SWL K O I K L h N P P T I H Y P p s q g M D L C V T S G S O O G C K V F F M I I - - N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- F S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E F G M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p> <p><b>SARST:</b> aliSize=334 (resi) RMSD=16.58 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tveNGKI IQGEEEMKRA -----LQ SPSA I P I L SWL K O I K L h n p p t I H Y P P - S O G M D L C V T S G S O O G C K V F F M I - - I N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- E S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R V I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E E G E M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p> <p><b>BLAST:</b> aliSize=85 (resi) iden=13.35% (55/412) simi=20.63% (85/412) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tvengki iqigeemkral qyspsagi p e l l s w l k q l i k i h n p p t i h y p p s q g m d l c v t s g s q g l c k v f e m i n p g d n v l d e p a y s g t l q s l h p l g c n i i n v a s d e s g i v p d s l r d i l s r w k p e d a k n p k n t</p> <p>pkf lytvpng -----satlfnnielppdalfgikqrygdqratk v d l g i g a y r d d n g k p w l p s v k a a e k l i h n d s s y n h e y l g i t g l p s i t s n a a k i i f g t q s d a l q e d r v i s v q s l s g t g a l h i s a k f f s k f p d k l v y l s k p t w a n h m a i f e n g q l k t a t y p y w a n e t k s l d i n g f i n a i q k a p e g s i f v -----N N S L S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R P T I S M D V D G R V I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E G F M A H V D R I D F Y S N O K D A I I A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p> <p><b>Proposed:</b> aliSize=359 (resi) RMSD=2.59 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tveNGKI IQGEEEMKRA -----LQ SPSA I P I L SWL K O I K L h N P P T I H Y P p s q g M D L C V T S G S O O G C K V F F M I I - - N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- F S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E F G M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p>
673	2qlrA (425)  1yooA (396)	N	12.63	<p><b>TM-align:</b> aliSize=331 (resi) RMSD=3.09 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi -----mfenit tapadp i g l a d l f r a d e r p g k i d i g m v y n d e t e k t p v l t s v k k a e o y l l e - n e t t - k n l g i d i e f e r g r c t o e l f c g - g s a l i n d k - - - R A K T A Q P F G T G A R V A A D F L A k n t s V - - R R W S N S W P N H K S V E N S A G L E V R E Y A Y Y a e n h T L D F - - - D A I N S N E A - - - - - Q A G D V L F H G C C H N P I D P L L O W Q L A Q S V E K G W P L F P A Q G F A R G L E E D a E G L R A F A A M H K E L I V S Y S Y K N F g L Y N E V A C L V a a d s e t V D R A F S O M K A A R N Y S S P A H G A S V V A T I S N D A I R A I W E Q E L T D M R Q R I O R M R O L F V N T L O E K G A N R D F S F T I K O N G M F F F - - - G L T S O V L R L R E E F G Y A V A S -----G L N V A G M I D N L A P L C E A I V A V I i ----</p> <p><b>SARST:</b> aliSize=330 (resi) RMSD=9.04 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tveNGKI IQGEEEMKRA -----LQ SPSA I P I L SWL K O I K L h n p p t I H Y P P - S O G M D L C V T S G S O O G C K V F F M I - - I N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- F S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R V I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E F G M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p> <p><b>BLAST:</b> aliSize=42 (resi) iden=7.07% (28/396) simi=10.61% (42/396) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tvengki iqigeemkral qyspsagi p e l l s w l k q l i k i h n p p t i h y p p s q g m d l c v t s g s q g l c k v f e m i n p g d n v l d e p a y s g t l q s l h p l g c n i i n v a s d e s g i v p d s l r d i l s r w k p e d a k n p k n t</p> <p>pkf lytvpng -----mfenit tapadp i l g l a d l f r a d e r p g k i d i g m v y n d e t e k t p v l t s v k k a e o y l l e n e t t k n y G D G I F e g r C T E L L K G S A I N K R A T A O T P G T - - - G A R V A a d - - - K N T S V K R W S N S W P N H K S V N S a g l e v r e y a y d a e n h l d f a l i n s i n e a a g a d v l i f h g c c h n p t i d p t l e q w t l a q l s v e k g w p l f d f a y q f a r g l e e d a e g l r a f a a m h k e l i v a s s y s k n f g l y n e r v g a c t l v a a d s e t v d r a f s o m k a a i r v n y s s p a h g a s v v a t i i g n d a l r a i w e q e l t d m r q r i q r m r q l f v n t l q e k g a n r d f s f t i k q n g m f f g g l t k e q v i r l r e e f g -----q l m i s q l l h e w g e e g f m a h v d r i d f y s n g k d a i l a a a d k w l t g l a e w h v p a a g m f l w i k v k g i n d v k l i e e k a v k m g l m l p g n a f y d s s a p s p y l r a s f s s a s p e q m d v a f v l a q l i k e s l</p> <p><b>Proposed:</b> aliSize=355 (resi) RMSD=2.70 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tveNGKI IQGEEEMKRA -----LQ SPSA I P I L SWL K O I K L h N P P T I H Y P p s q g M D L C V T S G S O O G C K V F F M I I - - N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- F S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R V I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E F G M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p>
674	2qlrA (425)  2d5yA (396)	N	12.63	<p><b>TM-align:</b> aliSize=331 (resi) RMSD=3.08 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi -----mfenit tapadp i g l a d l f r a d e r p g k i n l g i g y k d e t e k t p v l t s v k k a e o y l l e - n e t t - k n l g i d i e f e r g r c t o e l f c g - g s a l i n d k - - - R A K T A Q P F G T G A R V A A D F L A k n t s V - - R R W S N S W P N H K S V E N S A G L E V R E Y A Y Y a e n h T L D F - - - D A I N S N E A - - - - - Q A G D V L F H G C C H N P I D P L L O W Q L A Q S V E K G W P L F P A Q G F A R G L E E D a E G L R A F A A M H K E L I V S Y S Y K N F g L Y N E V A C L V a a d s e t V D R A F S O M K A A R N Y S S P A H G A S V V A T I S N D A I R A I W E Q E L T D M R Q R I O R M R O L F V N T L O E K G A N R D F S F T I K O N G M F F F - - - G L T S O V L R L R E E F G Y A V A S -----G L N V A G M I D N L A P L C E A I V A V I i ----</p> <p><b>SARST:</b> aliSize=337 (resi) RMSD=12.15 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tveNGKI IQGEEEMKRA -----LQ SPSA I P I L SWL K O I K L h n p p t I H Y P P - S O G M D L C V T S G S O O G C K V F F M I - - I N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- F S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R V I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E F G M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p> <p><b>BLAST:</b> aliSize=42 (resi) iden=7.07% (28/396) simi=10.61% (42/396) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tvengki iqigeemkral qyspsagi p e l l s w l k q l i k i h n p p t i h y p p s q g m d l c v t s g s q g l c k v f e m i n p g d n v l d e p a y s g t l q s l h p l g c n i i n v a s d e s g i v p d s l r d i l s r w k p e d a k n p k n t</p> <p>pkf -----mfenit tapadp i l g l a d l f r a d e r p g k i n l g i g y k d e t e k t p v l t s v k k a e o y l l e n e t t k n y G D G I F e g r C T E L L K G S A I N K R A T A O T P G T - - - G A R V A a d - - - K N T S V K R W S N S W P N H K S V N S a g l e v r e y a y d a e n h l d f a l i n s i n e a a g a d v l i f h g c c h n p t i d p t l e q w t l a q l s v e k g w p l f d f a y q f a r g l e e d a e g l r a f a a m h k e l i v a s s y s k n f g l y n e r v g a c t l v a a d s e t v d r a f s o m k a a i r v n y s s p a h g a s v v a t i i s n d a l r a i w e q e l t d m r q r i q r m r q l f v n t l q e k g a n r d f s f t i k q n g m f f g g l t k e q v i r l r e e f g y v a -----q l m i s q l l h e w g e e g f m a h v d r i d f y s n g k d a i l a a a d k w l t g l a e w h v p a a g m f l w i k v k g i n d v k l i e e k a v k m g l m l p g n a f y d s s a p s p y l r a s f s s a s p e q m d v a f v l a q l i k e s l</p> <p><b>Proposed:</b> aliSize=355 (resi) RMSD=2.67 (Å) mnyarfi taasaarnpsirtmdilsrgpkmsislagl pnpnmfpk tavi tveNGKI IQGEEEMKRA -----LQ SPSA I P I L SWL K O I K L h N P P T I H Y P p s q g M D L C V T S G S O O G C K V F F M I I - - N P G D N I I D F A Y S G T I O S T H P L G C N I I N V A S D --- F S G I V P S R D I L S R W K P E D A K N P K N T P K F I Y T V P N G N P N S I S R K K E Y F L A R K Y D F I L T E D P Y F I F O F N K F R V P T L S M D V - - D - G R V I R A D S - - - F S I S S L I I F E L G P - - - - - K P L I F R V I L H O V S T L H S T F N O L M T S O L H E W G E F G M A H V D R I D F Y S N O K D A I I A A A D K W I T G L A E W H V P A A G M F L W K V K g i n d V K F I T F E K A V K M G L M I P g n a f y d s s a p s p y L A S F S S A S P E O M D V A F O V I A O I T K E S L</p>



678	2qlrA (425)	N	17.47	<p><b>TM-align:</b> aliSize=333 (resi) RMSD=2.76 (Å)</p> <p>mnyarfitaasaarnspirmttdilsrgpksmsi <b>l</b>agglpnpnmfpfktavi <b>l</b>idlsigs <b>l</b>d <b>l</b>ppPEAPLKALAEALND <b>l</b>pt <b>l</b>tyg <b>l</b>ckl <b>l</b>sc <b>l</b>tl <b>l</b>pf <b>l</b>EEAARWYEGRYGV <b>l</b>g <b>l</b>d <b>l</b>rre <b>l</b>ALAL <b>l</b>ISGEH <b>l</b>AHL <b>l</b>LALTE <b>l</b>E <b>l</b>L <b>l</b>L <b>l</b>PL <b>l</b>PV <b>l</b>PSYFGAARVAS <b>l</b>RL <b>l</b>TEL <b>l</b>PL <b>l</b>R <b>l</b>D <b>l</b>GL <b>l</b>AD <b>l</b>L <b>l</b>K <b>l</b>AV <b>l</b>--P <b>l</b>EG <b>l</b>W <b>l</b>-R <b>l</b>-----E <b>l</b>A <b>l</b>V <b>l</b>LL <b>l</b>NP <b>l</b>- <b>l</b>NP <b>l</b>AV <b>l</b>AD <b>l</b>W <b>l</b>GY <b>l</b>FE <b>l</b>AL <b>l</b>G <b>l</b>A <b>l</b>R <b>l</b>H <b>l</b>G <b>l</b>L <b>l</b>W <b>l</b>L <b>l</b>H <b>l</b>N <b>l</b>P <b>l</b>V <b>l</b>D <b>l</b>Q <b>l</b>Y <b>l</b>EG <b>l</b>-E <b>l</b>A <b>l</b>S <b>l</b>P <b>l</b>A <b>l</b>L <b>l</b>P <b>l</b>G <b>l</b>A <b>l</b>K <b>l</b>E <b>l</b>N <b>l</b>V <b>l</b>L <b>l</b>A <b>l</b>F <b>l</b>L <b>l</b>E <b>l</b>A <b>l</b>L <b>l</b>E <b>l</b>R <b>l</b>V <b>l</b>K <b>l</b>G <b>l</b>I <b>l</b>D <b>l</b>F <b>l</b>N <b>l</b>O <b>l</b>Y <b>l</b>A <b>l</b>G <b>l</b>V <b>l</b>L <b>l</b>R <b>l</b>G <b>l</b>V <b>l</b>E <b>l</b>A <b>l</b>--K <b>l</b>-----T <b>l</b>P <b>l</b>K <b>l</b>E <b>l</b>V <b>l</b>R <b>l</b>G <b>l</b>Y <b>l</b>A <b>l</b>R <b>l</b>R <b>l</b>E <b>l</b>R <b>l</b>A <b>l</b>L <b>l</b>G <b>l</b>M <b>l</b>A <b>l</b>E <b>l</b>L <b>l</b>K <b>l</b>---G</p> <p><b>SARST:</b> aliSize=326 (resi) RMSD=5.38 (Å)</p> <p>mnyarfitaasaarnspirmttdilsrgpksmsi <b>l</b>agglpnpnmfpfktavi <b>l</b>v <b>l</b>----- <b>l</b>FN <b>l</b>GT <b>l</b>I <b>l</b>O <b>l</b>F <b>l</b>GF <b>l</b>EM <b>l</b>K <b>l</b>R <b>l</b>----- <b>l</b>AL <b>l</b>O <b>l</b>S <b>l</b>P <b>l</b>S <b>l</b>A <b>l</b>G <b>l</b>I <b>l</b>P <b>l</b>E <b>l</b> <b>l</b>SW <b>l</b>L <b>l</b>K <b>l</b>O <b>l</b>L <b>l</b>O <b>l</b>I <b>l</b>K <b>l</b>L <b>l</b>HN <b>l</b>P <b>l</b>pt <b>l</b>i <b>l</b>h <b>l</b>yp <b>l</b>sq <b>l</b>q <b>l</b>g <b>l</b>md <b>l</b>LC <b>l</b>VT <b>l</b>S <b>l</b>SO <b>l</b>O <b>l</b>G <b>l</b>CK <b>l</b>V <b>l</b>F <b>l</b>EM <b>l</b>I <b>l</b>N <b>l</b>G <b>l</b>N <b>l</b>V <b>l</b>D <b>l</b>EP <b>l</b> <b>l</b>SG <b>l</b>T <b>l</b>OS <b>l</b>L <b>l</b>H <b>l</b>PL <b>l</b>GC <b>l</b>NI <b>l</b>IN <b>l</b>V <b>l</b>AS <b>l</b>D <b>l</b>- <b>l</b>FS <b>l</b>G <b>l</b>IV <b>l</b>PD <b>l</b>SI <b>l</b>rd <b>l</b>II <b>l</b>SR <b>l</b>WK <b>l</b>Pe <b>l</b>D <b>l</b>AK <b>l</b>np <b>l</b>q <b>l</b>kn <b>l</b>TP <b>l</b>E <b>l</b>Y <b>l</b>TV <b>l</b>P <b>l</b>NG <b>l</b>N <b>l</b>NP <b>l</b>T <b>l</b>NS <b>l</b>LT <b>l</b>S <b>l</b>ER <b>l</b>KK <b>l</b>I <b>l</b>Y <b>l</b>E <b>l</b>AR <b>l</b>Y <b>l</b>D <b>l</b>FL <b>l</b>I <b>l</b>E <b>l</b>D <b>l</b>D <b>l</b>Y <b>l</b>F <b>l</b>LO <b>l</b>FK <b>l</b>FR <b>l</b>V <b>l</b>TF <b>l</b>S <b>l</b>M <b>l</b>D <b>l</b>V <b>l</b>D <b>l</b>- <b>l</b>GR <b>l</b>IR <b>l</b>AD <b>l</b>S <b>l</b>- <b>l</b>II <b>l</b>- <b>l</b>SS <b>l</b>RI <b>l</b>R <b>l</b>I <b>l</b>EL <b>l</b>T <b>l</b>PK <b>l</b>PL <b>l</b>E <b>l</b>V <b>l</b>IL <b>l</b>HI <b>l</b>O <b>l</b>ST <b>l</b>I <b>l</b>HP <b>l</b>ST <b>l</b>FN <b>l</b>OL <b>l</b>I <b>l</b>S <b>l</b>OL <b>l</b>He <b>l</b>w <b>l</b>ge <b>l</b>e <b>l</b>GF <b>l</b>MA <b>l</b>H <b>l</b>DR <b>l</b>VD <b>l</b>F <b>l</b>SN <b>l</b>OK <b>l</b>D <b>l</b>AI <b>l</b>A <b>l</b>A <b>l</b>D <b>l</b>kw <b>l</b>I <b>l</b>T <b>l</b>e <b>l</b>AF <b>l</b>WH <b>l</b>V <b>l</b>A <b>l</b>G <b>l</b>GF <b>l</b>I <b>l</b>K <b>l</b>VK <b>l</b>G <b>l</b>I <b>l</b>N <b>l</b>D <b>l</b>K <b>l</b>VE <b>l</b>L <b>l</b>E <b>l</b>E <b>l</b>A <b>l</b>K <b>l</b>M <b>l</b>G <b>l</b>V <b>l</b>L <b>l</b>M <b>l</b>L <b>l</b>P <b>l</b>NA <b>l</b>Y <b>l</b>V <b>l</b>D <b>l</b>SS <b>l</b>AP <b>l</b>SP <b>l</b>YL <b>l</b>AS <b>l</b>FS <b>l</b>S <b>l</b>ASP <b>l</b>OM <b>l</b>D <b>l</b>V <b>l</b>FO <b>l</b>V <b>l</b>A <b>l</b>OL <b>l</b>I <b>l</b>K <b>l</b>ES <b>l</b>1 <b>l</b>----- <b>l</b>V <b>l</b>L <b>l</b>S <b>l</b>LL <b>l</b>P <b>l</b>R <b>l</b>I <b>l</b>Y <b>l</b>L <b>l</b>GR <b>l</b>L <b>l</b>PE <b>l</b>GV <b>l</b>D <b>l</b>L <b>l</b>ER <b>l</b>VAL <b>l</b>A <b>l</b>GR <b>l</b>G <b>l</b>- <b>l</b>P <b>l</b>- <b>l</b>G <b>l</b>G <b>l</b>K <b>l</b>F <b>l</b>V <b>l</b>I <b>l</b>A <b>l</b>L <b>l</b>- <b>l</b>VR <b>l</b>PL <b>l</b>ELLE <b>l</b>AK <b>l</b>R <b>l</b>I <b>l</b>REAL <b>l</b>----</p> <p><b>BLAST:</b> aliSize=123 (resi) iden=20.97% (78/372) simi=33.06% (123/372)</p> <p>mnyarfitaasaarnspirmttdilsrgpksmsi <b>l</b>agglpnpnmfpfktav <b>l</b>lv <b>l</b>eng <b>l</b>kt <b>l</b>io <b>l</b>fg <b>l</b>cc <b>l</b>em <b>l</b>kr <b>l</b>al <b>l</b>q <b>l</b>ys <b>l</b>ps <b>l</b>ag <b>l</b>ipe <b>l</b>ll <b>l</b>sw <b>l</b>k <b>l</b>ql <b>l</b>q <b>l</b>ik <b>l</b>lh <b>l</b>np <b>l</b>pt <b>l</b>ih <b>l</b>yp <b>l</b>sq <b>l</b>q <b>l</b>md <b>l</b>lc <b>l</b>vt <b>l</b>s <b>l</b>----- <b>l</b>v <b>l</b>p <b>l</b>e <b>l</b>p <b>l</b>s <b>l</b>v <b>l</b> <b>l</b>vd <b>l</b>ea <b>l</b>rk <b>l</b>ra <b>l</b>er <b>l</b>g <b>l</b>v <b>l</b> <b>l</b>id <b>l</b>l <b>l</b>s <b>l</b>g <b>l</b>s <b>l</b> <b>l</b>d <b>l</b>l <b>l</b>pp <b>l</b>pe <b>l</b>ap <b>l</b>l <b>l</b>ka <b>l</b>la <b>l</b>e <b>l</b>al <b>l</b>nd <b>l</b>pt <b>l</b>ty <b>l</b>g <b>l</b>cl <b>l</b>sc <b>l</b>tl <b>l</b>pf <b>l</b>l <b>l</b>ee <b>l</b>aa <b>l</b>r <b>l</b>w <b>l</b>yg <b>l</b>----- <b>l</b>SO <b>l</b>O <b>l</b>G <b>l</b>CK <b>l</b>V <b>l</b>F <b>l</b>EM <b>l</b>I <b>l</b>N <b>l</b>G <b>l</b>N <b>l</b>V <b>l</b>D <b>l</b>EP <b>l</b> <b>l</b>SG <b>l</b>T <b>l</b>OS <b>l</b>L <b>l</b>H <b>l</b>PL <b>l</b>GC <b>l</b>NI <b>l</b>IN <b>l</b>V <b>l</b>AS <b>l</b>D <b>l</b>- <b>l</b>FS <b>l</b>G <b>l</b>IV <b>l</b>PD <b>l</b>SI <b>l</b>rd <b>l</b>II <b>l</b>SR <b>l</b>WK <b>l</b>Pe <b>l</b>D <b>l</b>AK <b>l</b>np <b>l</b>q <b>l</b>kn <b>l</b>TP <b>l</b>E <b>l</b>Y <b>l</b>TV <b>l</b>P <b>l</b>NG <b>l</b>N <b>l</b>NP <b>l</b>T <b>l</b>NS <b>l</b>LT <b>l</b>S <b>l</b>ER <b>l</b>KK <b>l</b>I <b>l</b>Y <b>l</b>E <b>l</b>AR <b>l</b>Y <b>l</b>D <b>l</b>FL <b>l</b>I <b>l</b>E <b>l</b>D <b>l</b>D <b>l</b>Y <b>l</b>F <b>l</b>LO <b>l</b>FK <b>l</b>FR <b>l</b>V <b>l</b>TF <b>l</b>S <b>l</b>M <b>l</b>- <b>l</b>D <b>l</b>V <b>l</b>D <b>l</b>- <b>l</b>GR <b>l</b>IR <b>l</b>AD <b>l</b>S <b>l</b>- <b>l</b>II <b>l</b>- <b>l</b>SS <b>l</b>RI <b>l</b>R <b>l</b>I <b>l</b>EL <b>l</b>T <b>l</b>PK <b>l</b>PL <b>l</b>E <b>l</b>V <b>l</b>IL <b>l</b>HI <b>l</b>O <b>l</b>ST <b>l</b>I <b>l</b>HP <b>l</b>ST <b>l</b>FN <b>l</b>OL <b>l</b>I <b>l</b>S <b>l</b>OL <b>l</b>He <b>l</b>w <b>l</b>ge <b>l</b>e <b>l</b>GF <b>l</b>MA <b>l</b>H <b>l</b>DR <b>l</b>VD <b>l</b>F <b>l</b>SN <b>l</b>OK <b>l</b>D <b>l</b>AI <b>l</b>A <b>l</b>A <b>l</b>D <b>l</b>kw <b>l</b>I <b>l</b>T <b>l</b>e <b>l</b>AF <b>l</b>WH <b>l</b>V <b>l</b>A <b>l</b>G <b>l</b>GF <b>l</b>I <b>l</b>K <b>l</b>VK <b>l</b>G <b>l</b>I <b>l</b>N <b>l</b>D <b>l</b>K <b>l</b>VE <b>l</b>L <b>l</b>E <b>l</b>E <b>l</b>A <b>l</b>K <b>l</b>M <b>l</b>G <b>l</b>V <b>l</b>L <b>l</b>M <b>l</b>L <b>l</b>P <b>l</b>NA <b>l</b>Y <b>l</b>V <b>l</b>D <b>l</b>SS <b>l</b>AP <b>l</b>SP <b>l</b>YL <b>l</b>AS <b>l</b>FS <b>l</b>S <b>l</b>ASP <b>l</b>OM <b>l</b>D <b>l</b>V <b>l</b>FO <b>l</b>V <b>l</b>A <b>l</b>OL <b>l</b>I <b>l</b>K <b>l</b>ES <b>l</b>1 <b>l</b>----- <b>l</b>V <b>l</b>L <b>l</b>S <b>l</b>LL <b>l</b>P <b>l</b>R <b>l</b>I <b>l</b>Y <b>l</b>L <b>l</b>GR <b>l</b>L <b>l</b>PE <b>l</b>GV <b>l</b>D <b>l</b>L <b>l</b>ER <b>l</b>VAL <b>l</b>A <b>l</b>GR <b>l</b>G <b>l</b>- <b>l</b>P <b>l</b>- <b>l</b>G <b>l</b>G <b>l</b>K <b>l</b>F <b>l</b>V <b>l</b>I <b>l</b>A <b>l</b>L <b>l</b>- <b>l</b>VR <b>l</b>PL <b>l</b>ELLE <b>l</b>AK <b>l</b>R <b>l</b>I <b>l</b>REAL <b>l</b>----- <b>l</b>PG <b>l</b>g <b>l</b>g <b>l</b>k <b>l</b>f <b>l</b>v <b>l</b>ri <b>l</b>al <b>l</b>vr <b>l</b>pl <b>l</b>e <b>l</b>ll <b>l</b>ea <b>l</b>kr <b>l</b>ire <b>l</b>al <b>l</b>----- <b>l</b>v <b>l</b>yd <b>l</b>s <b>l</b>ap <b>l</b>sp <b>l</b>yl <b>l</b>ra <b>l</b>s <b>l</b>f <b>l</b>ss <b>l</b>ap <b>l</b>q <b>l</b>md <b>l</b>v <b>l</b>aq <b>l</b>l <b>l</b>q <b>l</b>l <b>l</b>es <b>l</b>1</p> <p><b>Proposed:</b> aliSize=349 (resi) RMSD=2.13 (Å)</p> <p>mnyarfitaasaarnspirmttdilsrgpksmsi <b>l</b>agglpnpnmfpfktav <b>l</b>lv <b>l</b>eng <b>l</b>kt <b>l</b>io <b>l</b>fg <b>l</b>cc <b>l</b>em <b>l</b>kr <b>l</b>al <b>l</b>q <b>l</b>ys <b>l</b>ps <b>l</b>ag <b>l</b>ipe <b>l</b>ll <b>l</b>sw <b>l</b>k <b>l</b>ql <b>l</b>q <b>l</b>ik <b>l</b>lh <b>l</b>np <b>l</b>pt <b>l</b>ih <b>l</b>yp <b>l</b>sq <b>l</b>q <b>l</b>md <b>l</b>lc <b>l</b>vt <b>l</b>s <b>l</b>----- <b>l</b>v <b>l</b>p <b>l</b>e <b>l</b>p <b>l</b>s <b>l</b>v <b>l</b> <b>l</b>vd <b>l</b>ea <b>l</b>rk <b>l</b>ra <b>l</b>er <b>l</b>g <b>l</b>v <b>l</b> <b>l</b>id <b>l</b>l <b>l</b>s <b>l</b>g <b>l</b>s <b>l</b> <b>l</b>d <b>l</b>l <b>l</b>pp <b>l</b>pe <b>l</b>ap <b>l</b>l <b>l</b>ka <b>l</b>la <b>l</b>e <b>l</b>al <b>l</b>nd <b>l</b>pt <b>l</b>ty <b>l</b>g <b>l</b>cl <b>l</b>sc <b>l</b>tl <b>l</b>pf <b>l</b>l <b>l</b>ee <b>l</b>aa <b>l</b>r <b>l</b>w <b>l</b>yg <b>l</b>----- <b>l</b>SO <b>l</b>O <b>l</b>G <b>l</b>CK <b>l</b>V <b>l</b>F <b>l</b>EM <b>l</b>I <b>l</b>N <b>l</b>G <b>l</b>N <b>l</b>V <b>l</b>D <b>l</b>EP <b>l</b> <b>l</b>SG <b>l</b>T <b>l</b>OS <b>l</b>L <b>l</b>H <b>l</b>PL <b>l</b>GC <b>l</b>NI <b>l</b>IN <b>l</b>V <b>l</b>AS <b>l</b>D <b>l</b>- <b>l</b>FS <b>l</b>G <b>l</b>IV <b>l</b>PD <b>l</b>SI <b>l</b>rd <b>l</b>II <b>l</b>SR <b>l</b>WK <b>l</b>Pe <b>l</b>D <b>l</b>AK <b>l</b>np <b>l</b>q <b>l</b>kn <b>l</b>TP <b>l</b>E <b>l</b>Y <b>l</b>TV <b>l</b>P <b>l</b>NG <b>l</b>N <b>l</b>NP <b>l</b>T <b>l</b>NS <b>l</b>LT <b>l</b>S <b>l</b>ER <b>l</b>KK <b>l</b>I <b>l</b>Y <b>l</b>E <b>l</b>AR <b>l</b>Y <b>l</b>D <b>l</b>FL <b>l</b>I <b>l</b>E <b>l</b>D <b>l</b>D <b>l</b>Y <b>l</b>F <b>l</b>LO <b>l</b>FK <b>l</b>FR <b>l</b>V <b>l</b>TF <b>l</b>S <b>l</b>M <b>l</b>- <b>l</b>D <b>l</b>V <b>l</b>D <b>l</b>- <b>l</b>GR <b>l</b>IR <b>l</b>AD <b>l</b>S <b>l</b>- <b>l</b>II <b>l</b>- <b>l</b>SS <b>l</b>RI <b>l</b>R <b>l</b>I <b>l</b>EL <b>l</b>T <b>l</b>PK <b>l</b>PL <b>l</b>E <b>l</b>V <b>l</b>IL <b>l</b>HI <b>l</b>O <b>l</b>ST <b>l</b>I <b>l</b>HP <b>l</b>ST <b>l</b>FN <b>l</b>OL <b>l</b>I <b>l</b>S <b>l</b>OL <b>l</b>He <b>l</b>w <b>l</b>ge <b>l</b>e <b>l</b>GF <b>l</b>MA <b>l</b>H <b>l</b>DR <b>l</b>VD <b>l</b>F <b>l</b>SN <b>l</b>OK <b>l</b>D <b>l</b>AI <b>l</b>A <b>l</b>A <b>l</b>D <b>l</b>kw <b>l</b>I <b>l</b>T <b>l</b>e <b>l</b>AF <b>l</b>WH <b>l</b>V <b>l</b>A <b>l</b>G <b>l</b>GF <b>l</b>I <b>l</b>K <b>l</b>VK <b>l</b>G <b>l</b>I <b>l</b>N <b>l</b>D <b>l</b>K <b>l</b>VE <b>l</b>L <b>l</b>E <b>l</b>E <b>l</b>A <b>l</b>K <b>l</b>M <b>l</b>G <b>l</b>V <b>l</b>L <b>l</b>M <b>l</b>L <b>l</b>P <b>l</b>NA <b>l</b>Y <b>l</b>V <b>l</b>D <b>l</b>SS <b>l</b>AP <b>l</b>SP <b>l</b>YL <b>l</b>AS <b>l</b>FS <b>l</b>S <b>l</b>ASP <b>l</b>OM <b>l</b>D <b>l</b>V <b>l</b>FO <b>l</b>V <b>l</b>A <b>l</b>OL <b>l</b>I <b>l</b>K <b>l</b>ES <b>l</b>1 <b>l</b>----- <b>l</b>V <b>l</b>L <b>l</b>S <b>l</b>LL <b>l</b>P <b>l</b>R <b>l</b>I <b>l</b>Y <b>l</b>L <b>l</b>GR <b>l</b>L <b>l</b>PE <b>l</b>GV <b>l</b>D <b>l</b>L <b>l</b>ER <b>l</b>VAL <b>l</b>A <b>l</b>GR <b>l</b>G <b>l</b>- <b>l</b>P <b>l</b>- <b>l</b>G <b>l</b>G <b>l</b>K <b>l</b>F <b>l</b>V <b>l</b>I <b>l</b>A <b>l</b>L <b>l</b>- <b>l</b>VR <b>l</b>PL <b>l</b>ELLE <b>l</b>AK <b>l</b>R <b>l</b>I <b>l</b>REAL <b>l</b>----- <b>l</b>PG <b>l</b>g <b>l</b>g <b>l</b>k <b>l</b>f <b>l</b>v <b>l</b>ri <b>l</b>al <b>l</b>vr <b>l</b>pl <b>l</b>e <b>l</b>ll <b>l</b>ea <b>l</b>kr <b>l</b>ire <b>l</b>al <b>l</b>----- <b>l</b>v <b>l</b>yd <b>l</b>s <b>l</b>ap <b>l</b>sp <b>l</b>yl <b>l</b>ra <b>l</b>s <b>l</b>f <b>l</b>ss <b>l</b>ap <b>l</b>q <b>l</b>md <b>l</b>v <b>l</b>aq <b>l</b>l <b>l</b>q <b>l</b>l <b>l</b>es <b>l</b>1</p>
	2douA (372)			

679	2qlrA (425)	N	17.66	<p><b>TM-align:</b> aliSize=333 (resi) RMSD=2.76 (Å)</p> <p>mnyarfitaasaarnspirmttdilsrgpksmsi <b>l</b>agglpnpnmfpfktavi <b>l</b>----- <b>l</b>sv <b>l</b>lv <b>l</b>vd <b>l</b>ea <b>l</b>rk <b>l</b>ra <b>l</b>er <b>l</b>g <b>l</b>v <b>l</b> <b>l</b>id <b>l</b>l <b>l</b>s <b>l</b>g <b>l</b>s <b>l</b> <b>l</b>d <b>l</b>l <b>l</b>pp <b>l</b>pe <b>l</b>ap <b>l</b>l <b>l</b>ka <b>l</b>la <b>l</b>e <b>l</b>al <b>l</b>nd <b>l</b>pt <b>l</b>ty <b>l</b>g <b>l</b>cl <b>l</b>sc <b>l</b>tl <b>l</b>pf <b>l</b>l <b>l</b>ee <b>l</b>aa <b>l</b>r <b>l</b>w <b>l</b>yg <b>l</b>----- <b>l</b>SO <b>l</b>O <b>l</b>G <b>l</b>CK <b>l</b>V <b>l</b>F <b>l</b>EM <b>l</b>I <b>l</b>N <b>l</b>G <b>l</b>N <b>l</b>V <b>l</b>D <b>l</b>EP <b>l</b> <b>l</b>SG <b>l</b>T <b>l</b>OS <b>l</b>L <b>l</b>H <b>l</b>PL <b>l</b>GC <b>l</b>NI <b>l</b>IN <b>l</b>V <b>l</b>AS <b>l</b>D <b>l</b>- <b>l</b>FS <b>l</b>G <b>l</b>IV <b>l</b>PD <b>l</b>SI <b>l</b>rd <b>l</b>II <b>l</b>SR <b>l</b>WK <b>l</b>Pe <b>l</b>D <b>l</b>AK <b>l</b>np <b>l</b>q <b>l</b>kn <b>l</b>TP <b>l</b>E <b>l</b>Y <b>l</b>TV <b>l</b>P <b>l</b>NG <b>l</b>N <b>l</b>NP <b>l</b>T <b>l</b>NS <b>l</b>LT <b>l</b>S <b>l</b>ER <b>l</b>KK <b>l</b>I <b>l</b>Y <b>l</b>E <b>l</b>AR <b>l</b>Y <b>l</b>D <b>l</b>FL <b>l</b>I <b>l</b>E <b>l</b>D <b>l</b>D <b>l</b>Y <b>l</b>F <b>l</b>LO <b>l</b>FK <b>l</b>FR <b>l</b>V <b>l</b>TF <b>l</b>S <b>l</b>M <b>l</b>- <b>l</b>D <b>l</b>V <b>l</b>D <b>l</b>- <b>l</b>GR <b>l</b>IR <b>l</b>AD <b>l</b>S <b>l</b>- <b>l</b>II <b>l</b>- <b>l</b>SS <b>l</b>RI <b>l</b>R <b>l</b>I <b>l</b>EL <b>l</b>T <b>l</b>PK <b>l</b>PL <b>l</b>E <b>l</b>V <b>l</b>IL <b>l</b>HI <b>l</b>O <b>l</b>ST <b>l</b>I <b>l</b>HP <b>l</b>ST <b>l</b>FN <b>l</b>OL <b>l</b>I <b>l</b>S <b>l</b>OL <b>l</b>He <b>l</b>w <b>l</b>ge <b>l</b>e <b>l</b>GF <b>l</b>MA <b>l</b>H <b>l</b>DR <b>l</b>VD <b>l</b>F <b>l</b>SN <b>l</b>OK <b>l</b>D <b>l</b>AI <b>l</b>A <b>l</b>A <b>l</b>D <b>l</b>kw <b>l</b>I <b>l</b>T <b>l</b>e <b>l</b>AF <b>l</b>WH <b>l</b>V <b>l</b>A <b>l</b>G <b>l</b>GF <b>l</b>I <b>l</b>K <b>l</b>VK <b>l</b>G <b>l</b>I <b>l</b>N <b>l</b>D <b>l</b>K <b>l</b>VE <b>l</b>L <b>l</b>E <b>l</b>E <b>l</b>A <b>l</b>K <b>l</b>M <b>l</b>G <b>l</b>V <b>l</b>L <b>l</b>M <b>l</b>L <b>l</b>P <b>l</b>NA <b>l</b>Y <b>l</b>V <b>l</b>D <b>l</b>SS <b>l</b>AP <b>l</b>SP <b>l</b>YL <b>l</b>AS <b>l</b>FS <b>l</b>S <b>l</b>ASP <b>l</b>OM <b>l</b>D <b>l</b>V <b>l</b>FO <b>l</b>V <b>l</b>A <b>l</b>OL <b>l</b>I <b>l</b>K <b>l</b>ES <b>l</b>1 <b>l</b>----- <b>l</b>V <b>l</b>L <b>l</b>S <b>l</b>LL <b>l</b>P <b>l</b>R <b>l</b>I <b>l</b>Y <b>l</b>L <b>l</b>GR <b>l</b>L <b>l</b>PE <b>l</b>GV <b>l</b>D <b>l</b>L <b>l</b>ER <b>l</b>VAL <b>l</b>A <b>l</b>GR <b>l</b>G <b>l</b>- <b>l</b>P <b>l</b>- <b>l</b>G <b>l</b>G <b>l</b>K <b>l</b>F <b>l</b>V <b>l</b>I <b>l</b>A <b>l</b>L <b>l</b>- <b>l</b>VR <b>l</b>PL <b>l</b>ELLE <b>l</b>AK <b>l</b>R <b>l</b>I <b>l</b>REAL <b>l</b>----</p> <p><b>SARST:</b> aliSize=311 (resi) RMSD=4.04 (Å)</p> <p>mnyarfitaasaarnspirmttdilsrgpksmsi <b>l</b>agglpnpnmfpfktavi <b>l</b>eng <b>l</b>kt <b>l</b>io <b>l</b>fg <b>l</b>cc <b>l</b>em <b>l</b>kr <b>l</b>----- <b>l</b>AL <b>l</b>O <b>l</b>S <b>l</b>P <b>l</b>S <b>l</b>A <b>l</b>G <b>l</b>I <b>l</b>P <b>l</b>E <b>l</b> <b>l</b>SW <b>l</b>L <b>l</b>K <b>l</b>O <b>l</b>L <b>l</b>O <b>l</b>I <b>l</b>K <b>l</b>L <b>l</b>HN <b>l</b>P <b>l</b>pt <b>l</b>i <b>l</b>h <b>l</b>yp <b>l</b>sq <b>l</b>q <b>l</b>g <b>l</b>md <b>l</b>LC <b>l</b>VT <b>l</b>S <b>l</b>SO <b>l</b>O <b>l</b>G <b>l</b>CK <b>l</b>V <b>l</b>F <b>l</b>EM <b>l</b>I <b>l</b>N <b>l</b>G <b>l</b>N <b>l</b>V <b>l</b>D <b>l</b>EP <b>l</b> <b>l</b>SG <b>l</b>T <b>l</b>OS <b>l</b>L <b>l</b>H <b>l</b>PL <b>l</b>GC <b>l</b>NI <b>l</b>IN <b>l</b>V <b>l</b>AS <b>l</b>D <b>l</b>- <b>l</b>FS <b>l</b>G <b>l</b>IV <b>l</b>PD <b>l</b>SI <b>l</b>rd <b>l</b>II <b>l</b>SR <b>l</b>WK <b>l</b>Pe <b>l</b>D <b>l</b>AK <b>l</b>np <b>l</b>q <b>l</b>kn <b>l</b>TP <b>l</b>E <b>l</b>Y <b>l</b>TV <b>l</b>P <b>l</b>NG <b>l</b>N <b>l</b>NP <b>l</b>T <b>l</b>NS <b>l</b>LT <b>l</b>S <b>l</b>ER <b>l</b>KK <b>l</b>I <b>l</b>Y <b>l</b>E <b>l</b>AR <b>l</b>Y <b>l</b>D <b>l</b>FL <b>l</b>I <b>l</b>E <b>l</b>D <b>l</b>D <b>l</b>Y <b>l</b>F <b>l</b>LO <b>l</b>FK <b>l</b>FR <b>l</b>V <b>l</b>TF <b>l</b>S <b>l</b>M <b>l</b>- <b>l</b>D <b>l</b>V <b>l</b>D <b>l</b>- <b>l</b>GR <b>l</b>IR <b>l</b>AD <b>l</b>S <b>l</b>- <b>l</b>II <b>l</b>- <b>l</b>SS <b>l</b>RI <b>l</b>R <b>l</b>I <b>l</b>EL <b>l</b>T <b>l</b>PK <b>l</b>PL <b>l</b>E <b>l</b>V <b>l</b>IL <b>l</b>HI <b>l</b>O <b>l</b>ST <b>l</b>I <b>l</b>HP <b>l</b>ST <b>l</b>FN <b>l</b>OL <b>l</b>I <b>l</b>S <b>l</b>OL <b>l</b>He <b>l</b>w <b>l</b>ge <b>l</b>e <b>l</b>GF <b>l</b>MA <b>l</b>H <b>l</b>DR <b>l</b>VD <b>l</b>F <b>l</b>SN <b>l</b>OK <b>l</b>D <b>l</b>AI <b>l</b>A <b>l</b>A <b>l</b>D <b>l</b>kw <b>l</b>I <b>l</b>T <b>l</b>e <b>l</b>AF <b>l</b>WH <b>l</b>V <b>l</b>A <b>l</b>G <b>l</b>GF <b>l</b>I <b>l</b>K <b>l</b>VK <b>l</b>G <b>l</b>I <b>l</b>N <b>l</b>D <b>l</b>K <b>l</b>VE <b>l</b>L <b>l</b>E <b>l</b>E <b>l</b>A <b>l</b>K <b>l</b>M <b>l</b>G <b>l</b>V <b>l</b>L <b>l</b>M <b>l</b>L <b>l</b>P <b>l</b>NA <b>l</b>Y <b>l</b>V <b>l</b>D <b>l</b>SS <b>l</b>AP <b>l</b>SP <b>l</b>YL <b>l</b>AS <b>l</b>FS <b>l</b>S <b>l</b>ASP <b>l</b>OM <b>l</b>D <b>l</b>V <b>l</b>FO <b>l</b>V <b>l</b>A <b>l</b>OL <b>l</b>I <b>l</b>K <b>l</b></p>
-----	----------------	---	-------	--

681	<p>2qlrA (425)</p> <p>2egyB (394)</p>	N	26.65	<p><b>TM-align: aliSize=341 (resi) RMSD=2.05 (Å)</b>  mnyarfitaasaarnpspirmttdilsrgpkmsmlagglpnpnmfipktav-----LTVEn-GKTIOEGEEMKRALQVNSAIPESLWIKOLOIkhPptIhyppsqqMDI CVTSSOOG CKFFMIINP DNIDEAS  -----kplswseafgkgagriqastirelkl1qrpg1lsfagglpapelIpkEEA-aEAAARILREKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>SITLISLHPLCNITINASDSSIVPISRDIISWkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  MAIAAFRLQPRFLTYPAGEPDLIAEEVK-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>KNITIAAKWITGLAFWHVAAGMIIKVKGINDKVEIcFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  AQMHLIREVPKEVRYTRKGMVVMELPKGLSAEGIFRRLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>SARST: aliSize=375 (resi) RMSD=13.60 (Å)</b>  m--NYARFITAAASAARNPSPIRMTDLSRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRA-----LOVPSAIPESLWIKOLqiklhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISRDIISWk  -kpISWSEAFGKGAGRI--QASTIRELKLTO--GILSFAGGLAELPK-----EAAEAAARILrekevaLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>WkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  ER-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>DVKITIEFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  LSAAGLFRRLLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>BLAST: aliSize=203 (resi) iden=29.19% (115/394) simi=51.52% (203/394)</b>  mnyarfitaasaarnp-----PFTIMTDLISRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRAALQVNSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISR  -----kplswseafgkgagriqastirelkl1qrpg1lsfagglpapelIpkEEA-aEAAARIL-REKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>DITISWkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  EVKKE-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>V--ITNDVKITIEFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  LpKLS--AGLFRRLLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>Proposed: aliSize=379 (resi) RMSD=1.78 (Å)</b>  --MNYARFITAAASAARNPSPIRMTDLSRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRAALQVNSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISRDIISWk  kpLSWSEAFGKGAGRIQAST--RELKLTO--GILSFAGGLAELPK-----EAAARIL-REKGEVLOYSTTEYAPRAFVAEWIG----V-R-----RpeEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>pedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  ER-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>KeIcFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  EGIFRRLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p>
682	<p>2qlrA (425)</p> <p>2egyC (396)</p>	N	27.27	<p><b>TM-align: aliSize=341 (resi) RMSD=2.09 (Å)</b>  mnyarfitaasaarnpspirmttdilsrgpkmsmlagglpnpnmfipktav-----LTVEn-GKTIOEGEEMKRALQVNSAIPESLWIKOLOIkhPptIhyppsqqMDI CVTSSOOG CKFFMIINP DNIDEAS  -----kplswseafgkgagriqastirelkl1qrpg1lsfagglpapelIpkEEA-aEAAARILREKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>SITLISLHPLCNITINASDSSIVPISRDIISWkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  MAIAAFRLQPRFLTYPAGEPDLIAEEVK-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>KNITIAAKWITGLAFWHVAAGMIIKVKGINDKVEIcFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  AQMHLIREVPKEVRYTRKGMVVMELPKGLSAEGIFRRLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>SARST: aliSize=369 (resi) RMSD=12.83 (Å)</b>  m--NYARFITAAASAARNPSPIRMTDLSRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRA-----LOVPSAIPESLWIKOLqiklhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISRDIISWk  -kpISWSEAFGKGAGRIQAST--RELKLTO--GILSFAGGLAELPK-----EAAEAAARILrekevaLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>WkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  ER-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>KeINDVKITIEFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  PKLSAAGLFRRLLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>BLAST: aliSize=203 (resi) iden=29.04% (115/396) simi=51.26% (203/396)</b>  mnyarfitaasaarnp-----PFTIMTDLISRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRAALQVNSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISR  -----kplswseafgkgagriqastirelkl1qrpg1lsfagglpapelIpkEEA-aEAAARIL-REKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>DITISWkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  EVKKE-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>V--ITNDVKITIEFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  LpKLS--AGLFRRLLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>Proposed: aliSize=383 (resi) RMSD=1.78 (Å)</b>  --MNYARFITAAASAARNPSPIRMTDLSRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRAALQVNSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISRDIISWk  kpLSWSEAFGKGAGRIQAST--RELKLTO--GILSFAGGLAELPK-----EAAARIL-REKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>knqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  ER-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>eFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  RRLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p>
683	<p>2qlrA (425)</p> <p>2egyD (391)</p>	N	27.37	<p><b>TM-align: aliSize=341 (resi) RMSD=2.05 (Å)</b>  mnyarfitaasaarnpspirmttdilsrgpkmsmlagglpnpnmfipktav-----LTVEn-GKTIOEGEEMKRALQVNSAIPESLWIKOLOIkhPptIhyppsqqMDI CVTSSOOG CKFFMIINP DNIDEAS  -----kplswseafgkgagriqastirelkl1qrpg1lsfagglpapelIpkEEA-aEAAARILREKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>SITLISLHPLCNITINASDSSIVPISRDIISWkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  MAIAAFRLQPRFLTYPAGEPDLIAEEVK-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>KNITIAAKWITGLAFWHVAAGMIIKVKGINDKVEIcFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  AQMHLIREVPKEVRYTRKGMVVMELPKGLSAEGIFRRLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>SARST: aliSize=372 (resi) RMSD=13.61 (Å)</b>  m--NYARFITAAASAARNPSPIRMTDLSRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRA-----LOVPSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISRDIISWk  -kpISWSEAFGKGAGRIQAST--RELKLTO--GILSFAGGLAELPK-----EAAEAAARILrekevaLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>WkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  ER-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>DVKITIEFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  LSAAGLFRRLLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>BLAST: aliSize=203 (resi) iden=29.41% (115/391) simi=51.92% (203/391)</b>  mnyarfitaasaarnp-----PFTIMTDLISRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRAALQVNSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISR  -----kplswseafgkgagriqastirelkl1qrpg1lsfagglpapelIpkEEA-aEAAARIL-REKGEVLOYSTTEYAPRAFVAEWIG----V-R-----PEEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>SITISWkpedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  KKE-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>V--ITNDVKITIEFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  LpKLS--AGLFRRLLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p> <p><b>Proposed: aliSize=376 (resi) RMSD=1.67 (Å)</b>  --MNYARFITAAASAARNPSPIRMTDLSRGPKSMISIAAGLNNMPEKTAviIvenektiofEEMKRAALQVNSAIPESLWIKOLOIkhnpptIHYPSOgqmdI CVTSSOOG CKFFMIINP DNIDEASITLISLHPLCNITINASDSSIVPISRDIISWk  -kpISWSEAFGKGAGRIQAST--RELKLTO--GILSFAGGLAELPK-----EAAARIL-REKGEVLOYSTTEYAPRAFVAEWIG----V-R-----RpeEVLITISQOAJDLGKVFLEDESPVLEASMAIAAFRLQPRFLTYPAGEPDLIAEEVK</p> <p>pedaknpqkntPKITIVNGNPTNSLTSERKFTIYFIARKYDFIITIDPPIYFQNKFRVTFISMD--VDGRRADSES-LISGRIEGLTGPKPLIFRVLHIIVSTIPSTFNLMISQHeWgeeeMAHVDRIIDFSNO  ER-----RRELIISFQNPGLTPLPARRLLQMMERGLVYVVEDAAREIYGEARLSLFELAREAGYPGVYLGFSKVLSPRVAVAHPEALOKLVOAKGADITPMLNOMLVEHK-E---SERLERVRRVREK</p> <p>KeIcFKVKMGLMIFNAIYVDSAPSYPYAFSSASPFQMDVAFQVIAOLIIES-L  EGIFRRLEENAFVGGPFANGGGENTRLSYATLDRGIAEGVRRGRALGLIA</p>

684

N

11.64

**TM-align:** aliSize=295 (resi) RMSD=3.14 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktav-----IIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LS-----KNVSGNADEITVMMLEFD--R-SVFFPITS-CYRIFAKAVGAKF

NINVASesGIVpdSLrdITsRkpedaknpqkTPKFIYVPEngnNTSLTSERKKEIYEIARKYDFIIEDEPFIYFNKFRVPTFSMDVDGRVIRADSP--IISSSGLRIEITGPKPLIERVLIHOVSTHPSTFNLMISOLHewgEGMAHVDRVIDYSNOKDAIAADKWTGLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
LEVPILTK--LRI--PE--VN-V-----EGDVFIPNP--SNPCHVFE--EREK--ERILK--TGAFVALIEAVHEH-----GESY-VDFLKKYEVLAVIRTEKAFSAAOVIVYVASEKFDAYNRVRLP--FNVSYSIMFAKVA--D--HR-EIFERTKIVIEERERIKSLRE-MG

glaFHWVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
---YRITDSR--NIVVFM--EKEE--RL--HLRTRN--AVRSFR-----E-GVITIIGKRENDMILRELE--F----

**SARST:** aliSize=293 (resi) RMSD=6.62 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

NINVASesGIVpdSLrdITsRkpedaknpqkTPKFIYVPEngnNTSLTSERKKEIYEIARKYDFIIEDEPFIYFNKFRVPTFSMDVDGRVIRADSP--IISSSGLRIEITGPKPLIERVLIHOVSTHPSTFNLMISOLHewgEGMAHVDRVIDYSNOKDAIAADKWTGLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
KFLYPLTKDLRI-----PEVN-----VGGDVFIPNP--SNPCHVFE--EREK--ERILK--TGAFVALIEAVHEH-----GESYVDLKKYEVLAIVRTEKAFSAAOVIVYVASEKFDAYNRVRLP--FNVSYSIMFAKVA--D--HR-EIFERTKIVIEERERIKSLRE-MG

glaFHWVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
---NITDSR--NIVVFM--EKEE--RL--HLRTRN--AVRSFR-----E-GVITIIGKRENDMILRELE--F----

**BLAST:** aliSize=61 (resi) iden=10.15% (34/335) simi=18.21% (61/335)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

rayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF  
KFLYPLTKDLRI-----PEVN-----VGGDVFIPNP--SNPCHVFE--EREK--ERILK--TGAFVALIEAVHEH-----GESYVDLKKYEVLAIVRTEKAFSAAOVIVYVASEKFDAYNRVRLP--FNVSYSIMFAKVA--D--HR-EIFERTKIVIEERERIKSLRE-MG

GRVADSLTSISGLRIEITGPKPLIERVLIHOVSTHPSTFNLMISOLHewgEGMAHVDRVIDYSNOKDAIAADKWTGLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
LA--KTIKAFSLAAGVIVYVASEKFDAYNRVRLP--FNVSYSIMFAKVA--D--HR-EIFERTKIVIEERERIKSLRE-MG

vpaagmflwkvkgindvkeleekavkmgvlmpgnafyvdssapsylrasfssaspegmdvafvqlalikes1  
E-K--EK--RL--HLRTRN--AVRSFR-----E-GVITIIGKRENDMILRELE--F----

**Proposed:** aliSize=312 (resi) RMSD=2.69 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

wkpedaknpqkTPKFIYVPEngnNTSLTSERKKEIYEIARKYDFIIEDEPFIYFNKFRVPTFSMDVDGRVIRADSP--IISSSGLRIEITGPKPLIERVLIHOVSTHPSTFNLMISOLHewgEGMAHVDRVIDYSNOKDAIAADKWTGLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
VegDVVFIIPNP--SNPCHVFE--EREK--ERILK--TGAFVALIEAVHEH-----GESY-VDFLKKYEVLAVIRTEKAFSAAOVIVYVASEKFDAYNRVRLP--FNVSYSIMFAKVA--D--HR-EIFERTKIVIEERERIKSLRE-MG

Indvkeleekavkmgv----LMPGNafyvdssapsylrasfssaspegmdvafvqlalikes1  
E-K--EK--RL--HLRTRN--AVRSFR-----E-GVITIIGKRENDMILRELE--F----

685

N

25.63

**TM-align:** aliSize=341 (resi) RMSD=2.12 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktav-----IIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLISLHPLI--CNIN--AS--IIVP--SRDII--SRWkpedaknpqkTPKFIYVPEngnNTSLTSERKKEIYEIARKYDFIIEDEPFIYFNKFRVPTFSMDVDGRVIRADSP--IISSSGLRIEITGPKPLIERVLIHOVSTHPSTFNLMISOLHewgEGMAHVDRVIDYSNOKDAIAADKWTGLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
ATIAFRLOIPRFLTPAGEPDLIAEEVKER-----RRL--L--IISFONPTGLTPLPARRLLQVMMERGLVVDVDAAREYVGEALISLFEALAReaGYPGVYLSKSVLSPGLVA--VAHAPEALQKLQAKGAD--TPMLNMLVHE--K-E--SERLEARRVREKAO

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
MFLDREPKEVRYTRKGMVMMELPKGLSAGER--R--LEEN--AFV--GPFANG--GGENT--L--SYATLDreGIAEGVRRRGRALKGLLALV

**SARST:** aliSize=350 (resi) RMSD=11.60 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
EVRVTRKGMVMMELPKGLSAGER--R--LEEN--AFV--GPFANG--GGENT--L--SYATLDreGIAEGVRRRGRALKGLLALV

**BLAST:** aliSize=203 (resi) iden=29.19% (115/394) simi=51.52% (203/394)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
KLS--AGLFRRLLEEN--AFV--GPFANG--GGENT--L--SYATLDreGIAEGVRRRGRALKGLLALV

**Proposed:** aliSize=381 (resi) RMSD=1.90 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
KLS--AGLFRRLLEEN--AFV--GPFANG--GGENT--L--SYATLDreGIAEGVRRRGRALKGLLALV

686

N

28.15

**TM-align:** aliSize=352 (resi) RMSD=2.63 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktav-----IIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

GSN--OSIHP--CNIN--AS--IIVP--SRDII--SRWkpedaknpqkTPKFIYVPEngnNTSLTSERKKEIYEIARKYDFIIEDEPFIYFNKFRVPTFSMDVDGRVIRADSP--IISSSGLRIEITGPKPLIERVLIHOVSTHPSTFNLMISOLHewgEGMAHVDRVIDYSNOKDAIAADKWTGLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
S--IN--LAFEOQAKEGP--VND--MRV--LEEKIKEL--A--K--GOKV--LI--IITON--MTSM--R--AL--I--SYL--I--TAN--MRYE--G--D--VPLKAL--N--R--V--GTL--K--I--G--T--R--I--G--W--I--A--E--G--E--I--L--K--L--M--O--K--P--D--I--C--A--P--A--S--Y--A--L--E--Y--K--R--G--Y--E--K--V--H--L--E--G--A--L--G--K--E

OKAI--AAADKW--TGL--WHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
KRIM--R--LENH--LPN--EFTK--I--G--M--V--M--F--P--E--G--A--G--I--S--F--A--N--L--M--E--R--E--N--V--V--V--V--K--P--E--T--B--S--G--N--A--I--L--N--R--P--K--E--I--P--I--G--I--K--K--A--K--Y--E--K--F

**SARST:** aliSize=355 (resi) RMSD=8.93 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
MRE--E--V--V--V--V--K--P--E--T--B--S--G--N--A--I--L--N--R--P--K--E--I--P--I--G--I--K--K--A--K--Y--E--K--F

**BLAST:** aliSize=227 (resi) iden=32.84% (133/405) simi=56.05% (227/405)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
MRE--E--V--V--V--V--K--P--E--T--B--S--G--N--A--I--L--N--R--P--K--E--I--P--I--G--I--K--K--A--K--Y--E--K--F

**Proposed:** aliSize=385 (resi) RMSD=2.04 (Å)

mnyarfitaasaarnpspirtmtidilsrgpksmslaglppnmpfktavIIVENKTKIQFGEMMKRALQVSPSAGIPILSWIKOLOIKLhNpPtIhyppsqgqmdICVTSISOOQCKVFEMINPDGNIIDFPAIS  
-----hmnpdliaakrayyetekrdktylaInenppfpedL-----VDEVFRRLNSDALKRITD-SPDETEKLSYL-DT-DF--LSKNN-----VSGNADEITVMMLEFDRS----VFFPITS-CYRIFAKAVGAKF

TLAFWHVPAagMIVKVKGINdvkLIEFVAVGSLMIENAVYDSSAPSPYIASPSSASPQMDVAFQVlaQlikes1  
MRE--E--V--V--V--V--K--P--E--T--B--S--G--N--A--I--L--N--R--P--K--E--I--P--I--G--I--K--K--A--K--Y--E--K--F



690	<p>2r7hA (157)</p> <p>1s3zB (145)</p>	C	<p>18.62</p> <p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.41 (Å)  avaFRROVLPQDALLVRRVVEsTgFFTPPEADVAQELVDHhHACGYHFVFATEDDAGYCYGPTPA-----TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLKafYRagddkiiyrleva---  -MDIRQMNK-THLEHWGLRKLQ-LWP-GHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTSPE--NTISOKVHQALGHEETERVI-FYR-----krc</p> <p><b>SARST:</b> aliSize=130 (resi) RMSD=3.89 (Å)  avaFRROVLPQDALLVRRVVESTGFFTPPEADVAQELVDHhHACGYHFVFATEDDAGYCYG-----PTPA--TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLK-----afyragddkiiyrleva  ---mDIRQMNKTHLEHWGLRKLQWpGHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTS--PENTISOKVHQALGHEETERVI-FYRkrc-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=22.76% (33/145) simi=37.24% (54/145)  avafrqqvlpqdallvrrvestgiff-----PEADVVAQELVDHhHACGYHFVFATEDDDAGI--AG-YGTPATGtydlywIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLKafYR--agddkiiy  -----mDirqmnkthlehwgrlqklwpghPDDAHLAdgEELQADHLasfiAMADVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTS--PENTISOKVHQALGHEETERVI--FYRkrc-----  rleva  -----</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=2.17 (Å)  avaFRROVLPQDALLVRRVVEsTgFFTPPEADVAQELVDHhHACGYHFVFATEDDMAGYCYGPTPA-----TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLkafyragddkiiYRLEV-a  -MDIRQMNK-THLEHWGLRKLQ-LWP-GHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTSPE--NTISOKVHQALGHEETERVI-----FYRKRCC-</p>
691	<p>2r7hA (157)</p> <p>1s5kA (153)</p>	C	<p>15.69</p> <p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.57 (Å)  -----AVAFRRQVLPQDALLVRRVVEsTgFFTPPEADVAQELVDHhHACGYHFVFATEDDAGYCYGPTPA-----TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLKafYRagddkiiyrleva---  glvprgshMDIRQMNK-THLEHWGLRKLQ-LWPGHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTSPE--NTISOKVHQALGHEETERVI-FYR-----krc</p> <p><b>SARST:</b> aliSize=130 (resi) RMSD=3.81 (Å)  av-----AFRRQVLPQDALLVRRVVESTGFFTPPEADVAQELVDHhHACGYHFVFATEDDAGYCYG-----PTPA--TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLK-----afyragddkiiyrleva  --glvprgshMDIRQMNKTHLEHWGLRKLQWpGHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTSPE--NTISOKVHQALGHEETERVI-FYRkrc-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=21.57% (33/153) simi=35.29% (54/153)  avafrqqvlpqdallvrrvestgiff-----PEADVVAQELVDHhHACGYHFVFATEDDDAGI--AG-YGTPATGtydlywIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLKafYR--  -----glvprgshMDIRQMNKthlehwgrlqklwpghPDDAHLAdgEELQADHLasfiAMADVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTS--PENTISOKVHQALGHEETERVI--FYRkrc-----  agddkiiyrleva  -----</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=2.20 (Å)  -----AVAFRRQVLPQDALLVRRVVEsTgFFTPPEADVAQELVDHhHACGYHFVFATEDDMAGYCYGPTPA-----TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLKafyragddkiiYRLEV-a  glvprgshMDIRQMNK-THLEHWGLRKLQ-LWPGHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQLIAAQRWGTNKCCEMASDTSPE--NTISOKVHQALGHEETERVI-FYR-----RKRCC-----</p>
692	<p>2r7hA (157)</p> <p>1ufhA (155)</p>	C	<p>12.26</p> <p><b>TM-align:</b> aliSize=135 (resi) RMSD=3.49 (Å)  AVAFRRQVLPQDALLVRRVVEsTgFFTPPEADVAQELVDHhHACGYHFVFATEDDAGYCYGPTPA-----TEGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLKafYRagddkiiyrleva-  TlMLTPMQTEEFRSYLYTYT--KHyaEekvkagtwlpedaAQILSKQVFTDLPRLGLETPHHLWSLKLNEKIVWLIHAEpEHpQOEAFIDFGLYEPYRKGQYAKQALALDQAAASMGTRKLSLHVFA--HNQTARKLYEQTGFQETDV-VM---SKK-----1</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=5.82 (Å)  avafrqqvlpqdallvrrvestgiffTPPEADVAQELVDHhHAC-----GYHFVFATEDDDA--YACYGPTPAT-EGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVL-----kafyragddkiiyrleva  -----timltpmqteefrsylTYTtkHYAEKVKAGTWLPEDAQLLSKQVFTDLPRLGletpHHHLWSLKLNEKIVWLIHAEpEHpQOEAFIDFGLYEPYRKGQYAKQALALDQAAASMGTRKLSLHVFA--FAHNQTARKLYEQTGFQETDVVmskkl-----</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=21.94% (34/155) simi=32.26% (50/155)  avafrqqvlpqdallvrrvestgiffTPPEADVAQELVDHhHAC-----YHFVFA--T-PAEG-TYD--YwiavAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVL-----kafy  -----timltpmqteefrsylTYTtkHYAEKVKAGTWLPEDAQLLSKQVFTDLPRLGletpHHHLWSLKLNEKIVWLIHAEpEHpQOEAFIDFGLYEPYRKGQYAKQALALDQAAASMGTRKLSLHVFA--FAHNQTARKLYEQTGFQETDVVmskkl-----  agddkiiyrleva  -----</p> <p><b>Proposed:</b> aliSize=127 (resi) RMSD=2.52 (Å)  avAFRRQVLPQDALLVRRVVEsTgFFTPPEADVAQELVDHhHACGYHFVFATEDDMAGYACYGPTPAT-EGTYDYWIAVAPHROHSLGRALLAEVVDVRLTGGLLFAETSgIRKYAPTRRFYERAGFSAEAVLkafyragddkiiYRLEV-a  --tIMLTPMQTEEFRSYTYTtkHYAEKVKAGTWLPEDAQLLSKQVFTDLPRLGletpHHHLWSLKLNEKIVWLIHAEpEHpQOEAFIDFGLYEPYRKGQYAKQALALDQAAASMGTRKLSLHVFA--FAHNQTARKLYEQTGFQETDV-----VMSKKL--</p>

693	<p>2r7hA (157)</p> <p>lufhB (154)</p>	C	<p>12.99</p> <p><b>TM-align:</b> aliSize=135 (resi) RMSD=3.13 (Å)  a-VAFRRqVLPDALLVRRVVEstgFFTP-----E-EADVAQE-LVDEHLHACGYHFVFATE--DDAGYACYGPT-PATEGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva---  -IMLTP-MQTEEFRSYLTYT--KHYAEEKvkagtwlpedaQLLSKQVFTD-LPRGLETPHHLWLSLKLnek-IVGWLWIHAEPHQEAFIDFGLYEPYRGGYAKQALALDQAAASMIIRKSLHVFA--HNQTARKLYEQTGFQETDVMV---SKK-----1</p> <p><b>SARST:</b> aliSize=126 (resi) RMSD=5.82 (Å)  avafrrqvl-----PODALLVRRVVEST--FFTPPEADVAQELVDEHLHAC-----GYHFVFATEDDDAG-YACYGPTPATE--GTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVL---kafyragddkiiyrleva  -----imltpmqteefrsylTYTtkHYAEKVKAFTWLPEDAQLLSKQVFTD-LPRGLETPHHLWLSLKLnekIvGWLWIHAEPHQEAFIDFGLYEPYRGGYAKQALALDQAAASMIIRKSLHVFA--FAHNQTARKLYEQTGFQETDVMVmskkl-----</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=22.08% (34/154) simi=32.47% (50/154)  avafrrqvlpqdallvrrvest-----FFTPPEADVAQELVDEHLHAC-----YHFVFA--TEDDAGYACYG--T-ATSG-TYD--GywiavAPHQhSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVL---kafyragddkiiyrleva  -----imltpmqteefrsyltytthyaeeekvkaFTWLPEDAQLLSKQVFTD-LPRGLETPHHLWS1k1NEK-IVGWLWIHAEPHQEAFIDFGLYEPYRGGYAKQALALDQAAASMIIRKSLHVFAHNQTA--RKLVEQTGFQETDVMVmskkl-----</p> <p><b>Proposed:</b> aliSize=131 (resi) RMSD=2.45 (Å)  a-VAFRRqVLPDALLVRRVVEstgFFTP-----PE-EaD-VaQE--L-vdHmHACGYHFVFATE--DDAGYACYGPT-PATEGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva  -IMLTP-MQTEEFRSYLTYT--KHYAEEKvkagtwlpedaQLLSKQVFTD-LPRGLETPHHLWLSLKLnek-IVGWLWIHAEPHQEAFIDFGLYEPYRGGYAKQALALDQAAASMIIRKSLHVFA--HNQTARKLYEQTGFQETDVMVmskkl-----</p>
694	<p>2r7hA (157)</p> <p>2fe7B (166)</p>	C	<p>15.92</p> <p><b>TM-align:</b> aliSize=138 (resi) RMSD=2.80 (Å)  -----AVAFRRqVLPDALLVRRVVEST-GFF--TPPEADVAQELVDEHLHACGYHFVFATEDDDAGYACYGPTPATE--EGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva-----  enlyfqghmTLEIRP-AVPAEAQELAFITELadyEraRHVVTDVEGIRRSLEAEGSPTRALMCLSEGRPIGYAVFFYSYStwlgRNGIYEDLYTPEYRGVAGRRRLRELAREAVANDCGREWSVLD-W-NQPAIDFYSICALPQDEWVRYR-----ldgealrkmae</p> <p><b>SARST:</b> aliSize=124 (resi) RMSD=4.48 (Å)  a-----VAFRROVLPDALLVRRVVE-----STGFFTPPEADVAQELVDEHLHACGYHFVFATEDDDAGYACYGPTPATE--EGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva  -enlyfqghmTLEIRP-AVPAEAQELAFITELadyEraRHVVTDVEGIRRSLEAEGSPTRALMCLSEGRPIGYAVFFYSYStwlgRNGIYEDLYTPEYRGVAGRRRLRELAREAVANDCGREWSVLD-W-NQPAIDFYSICALPQDEWVRYRldgealrkmae-----</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=18.06% (28/157) simi=21.29% (33/157)  avafrrqvlpqdallvrrvestgfftpeadvaqelvdhhlhac-----enlyfqghmTLEIRP-AVPAEAQELAFITELadyEraRHVVTDVEGIRRSLEAEGSPTRALMCLSEGRPIGYAVFFYSYStwlgRNGIYEDLYTPEYRGVAGRRRLRELAREAVANDCGREWSVLD-W-NQPAIDFYSICALPQDEWVRYRldgealrkmae-----</p> <p><b>Proposed:</b> aliSize=142 (resi) RMSD=2.19 (Å)  -----AVAFRRqVLPDALLVRRVVEST-GFF-TPPEADVAQELVDEHLHACGYHFVFATEDDDAGYACYGPTPATE--EGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva  enlyfqghmTLEIRP-AVPAEAQELAFITELadyEraRHVVTDVEGIRRSLEAEGSPTRALMCLSEGRPIGYAVFFYSYStwlgRNGIYEDLYTPEYRGVAGRRRLRELAREAVANDCGREWSVLD-W-NQPAIDFYSICALPQDEWVRYRldgealrkmae-----</p>
695	<p>2r7hA (157)</p> <p>2vbqA (147)</p>	C	<p>16.33</p> <p><b>TM-align:</b> aliSize=136 (resi) RMSD=2.64 (Å)  -AVAFRRqVLPDALLVRRVVEST--FFTPPEADVAQELVDEHLHACGYHFVFATEDDDAGYACYGPTPATE--EGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva---  sHMDIRQMNKTHL-EHWGRLRQ--LWPGHPDHAHLADGEEITLQADHLASFIAMAGVATGFADASIRHDyngcdSSPVVFEGLFVLSFRQRVAKQITAAVQRWGTNKCCEMASDTSPE--NTISQKVHQAALGFEETERVITFY-----krc</p> <p><b>SARST:</b> aliSize=131 (resi) RMSD=3.70 (Å)  a-VAFRROVLPDALLVRRVVEST--FFTPPEADVAQELVDEHLHACGYHFVFATEDDDAGYACYGPTPATE--EGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva  -sHMDIRQMNKTHL-EHWGRLRQ--LWPGHPDHAHLADGEEITLQADHLASFIAMAGVATGFADASIRHDyngcdSSPVVFEGLFVLSFRQRVAKQITAAVQRWGTNKCCEMASDTSPE--PENTISQKVHQAALGFEETERVITFY-----krc</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=22.45% (33/147) simi=36.73% (54/147)  avafrrqvlpqdallvrrvestgfft-----shmdiRQMNKTHL-EHWGRLRQ--LWPGHPDHAHLADGEEITLQADHLASFIAMAGVATGFADASIRHDyngcdSSPVVFEGLFVLSFRQRVAKQITAAVQRWGTNKCCEMASDTSPE--PENTISQKVHQAALGFEETERVITFY-----krc</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=2.27 (Å)  -AVAFRRqVLPDALLVRRVVEST--FFTPPEADVAQELVDEHLHACGYHFVFATEDDDAGYACYGPTPATE--EGTYDLYWIAVAPHROHSLGRALLAEVVDVRLTGGRLFAETSGIRKYAPTRRFYERAGFSAEAVLKAFYAGDdkiiyrleva  sHMDIRQMNKTHL-EHWGRLRQ--LWPGHPDHAHLADGEEITLQADHLASFIAMAGVATGFADASIRHDyngcdSSPVVFEGLFVLSFRQRVAKQITAAVQRWGTNKCCEMASDTSPE--PENTISQKVHQAALGFEETERVITFY-----krc</p>



696	<p>2r7hA (157)</p> <p>2vbqB (144)</p>	C	16.67	<p><b>TM-align:</b> aliSize=133 (resi) RMSD=2.43 (Å)  avAFRRVLPDALLVRRVVEsTgFFTPPEADVAQELVDHhHhCGYHFVFAEDDDAGYCYGPTPA-----TEGTYDYLWIAAAPHROHSLGRALEAVHDVRLTGRLLFAETSgIrKYAPTRRFYERAGFSAEAVLKafYRagddkiIyrleVa---  --DIRQMNK-TLHEHWGLRKLQ-LWP-GHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQIIAAVQRWGTNKCCEMASDTSPE--NTISQKVHQALGFEETERVI-FYR-----krc</p> <p><b>SARST:</b> aliSize=127 (resi) RMSD=3.80 (Å)  avafrr---VLPDALLVRRVVESTGF-FTPPEADVAQELVDHhHhCGYHFVFAEDDDAGYCYG-----PTPA--TEGTYDYLWIAAAPHROHSLGRALEAVHDVRLTGRLLFAETSgIrKYAPTRRFYERAGFSAEAVLK-----afyragddkiIyrleVa  -----dirQMNKTHLEHWGLRKLQ-LWP-GHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQIIAAVQRWGTNKCCEMASDTSPE--NTISQKVHQALGFEETERVI-fyrkrc-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=22.92% (33/144) simi=37.50% (54/144)  avafrrqvlpqdallvrrvestgiff-----TEEDVVA--OELVD-ETH--HhCGYHFVFAEDDDAGYCYG-----AG-YGPTPATGtydlywIAAAPHROHSLGRALEAVHDVRLTGRLLFAETSgIrKYAPTRRFYERAGFSAEAVLKafYR---agddkiIyr  -----dirqmnkthlehwgrlqkqwpghPDDHLAGDEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQIIAAVQRWGTNKCCEMASDTSPE--NTISQKVHQALGFEETERVI--FYRkrc-----  leva  ----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.20 (Å)  avAFRRVLPDALLVRRVVEsTgFFTPPEADVAQELVDHhHhCGYHFVFAEDDDAGYCYGPTPA-----TEGTYDYLWIAAAPHROHSLGRALEAVHDVRLTGRLLFAETSgIrKYAPTRRFYERAGFSAEAVLKafyragddKIYRLEVa  --DIRQMNK-TLHEHWGLRKLQ-LWP-GHPDdAHLADGEEILQADHLASFIAMAGVAIGFADASIRHDYvngcdSSPVVFEGLFVLSFRQRVAKQIIAAVQRWGTNKCCEMASDTSPE--NTISQKVHQALGFEETERVI-----IFYRKRc--</p>
697	<p>2rbbA (129)</p> <p>ljc5D (145)</p>	C	12.40	<p><b>TM-align:</b> aliSize=63 (resi) RMSD=2.95 (Å)  nadlsyvniftrdivasafyqOVFGFqeiiesirspifrgldt-----GKScigfnahEayelqlaqfsetsgi-----KELLNFDVtkeAVDKLVPVAIAAATLIK-AYETYYHWYQAVL  -----EDLFI-----cidhvayacpdadeaskyyqetfgwhelhrenpeqgvveimmapaaklteHMT-----qyvmapIndestvakwlakhnragLHHMAWRV---DIDAVSATLRERVQLLYDEKLGTTGGRINFM</p> <p>L--DPERNVFRINNVL--  HpkSGKGVLIELTOYPkn</p> <p><b>SARST:</b> aliSize=116 (resi) RMSD=12.78 (Å)  na-----DLSY-NIFTR-IVAMSAFYQOVFCFOEIESiRSP-----IFRGLDTG-----KSCIGFNH-----AHAYELOLOAFSETSGIKFLNFDVtkeAVDKLVPVAIAAATLIK-AYETYYHWYQAVLDPD--RNVFRINNV---1  --edlficIDHAYACPaDEASKYQETFCWHELHthreeNPEQGV-VEIMMAPaaklteHMTQVQVmapIndestvakwlakhnragLH---HMAWRVDDIDAV---SATLRERVQLLYDEKLGTTGGRINFMHPKsgkGVLIELTOYPkn-</p> <p><b>BLAST:</b> aliSize=13 (resi) iden=6.35% (8/129) simi=10.32% (13/129)  nadlsyvniftrdiv-----ASAFYQOVFCFOEIESIRSP-----IFRGLDTG-----KSCIGFNH-----AHAYELOLOAFSETSGIKFLNFDVtkeAVDKLVPVAIAAATLIK-AYETYYHWYQAVLDPD--RNVFRINNV---1  --edlficIDHAYACPaDEASKYQETFCWHELHthreeNPEQGV-VEIMMAPaaklteHMTQVQVmapIndestvakwlakhnragLH---HMAWRVDDIDAV---SATLRERVQLLYDEKLGTTGGRINFMHPKsgkGVLIELTOYPkn-  sgikflnfdvdtkeavdklvpvaiaagatlkapetyyhwyqavlldpernvfrinnvl  -----</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=1.86 (Å)  -NMA-DLSY-NIFTR-IVAMSAFYQOVFCFOEIESiRSP-----IFRGLDTG-----KSCIGFNH-----AHAYELOLOAFSETSGIKFLNFDVtkeAVDKLVPVAIAAATLIK-AYETYYHWYQAVLDPD--RNVFRINNV---1  edlficIDHAYACPaDEASKYQETFCWHELHthreeNPEQGV-VEIMMAPaaklteHMTQVQVmapIndestvakwlakhnragLH---HMAWRVDDIDAV---SATLRERVQLLYDEKLGTTGGRINFMHPKsgkGVLIELTOYPkn</p>
698	<p>2vi7A (163)</p> <p>lqsmD (152)</p>	C	17.11	<p><b>TM-align:</b> aliSize=140 (resi) RMSD=3.30 (Å)  ---TIRLERYSRHVECLTAYNDPAVARQVLOMPYOSVEORRKRHSDDDRLLILVALH--OGDVTCASLEOPRIR-R-SHSGSfGmGVAWA--WOGKVCVSRLLGELLIIADnWMNLRRVELTVYTDNAPALAYRFFETEgemrdyavrdgrfvdvysmarlrr---  sednITVRFVTENDKEGWQRWKS--YQDFYEVSPDLDLDFNFRFLDPNIKMWAAVAVESSSEKILGMINFFNMTTWDFKDIYINDLYdenSRVKGAGGKIQFVYDEAD-KLGTSPSYWCTDESNRHQLYVVKVYKAPKILYKR-----kgy</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=4.93 (Å)  t---TIRLERYSRHVECLTAYNDPAVARQVLOMPYOSVEORRKRHSDDDRLLILVALH--OGDVTCASLEOPRIR-R-SHSGSfGmGVAWA--WOGKVCVSRLLGELLIIADnWMNLRRVELTVYTDNAPALAYRFFETEgemrdyavrdgrfvdvysmarlrr---  --sednITVRFVTENDKEGWQRWKS--YQDFYEVSPDLDLDFNFRFLDPNIKMWAAVAVESSSEKILGMINFFNMTTWDFKDIYINDLYdenSRVKGAGGKIQFVYDEAD-KLGTSPSYWCTDESNRHQLYVVKVYKAPKILYKR-----kgy</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=10.53% (16/152) simi=15.79% (24/152)  tirle ryserhvegltal yndpavarqvlompysveqrrkrhdsddrllilvalhagdvgisaseqhpri rrrshsgsigmgvavawqg-----sednitrvtendkegwqrlwksyqdfyevsfpddlddfnfrfldpnikmwaavavesssekiigminffnhmttwdfkdi yindlydensrv  VCSRLGELLIIADN-----M--NLRVVEITVYTD--NAPALAYRFFETEgemrdyavrdgrfvdvysmarlrr  GAGGKIQFVYDEADKlgtpsvyCTdeSNHRAQLVVKVYKAPKILYKR--GY-----</p> <p><b>Proposed:</b> aliSize=135 (resi) RMSD=2.40 (Å)  ---TIRLERYSRHVECLTAYNDPAVARQVLOMPYOSVEORRKRHSDDDRLLILVALH--OGDVTCASLEOPRIR-R-SHSGSfGmGVAWA--WOGKVCVSRLLGELLIIADnWMNLRRVELTVYTDNAPALAYRFFETEgemrdyavrdgrfvdvysmarlrr---  sednITVRFVTENDKEGWQRWKS--YQDFYEVSPDLDLDFNFRFLDPNIKMWAAVAVESSSEKILGMINFFNMTTWDFKDIYINDLYdenSRVKGAGGKIQFVYDEAD-KLGTSPSYWCTDESNRHQLYVVKVYKAPKILYKR-----kgy</p>

699	<p>2vi7A (163)</p> <p>1s5kA (153)</p>	C	<p>15.03</p> <p>TM-align: aliSize=135 (resi) RMSD=2.82 (Å)  -----TIRLERYSERHVEGLTALYNDpavarqvlqmpyosveORRKRRLHDS-DDRLLIILVALHOVDVIGSASLEOHPRIR---RSHSGSIGMVAVA--WOGKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEGEMRDYavrdgrfvdvysmarlrr-----  glvprgshMDIROMNKTILHWRGIRKQ---L---WPGHPD-DAHLADGEEIILQADHLASFIAMADVAIGFADASIRHDYVngcdSPVVFLF-LFVLPsFRQRGAKOLIAAVQRWGT-NKGCREMASDTSPEPTISQKVHQAALGFEETERVIFVY-----rkrcc</p> <p>SARST: aliSize=133 (resi) RMSD=3.36 (Å)  t-----TIRLERYSERHVEGLTALYNDpavarqvlqmpyosveORRKRRLHDS-DDRLLIILVALHOVDVIGSASLEOHPRIRRS-HSG--SIGMVA--AWOGKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEGEMR-----dyavrdgrfvdvysmarlrr  -glvprgshMDIROMNKTILHWRGIRKQ---L---WPGHPD-DAHLADGEEIILQADHLASFIAMADVAIGFADASIRHDYVngcdSPVVFLF-LFVLPsFRQRGAKOLIAAVQRWGT-NKGCREMASDTSPEPTISQKVHQAALGFEETERVIFVYrkrcc-----</p> <p>BLAST: aliSize=48 (resi) iden=18.30% (28/153) simi=31.37% (48/153)  tirleryserhvegltalypavraqvlqmpyqsveqr-----RRRHHSSD-DDRLLIILVALHOVDVIGSASLEOHPRIRSHSGSI-----GMGVAWOGKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFET-----  -----glvprgshMDIROMNKTILHWRGIRKQ---L---WPGHPD-DAHLADGEEIILQADHLASFIAMADVAIGFADASIRHDYVngcdSPVVFLF-LFVLPsFRQRGAKOLIAAVQRWGT-NKGCREMASDTSPEPTISQKVHQAALGFEETERVIFVYrkrcc-----</p> <p>---gmrdivavrdgrfvdvysmarlrr  krcc-----</p> <p>Proposed: aliSize=137 (resi) RMSD=2.27 (Å)  -----TIRLERYSERHVEGLTALYNDpavarqvlqmpyosveORRKRRLHDS-DDRLLIILVALHOVDVIGSASLEOHPRIR---RSHSGSIGMVAVA--WOGKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEGEMRDYavrdgrfvdvysmarlrr  glvprgshMDIROMNKTILHWRGIRKQ---L---WPGHPD-DAHLADGEEIILQADHLASFIAMADVAIGFADASIRHDYVngcdSPVVFLF-LFVLPsFRQRGAKOLIAAVQRWGT-NKGCREMASDTSPEPTISQKVHQAALGFEETERVIFVYrkrcc-----</p>
700	<p>2vi7A (163)</p> <p>2fe7B (166)</p>	C	<p>20.86</p> <p>TM-align: aliSize=140 (resi) RMSD=3.08 (Å)  -----TIRLERYSERHVEGLTALYNDpavarOVLO-MPYOSVEORRKRRLHSDDDRLLIILVALHOVDVIGSASLEOHPRIR--RSHSGSIGMVAVAW--OQKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEGEMRDYavrdgrfvdvysmarlrr-----  enlyfqghmtLEIRPAVPADAEQILAFIIE--LADYERARhEVVTDVEGIRRSFAEGSP-PTRALMCLSEGRPIGYAVFFYS-YSTWlGRNGIYLE-DLYTPeyRQVGAARLRLAREAV-ANDCGRLWSLDWQPAIDFYRSICALPQDEWVRYR-----ldgealrkmae</p> <p>SARST: aliSize=135 (resi) RMSD=3.20 (Å)  t-----TIRLERYSERHVEGLTALYNDpavarOVLO-MPYOSVEORRKRRLHSDDDRLLIILVALHOVDVIGSASLEOHPRIRSHSGSIGMVAVAW--OQKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFET-----egmrdivavrdgrfvdvysma  -enlyfqghmtLEIRPAVPADAEQILAFIIE--LADYERARhEVVTDVEGIRRSFAEGSP-PTRALMCLSEGRPIGYAVFFYSYSTWlGRNGIYLE-DLYTPeyRQVGAARLRLAREAVAN-DCGRLWSLDWQPAIDFYRSICALPQDEWVRYRldgealrkmae-----</p> <p>rlrr  ----</p> <p>BLAST: aliSize=32 (resi) iden=14.11% (23/163) simi=19.63% (32/163)  tirleryserhvegltalypavraqvlqmpyqsveqrkrhlhdsddrllililvalhagdvigsasleqhpriirshsgsigmg-----enlyfqghmtleirpavpadaeqilafiieladyerarhevvtdegiirslfaegsptalmclsegrpigavffysystwlgngiyledlyVAWOGKVG  -----SRILGELL-DIADnWMNLRVELTYTDNAPALALYRKFGEFETEGEMRDYAVRDG-----fvdvysmarlrr  -----RRLRLAREAVAN-DCGRLWSLDWQPAIDFYRSICALPQDEWVRYRL-Dgealrkmae-----</p> <p>Proposed: aliSize=138 (resi) RMSD=2.29 (Å)  -----TIRLERYSERHVEGLTALYNDpavarOVLO-MPYOSVEORRKRRLHSDDDRLLIILVALHOVDVIGSASLEOHPRIR--RSHSGSIGMVAVAW--OQKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEG--emrdvavrdGRFVDVYS-----marlrr  enlyfqghmtLEIRPAVPADAEQILAFIIE--LADYERARhEVVTDVEGIRRSFAEGSP-PTRALMCLSEGRPIGYAVFFYS-Y-STWlGRNGIYLE-DLYTPeyRQVGAARLRLAREAV-ANDCGRLWSLDWQPAIDFYRSICALPQDEW-----VRRLDGEalrkmae-----</p>
701	<p>2vi7A (163)</p> <p>2g3tA (169)</p>	C	<p>11.66</p> <p>TM-align: aliSize=141 (resi) RMSD=3.26 (Å)  -----TIRLERYSERHVEGLTALYND--PavarOVLO-MPYOSVEORRKRRLHSDDDRLLIILVALHO-----GDVIGSASLEOHPRIRRS-HSGSIGMVAVAW--OQKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEG--MRDYavrdgrfvdvysmarlrr-----  KfVIRPATAADCSDLRLIKELAKYEYMEEQVILTEKDLLEDGFGEHP-FYHCLVAEVPkehwtpegHSIVGFAMYFTYDPWIGKLLYLE-DFFVMSdyRCFTIGSEILKNISOVAM-RCRCSSMHFLAEWNEPSINFKRRASDLSseegwrlfkidkeyllkmatee</p> <p>SARST: aliSize=128 (resi) RMSD=6.19 (Å)  ti--RLERYSERHVEGLTALYNDPVAROVLO-MPYOSVEORRKRRLHSDDDRLLIILVALH-----OQD-VIGSASLEOHprirrrshSGSIGMVAVAW-----OQKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETE-----gmrdivavrd  --kfvIRPATAADCSDLRLIKELAKYEYMEEQVILTEKDLLEDGFGEHPFYHCLVAEVPkehwtpegHSIVGFAMYFTYDPWIGKLLYLE-DFFVMSdyRCFTIGSEILKNISOVAM-RCRCSSMHFLAEWNEPSINFKRRASDLSseegwrlfkidkeyllkmatee-----</p> <p>grfvdvysmarlrr  -----</p> <p>BLAST: aliSize=12 (resi) iden=3.68% (6/163) simi=7.36% (12/163)  tirleryserhvegltalypavraqvlqmpyqsveqrkrhlhdsddrllililvalhagdvigsasleqhpriirshsgsigmgvavawqgkvgvsgllgelladiadnwmnlrrvelt-----kfvirpataadcsdiirlikelakyeymeeqviltekdllledgfgehpfyhclvaevpkehwtpegshivg  -----VTDNAPALALYRKFGEFET-----gmrdivavrdgrfvdvysmarlrr  famyyftypwigkllYLEDFFVMSDYRCFTIGSEILKNISOVAM-RCRCSSMHFLAEWNEPSINFKRRASDLSseegwrlfkidkeyllkmatee-----</p> <p>Proposed: aliSize=143 (resi) RMSD=2.51 (Å)  -----TIRLERYSERHVEGLTALYND-PAVAR--qvlqMPY-OSVEORRKRRLHSDDDRLLIILVALHO-----GDVIGSASLEOHpr-iR-RSHSGSIGMVAVAW--OQKVGSRILGELLDIADnWMNLRVELTYTDNAPALALYRKFGEFETEG--emrdvavrdGRFVDVYS---MA-R-LR--r  KfVIRPATAADCSDLRLIKELAKYEYme---EQVILTEKDLLEDGFGEHPf--YHCLVAEVPkehwtpegHSIVGFAMYFTYDPWIGKLLYLE-DFFVMSdyRCFTIGSEILKNISOVAM-RCRCSSMHFLAEWNEPSINFKRRASDLSseegwrlfkidkeyllkmatee-----</p>

702	<p>2vi7A (163)</p> <hr/> <p>2vxkA (165)</p>	C	19.02	<p><b>TM-align:</b> aliSize=134 (resi) RMSD=2.25 (Å)  entplf s p s l i s p d v l a v l p a D Y T I R P L C R S D Y K r g Y L D V L R --- V L T --- T V G D I N e c W N S R Y E W I r A R s E Y Y L L V V C D g E G R I V T G S L V V E R K F I h s L G M V g H I E - D I A V E k g Q G K K L G L R I I Q A L D Y V A E - K V G C Y K T I D C S E A N --- E G F Y I C G F K R A G L E M - A H Y ---</p> <p>lrr- ---y</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=5.35 (Å)  t-----I R L E R Y S E R H V E - L T A L Y N d p a V A R q v l q M P Y O S V - - - - - V E O R R K R L H D S d d R L L I L V A L H - O G D V I S A S I E O H P R I R R S H S G S - I G M G V A V - - A W G K G V G S R L L G E L D I A D n W M N L R R V E I T V Y T D n a P A L A L Y R F F E T E G e m r d y a v r d g r f v d v y S M A  -entplf s p s l i s p d v l a v l p a d Y T I R P L C R S D - - - - - Y K R G Y L D V L R L I T V G D I n e e q w N S R Y E W I R A R S - - - D E Y Y L L V V C D g E G R I V T G S L V V E R K F I H S L G M V g H I E D I A V E k G Q G K K L G L R I I Q A L D Y V A E K - V G C Y K T I D C S E - - - A N E G F Y I C G F K R A G - - - - - L E M A</p> <p>R L - r r H y - -</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=15.95% (26/163) simi=26.38% (43/163)  t i r l e r y s e r h v e g l t a l y n d p a v a r q v l q m p y s v e q r r k r l h d s d - - - - - D R L I L V A L H O G D V I S A S I E O H P R I r r S H S - S I G M G V A V A W G K G V G S R L L G E L L D I A D N W M N L R R V E I T V Y T  -----entplf s p s l i s p d v l a v l p a d y t i r p l c r s d y k r g y l d v l r v l t t v g d i n e e q w n s r y e w i r a r s E Y Y L V V C D G E G R I V T G S L V V E R K F - - I H S L G M V G H I E D I A V E K G Q G K K L G L R I I Q A L D Y V A E K V G C Y K T I L D</p> <p>D N A P A L A L Y R F F E T E G - E M R D Y - a v r d g r f v d v y s m a r l r r  C S E A N E G F Y I C G F K R A G I E M A H Y - - - - -</p> <p><b>Proposed:</b> aliSize=134 (resi) RMSD=1.85 (Å)  entplf s p s l i s p d v l a v l p a D Y T I R P L C R S D Y K r g Y L D V L R --- V L T --- T V G D I N e c W N S R Y E W I r A R s E Y Y L L V V C D g E G R I V T G S L V V E R K F I h s L G M V g H I E - D I A V E k g Q G K K L G L R I I Q A L D Y V A E - K V G C Y K T I D C S E A N - - - E G F Y I C G F K R A G - - - - - L E M A H Y</p> <p>R - l r r Y c - -</p>
703	<p>5croA (61)</p> <hr/> <p>1d1mB (65)</p>	C	91.80	<p><b>TM-align:</b> aliSize=59 (resi) RMSD=1.51 (Å)  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K P F P S n - - - - -  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K D G E - - v k p w p s</p> <p><b>SARST:</b> aliSize=55 (resi) RMSD=0.75 (Å)  m - E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K - - - - - p f p s  - m E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K d g e v k p w p s - - - -</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=98.33% (59/61) simi=100.00% (60/61)  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E - - - - - E V K P F P S  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E v k d g e v k p w p s</p> <p><b>Proposed:</b> aliSize=61 (resi) RMSD=0.93 (Å)  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K - - - - P F P S N  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K d g e v k p w p s</p>
704	<p>5croA (61)</p> <hr/> <p>2cw1A (65)</p>	C	19.67	<p><b>TM-align:</b> aliSize=52 (resi) RMSD=2.21 (Å)  m e q - - R I T - L L D Y A M R F G Q T K T A K D - L g V Y S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K p f p s n - - - - -  - - - m r K K L d L K K F V E D K N E Y A A R A I G - L S K L I E E V L K R L P V Y V E T N K D N I K V Y I T Q d g i t q p f p p</p> <p><b>SARST:</b> aliSize=54 (resi) RMSD=2.48 (Å)  m e - - Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E V K - - - - - p f p s  - - m r K K L d L K K F V E D K N E Y A A R A L G L S K L I E E V L K R L P V Y V E T N K D N I K V Y I T Q d g i t q p f p p - - - -</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=30.00% (18/61) simi=53.33% (32/61)  M E Q R I T L K D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S - - - V A E E - - - V K P F P - s  M R K K L d L K K F V E D K N E Y A A R A L G L S K L I E E V L K R L P V Y V E T N K D N I k v y I T Q d g i T Q P F P p -</p> <p><b>Proposed:</b> aliSize=58 (resi) RMSD=2.03 (Å)  m e q - - R I T - L L D Y A M R F G Q T K T A K D L G V Y Q S A I N K A I H A G R K I F L T I N A D G S V Y A E E - - - - V K P F P S N  - - - m r K K L d L K K F V E D K N E Y A A R A L G L S K L I E E V L K R L P V Y V E T N K D N I K V Y I T q d g i T Q P F P P</p>

705	<p>5croA (61)</p> <hr/> <p>2orcA (71)</p>	C	93.44	<p><b>TM-align:</b> aliSize=58 (resi) RMSD=1.68 (Å)  MEQRI TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV VKPFpsn-----  MEQRI TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV VKDG---ev kpfpsnkktta</p> <p><b>SARST:</b> aliSize=50 (resi) RMSD=1.19 (Å)  meqri-----TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV-----kpfps  -----meqri TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV VKdgev kpfpsnkktta-----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=100.00% (60/61) simi=100.00% (60/61)  MEQRI TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV VK-----PFPS-----  MEQRI TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV VKdgev kPFPSnkktta</p> <p><b>Proposed:</b> aliSize=61 (resi) RMSD=1.49 (Å)  MEQRI TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV-----KPFPSN-----  MEQRI TLKDYAMRFGQTKTAKDLGVYQSA INKA IHAGRK IFLT INADGSVYAEV VKdgev kPFPSNKktta</p>
706	<p>lgheA (170)</p> <hr/> <p>lqsmD (152)</p>	C	13.16	<p><b>TM-align:</b> aliSize=135 (resi) RMSD=2.63 (Å)  -----AQLRRVtaeSFaHYRHGLAOLLFETVHGgASvgFadLDQqAYAWCDGLKADT-A-AGSLLWVA---EDdNVLASAOLSLCOKP-NGLNRAEVOKI-VLPSARGRLGROL-DEVEOVVHKRGLLHLDTEAGS-VAEAFYSALaYTRV-GEIPGycatpdgrlhptaiyfktl---  sedniTVRFV---TE-NDKEWQRLWKSQD-FYE--V--SF-P-DDLDLDFNFGRFIDpNIKMWAAVAVessSE-KIIGMINFNHMTTWDFKDKIYINDLYDENSRVKGAGKLIQFYDEADLGTSPVYWCIDESHRAQLLYVKV-GYKAPKIYKR-----kgy</p> <p><b>SARST:</b> aliSize=133 (resi) RMSD=4.63 (Å)  a-----AQLRRVtaeSFaHYRHGLAOLLFETVHGgASvgFadLDQqAYAWCDGLKADT-A-AGSLLWVA---DDNVLASAOLSLCOKP-NGLNRAEV--OKI-VLPSARGRLGROL-DEVEOVVHKRGLLHLDTEAGSVAEAFYSALaytrVCELPG-----ycatpdgrlhptaiyfktl  -sedniTVRFV---TE-NDKEWQRLWKSQD-FYE--V--SF-P-DDLDLDFNFGRFIDpNIKMWAAVAVessSEKIIGMINFNHMTTWDFKDKIYINDLYDENSRVKGAGKLIQFYDEADLGTSPVYWCIDESHRAQLLYVKV---VYKAPKIYKR-----kgy</p> <p><b>BLAST:</b> aliSize=5 (resi) iden=3.29% (5/152) simi=3.29% (5/152)  aqlrrvtaesfahyrhglqallfetvhggasvgfadldqqayawcdglkadiaagsllwvvaeddnvlasaqlslcqqknglnra-----  -----sednitrvtendkegwqrlwksyqdfyevsfpddlddfnfgfldpnikmwaavavesssekiigminfnhmttwdfdkkiyindlydensrvkgaggkl</p> <p>-----VOKI-VLPS-----argrglgrqldeveqvavkhkrghlhdteagsvaeafysalaytrvgeIPGycatpdgrlhptaiyfktl  iqfvydEADKLGTPsvywcidesnhraqllvkvgykaKIYKR-----</p> <p><b>Proposed:</b> aliSize=137 (resi) RMSD=2.04 (Å)  -----AQLRRVtaeSFaHYRHGLAOLLFETVHGgASvgFadLDQqAYAWCDGLKADT-A-AGSLLWVA---DdNVLASAOLSLCqKpNg---LNRAEVOKI-VLPSARGRLGROL-DEVEOVVHKRGLLHLDTEAGS-VAEAFYSALaYTRVgELPGyCATPdG-rlhptaiyfktla  sedniTVRFV---TE-NDKEWQRLWKSQD-F-Y--EV--Sf---P-DDLDLDFNFGRFIDpNIKMWAAVAVessSE-KIIGMINFNH-M--TtwdfKDKIYINDLYDENSRVKGAGKLIQFYDEADLGTSPVYWCIDESHRAQLLYVKV---VYKAPKIYKR-----kgy</p>
707	<p>lk53A (72)</p> <hr/> <p>2hj1A (77)</p>	C	8.33	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.39 (Å)  mhhhhhhamEEVTKANLIaNAStQTAEfKGTf-EKaT-SEYA--YADTLKkdNGE---WTVDVADKgytlnikfag-----  -----nQINIEIAYA--PERYYLKSfQVDEgIT-VQT-ITqSGILSQFP-EIDlstNKIGIFSR-----pikltdvlkegdrieiyrpll</p> <p><b>SARST:</b> aliSize=60 (resi) RMSD=9.10 (Å)  mhhhhhhamEEVTKANLIaNAStQTAEfKGTf-EKaT-SEYA--YADTLKkdNGE---WTVDVADKgytlnikfag-----  -----nQINIEIAYA--PERYYLKSfQVdegIT-VQT-ITQSGILSQFP-EIDlstNKIGIFSRpikltdvlkegdrieiyrpll--</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=6.94% (5/72) simi=12.50% (9/72)  mhhhhhhamEEVTKANLIaNAStQTAEfKGTfEkatse-----AYAYADTLKkdNGEWTVD-----vADKgytlnikfag  -----nqinieiaYAFPERYYLKS--fQVdegitvqtaitqsgilsqfpeidlstnkigifsrpikltdvlkegdrieiyrpll-----</p> <p><b>Proposed:</b> aliSize=60 (resi) RMSD=2.36 (Å)  mhhhhhhamEEVTKANLIaNAStQTAEfKGTfEkatse-----AYAYADTLKkdNGE---WTVDVAD-----KGY-TLNIFKfag-  -----nQINIEIAYA--PERYYLKSfQVDEgIT-VQT-ITqSGILSQFP-EIDlstNKIGIFSRpikltdvlkegdrieiyrpll</p>

708	<p>2c5jA (82)</p> <hr/> <p>1mi7R (103)</p>	N  3.66	<p><b>TM-align:</b> aliSize=56 (resi)      RMSD=2.53 (Å)  dpfqvkvkdtkeqln-----RInn--Yitrhntae--EEIQDILKDVEETIVDLDRSIVVMKRDENEDVSGREAQVKNIKQQLDALKIRF--D-----  -----qqspysaamaeqrhqewlrfvdl1knayqnd1hlp--1IN-----1mLTPDEREALGTRVRIVEELLRGEISQRELKNELGAGIATITRGSNSLKAA-PVe1Rqwleev11</p> <p><b>SARST:</b> aliSize=80 (resi)      RMSD=9.26 (Å)  d-----PFQVVKDTKEQLNRIN---NYITRHNTAEEETQDIKDVVEETIVDLDRSIVVMKRDENEDVSGREAQVKNIKQQL---DALKLRF----d  -qqspysaamaeQRHQEWLRFVDLKNAYqnd1hlp1n1m1--TPDEREALGTRVRIVEELLRGEISQRELKNELGAGIATITRGSNSLKaaPvELRQWLEEv11-</p> <p><b>BLAST:</b> aliSize=19 (resi)      iden=10.98% (9/82)      simi=23.17% (19/82)  dpfqvkvkdtkeqlnrinnyitrhntaeeeiq-----DILKDVVEETIVDLDRSIVVMKRDENEDVSGREAQVKNIKQQL-----kqqldalklrfd  -----qqspysaamaeqrhqewlrfvdl1knayqnd1hlp1n1m1--TPDEREALGTRVRIVEELLRGEISQRELKNELGAGIATITRGSNSLKaaPvELRQWLEEv11-----</p> <p><b>Proposed:</b> aliSize=77 (resi)      RMSD=1.64 (Å)  --DPFQVVKDTKEQLNRINNYITRHNTA-----eeEQDILKDVVEETIVDLDRSIVVMKRDENEDVSGREAQVKNIKQQLDALKL-rfD-----  qqSPYSAAMAEQRHQEWLRFVDLKNAYQnd1hlp1n1m1--TPDEREALGTRVRIVEELLRGEISQRELKNELGAGIATITRGSNSLKAAp--Ve1Rqwleev11</p>
709	<p>1pucA (101)</p> <hr/> <p>1qb3A (113)</p>	C  71.29	<p><b>TM-align:</b> aliSize=86 (resi)      RMSD=1.91 (Å)  sksgv---PRLTASERERLEPFIIDQIHYSPRYADDEYRHYVMLPKAMLKAIPTDYFNPEITGTLRIIQEEWRGLGITQSLGWEMVEHVpephi-----LLFkrekd-----  -----hafqgKLTDOERARVLEFQDSIHYSPRYSDNYEYRHYVMLPKAMLKVIPSDFNSSEVGTLRILITDEWRGLGITQSLGWEHTECHapephiLLF-----krplnyeaelraataaaq</p> <p><b>SARST:</b> aliSize=96 (resi)      RMSD=5.89 (Å)  sksgv---PRLTASERERLEPFIIDQIHYSPRYADDEYRHYVMLPKAMLKAIPTDYFNPEITGTLRIIQEEWRGLGITQSLGWEMVEHVPEPHILLFKRE-----kd  ---hafqgKLTDOERARVLEFQDSIHYSPRYSDNYEYRHYVMLPKAMLKVIPSDFNSSEVGTLRILITDEWRGLGITQSLGWEHTECHAPEPHILLFKRPlnyeaelraataaaq---</p> <p><b>BLAST:</b> aliSize=76 (resi)      iden=71.29% (72/101)      simi=75.25% (76/101)  sksgvp-----PRLTASERERLEPFIIDQIHYSPRYADDEYRHYVMLPKAMLKAIPTDYFNPEITGTLRIIQEEWRGLGITQSLGWEMVEHVPEPHILLFKR-----ekd  -----hafqgKLTDOERARVLEFQDSIHYSPRYSDNYEYRHYVMLPKAMLKVIPSDFNSSEVGTLRILITDEWRGLGITQSLGWEHTECHAPEPHILLFKRPlnyeaelraataaaq---</p> <p><b>Proposed:</b> aliSize=96 (resi)      RMSD=0.73 (Å)  sksgv---PRLTASERERLEPFIIDQIHYSPRYADDEYRHYVMLPKAMLKAIPTDYFNPEITGTLRIIQEEWRGLGITQSLGWEMVEHVPEPHILLFKREKD-----  -----hafqgKLTDOERARVLEFQDSIHYSPRYSDNYEYRHYVMLPKAMLKVIPSDFNSSEVGTLRILITDEWRGLGITQSLGWEHTECHAPEPHILLFKRPlnyeaelraataaaq</p>
710	<p>3bcoA (124)</p> <hr/> <p>3bcmA (119)</p>	N  100.00	<p><b>TM-align:</b> aliSize=103 (resi)      RMSD=0.35 (Å)  kesaaakferqhmdsgnsass-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnsSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=117 (resi)      RMSD=9.47 (Å)  k-ESAAAKFERQHMDSGnsassSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDAS-v  -kESAAAKFERQHMDSGS-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=119 (resi)      iden=100.00% (119/119)      simi=100.00% (119/119)  KESAAAKFERQHMDSGnsassSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=119 (resi)      RMSD=0.33 (Å)  KESAAAKFERQHMDSGnsassSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTNQYQSKSTMRTDCRETGSSKYPNCAKYTTQVEKHIIVACGGKPSVPVHFDASV</p>

711	<p>3bcoA (124)</p> <hr/> <p>ljs0A (124)</p>	N	74.19	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.56 (Å)  kesaaakferqhmdsgnsas-----SSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----  -----ketaakferqhmdsstsaSSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV-----</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=11.07 (Å)  k-ESAAAKFERQHMDsgnsASSS-----SNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kETAAAKFERQHMD----SSTSaassSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=109 (resi) iden=82.26% (102/124) simi=87.90% (109/124)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=0.93 (Å)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGK-----psvpvhfdasv  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYpyvpvhfdasv-----</p>
712	<p>3bcoA (124)</p> <hr/> <p>ljs0A (124)</p>	C	69.35	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.56 (Å)  kesaaakferqhmdsgnsas-----SSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----  -----ketaakferqhmdsstsaSSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV-----</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=11.07 (Å)  k-ESAAAKFERQHMDsgnsASSS-----SNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kETAAAKFERQHMD----SSTSaassSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=109 (resi) iden=82.26% (102/124) simi=87.90% (109/124)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=0.83 (Å)  kesaaakferqhmdsgnsas-----SSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaakferqhmdsstsaSSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSIIDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV</p>
713	<p>3bcoA (124)</p> <hr/> <p>lr3mB (122)</p>	N	96.72	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.99 (Å)  kesaaakferqhmdsgnsas-----SSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnsPSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.52 (Å)  k-ESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kESAAAKFERQHMDSG--NSPSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=120 (resi) iden=97.54% (119/122) simi=98.36% (120/122)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSPSS--NYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.55 (Å)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGN-SP-SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

714	<p>3bcoA (124)</p> <hr/> <p>1a2wA (124)</p>	N	82.26	<p>TM-align: aliSize=104 (resi) RMSD=0.72 (Å)  kesaaakferqhmdsgnsas-----SSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaaakferqhmdsstaaSSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV</p> <p>SARST: aliSize=120 (resi) RMSD=12.05 (Å)  k-ESAAAKFERQHMDsgNSASSS--SNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kETAAAKFERQHMD--SSTSAASSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASVv-</p> <p>BLAST: aliSize=109 (resi) iden=82.26% (102/124) simi=87.90% (109/124)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=1.01 (Å)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV</p>
715	<p>3bcoA (124)</p> <hr/> <p>1h8xA (125)</p>	N	74.19	<p>TM-align: aliSize=104 (resi) RMSD=1.40 (Å)  kesaaakferqhmdsgnsas-----SSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -----kesaaakferqhmdsgnspSSSYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEINPYVPVHFDASVve</p> <p>SARST: aliSize=120 (resi) RMSD=11.51 (Å)  k-ESAAAKFERQHMD--SGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kESAAAKFERQHMDsgNSPSSSYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEINPYVPVHFDASVve-</p> <p>BLAST: aliSize=105 (resi) iden=76.61% (95/124) simi=84.68% (105/124)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  KESAAAKFERQHMDSGNSPSSSYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEINPYVPVHFDASVve</p> <p>Proposed: aliSize=123 (resi) RMSD=1.09 (Å)  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  KESAAAKFERQHMDSGNSPSSSYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEINPYVPVHFDASVve</p>
716	<p>1a2wA (124)</p> <hr/> <p>11baA (124)</p>	N	80.65	<p>TM-align: aliSize=104 (resi) RMSD=0.77 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=12.23 (Å)  k-ETAAAKFERQHMDSSTSAASS--SNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV--v  -kESAAAKFERQHMD--SGNSPSSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASVv-</p> <p>BLAST: aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=123 (resi) RMSD=0.86 (Å)  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNICYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

717	3b8iA (283)	C	26.15	<p><b>TM-align: aliSize=249 (resi) RMSD=2.12 (Å)</b>  ra-ShHeLRAMr-AALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELIDVDVAVIORTLAYOEAGADGICLVC  --sLS-PGKAfr-NAITKENPLQIVGTINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICSPLLVDADIIFGSSAFNARTVKSIMKAGAGLHIEDQVGAKRcGHPNKAIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLDAAIIRAQAYVEAGAEMLFPE</p> <p>GVRDFAHLEAIAEHLHIPLMLVTY---NPqRDDARLARLGRVVVNGHAAYFAIKATYDCLREERGAvasdlTASELskkvtfneevqawardyvevk-----  AITELMYRQFDVAOVVILANITefgATfTTDELRSAHVAALYPLSAFRMNRAAEHVYNVLRQEG-----tqksvidtmqtrnelysesinyyqeekldnlfa</p> <p><b>SARST: aliSize=271 (resi) RMSD=11.39 (Å)</b>  rashh---ELRAMFRALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ- ---AOFGrksTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AEL-IDVDVAVIORTLAYOEAGADGICLVC  -----s1hSPGKAfr-NAITKENPLQIVGTINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICSPLLVDADIIFGSSAFNARTVKSIMKAGAGLHIEDQVGAKrcgHRPN---KAIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLDAAIIRAQAYVEAGAEMLFPE</p> <p>DGTCLVGVRDFAHLFAIAEHLHIPLML-VYGNPOLR-DDARLARLGRVVV---NGHAAYFAIKATYDCLREERGA---VASDLTASELSKKYTFPEEYOAWARDY---mevk  EMLFPEAITELMYRQFDVAOVVILANITefGATPLfTTDELRSAHVAALYpLSAFRAMNRAAEHVYNVLRQEGtqksVIDTMQTRNELYESINYQYQEKLDNLfa----</p> <p><b>BLAST: aliSize=144 (resi) iden=30.63% (87/283) simi=50.70% (144/283)</b>  rashHeLRAMr-AALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELID-VDAVVIORTLAYOEAGADGICLVC  --sLSPGKAfr-NAITKENPLQIVGTINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICSPLLVDADIIFGSSAFNARTVKSIMKAGAGLHIEDQVGAKRCghPnKAIIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLDAAIIRAQAYVEAGAEMLFPE</p> <p>GVRDFAHLEAIAEHLHIPLM--LVTYINPOL---RDDARLARLGRVV-VNGHAAYFAIKATYDCREER---RGAVASDLTASELSKKYTFPEEYO-----awardyvevk  AITELMYRQFDVAOVVILanITefGATPlftTELSELVAALYpLSAFRAMNRAAEHVYNVLRQEGtqksVIDTMQTRNELYESINY-YYQEKldnlfa-----</p> <p><b>Proposed: aliSize=268 (resi) RMSD=1.91 (Å)</b>  ra--ShHeLRAMr-AALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ- ---FGrKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELIDVDVAVIORTLAYOEAGADG  --s1H-S-PGKAfr-NAITKENPLQIVGTINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICSPLLVDADIIFGSSAFNARTVKSIMKAGAGLHIEDQV-GNkrcgHR-PNKAIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLDAAIIRAQAYVEAGAEM</p> <p>ICLVGVRDFAHLFAIAEHLHIPLMLVTY---NPqRDDARLARLGRVVVNGHAAYFAIKATYDCLREERGA---avasdlTASELSKkyTFPEEYQAWARDYM--V-K---  LPPEAITELMYRQFDVAOVVILANITefgATfTTDELRSAHVAALYPLSAFRMNRAAEHVYNVLRQegtg-----KVIDTM--QTRNELYESINYQYQEKLDnlfa</p>
	1oqfA (290)			

718	3b8iA (283)	C	25.83	<p><b>TM-align: aliSize=238 (resi) RMSD=1.99 (Å)</b>  rashHeLRAMr-AALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELIDVDVAVIORTLAYOEAGADGICLVC  --sLSPGKAfr-NAITKENPLQIVGAINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAAALHIEDQV-----AIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLEALDRAQAYVDAGADMLFPEAI</p> <p>RDFAHLEAIAEHLHIPLMLVTY---NPqRDDARLARLGRVVVNGHAAYFAIKATYDCLREERGAvasdlTASELskkvtfneevqawardyvevk-----  TELSMYRRFDVAOVVILANITefgATPlfTTDELRSAHVAALYPLSAFRMNRAAEKVYTVLRQEG-----tqknvidimqtrnelysesinyyqfeekl</p> <p><b>SARST: aliSize=260 (resi) RMSD=9.31 (Å)</b>  rashh-ELRAMFRALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AE-LIDVDVAVIORTLAYOEAGADGICLVG  -----sPGKAfr-NAITKENPLQIVGAINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAAALHIEDQ-----VAIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLEALDRAQAYVDAGADMLFPEAI</p> <p>VRFDAHLFAIAEHLHIPLMLVTY-GNPOLR-DDARLARLGRVVVNGHAAYFAIKATYDCLREER---GA---VASDLTASELSKKYTFPEEYQAW-ardymevk  ITELSMYRRFDVAOVVILANITefGATPlfTTDELRSAHVAALYPLSAFRMNRAAEKVYTVLRQEGtqknVIDIMQTRNELYESINYQFEKl-----</p> <p><b>BLAST: aliSize=135 (resi) iden=31.00% (84/271) simi=49.82% (135/271)</b>  rashhelram-----RALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELID-VDAVVIORTLAYOEAGADGICLVG  -----sPQAfr-NAITKENPLQIVGAINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAAALHIEDQ-----IVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLEALDRAQAYVDAGADM</p> <p>ICLVGVRDFAHLFAIAEHLHIPLM--LVTYINPOL---RDDARLARLGRVV-VNGHAAYFAIKATYDCREER---RGAVASDLTASELSK---YTFPEE-yqawardyvevk  LPPEAITELSMYRRFDVAOVVILanITefGATPlfTDELSELVAALYpLSAFRAMNRAAEKVYTVLRQEGtqKNVIDIMQTRNELYESINYQFEKl-----</p> <p><b>Proposed: aliSize=255 (resi) RMSD=1.63 (Å)</b>  rashHeLRAMr-AALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELIDVDVAVIORTLAYOEAGADGICLVC  --sLSPGKAfr-NAITKENPLQIVGAINANHLLAQRAYQAIYISGGVAAGSGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAAALHIEDQ-----AIVSKEMMDRIAAVDAKTDFDFVMARTDLaVEGLEALDRAQAYVDAGADMLFPEAI</p> <p>GVRDFAHLEAIAEHLHIPLMLVTY---NPqLRR-DDARLARLGRVVVNGHAAYFAIKATYDCLREERGA---avasdlTASELSKkyTFPEEYQAWARDYMVX-  AITELSMYRRFDVAOVVILANITefgatPL-FTTDELRSAL-HVAALYPLSAFRMNRAAEKVYTVLRQegtg-----KNVIDIM-QTRNELYESINYQFEKl</p>
	1o5qA (271)			

719	3b8iA (283)	C	23.67	<p><b>TM-align: aliSize=244 (resi) RMSD=2.47 (Å)</b>  rashHeLRAMr-AALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELIDVDVAVIORTLAYOEAGADGICLVC  ---K--TTmhrLIEEHGSVLMMPG-QVALSAVVEKTGHAAFVSYSVSAAAMGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAGLHIEDQV-----cghmRGKAVVPAEHALKIAAREAIGSDFFLVARTDaRAPHGLEGIRANLYKEAGADATFV</p> <p>VGVRDFAHLFAIAEHLHIPLMLVTY---NPqRDDARLARLGRVVVNGHAAYFAIKATYDCLREERGAvasdlTASELskkvtfneevqawardyvevk-----  EAPANVDELKEVSATKGLRANMIeggkTPHTPEEFKEMFHLIAHSLTAVYATARALVNIMKILKEG-----ttrddlqmatfsefnelisleswemeskfk</p> <p><b>SARST: aliSize=271 (resi) RMSD=11.18 (Å)</b>  rashhelr--AMFRALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AE-ELIDVDVAVIORTLAYOEAGADGICLVC  -----ktmhrLIEEHGSVLMMPG-QVALSAVVEKTGHAAFVSYSVSAAAMGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAGLHIEDQ-----cghmRGKAVVPAEHALKIAAREAIGSDFFLVARTDaRAPHGLEGIRANLYKEAGADATFV</p> <p>VGVRDFAHLFAIAEHLHIPLMLVT-YNPO-QRDDARLARLGRVVV---NGHAAYFAIKATYDCLREERGAVASD---LTASELSKKYTFPEEYOAWARDY-vevk  EAPANVDELKEVSATKGLRANMIeggkTPHTPEEFKEMFHLIAHSLTAVYATARALVNIMKILKEGtTRDDLdQMATFSEFNELISLESWEMESKfk---</p> <p><b>BLAST: aliSize=120 (resi) iden=27.46% (78/283) simi=42.25% (120/283)</b>  rashhelramfralldssrcyhtas-----ALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ-FGPKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AEL-IDVDVAVIORTLAYOEAGADGICLVC  -----ktmhrLIEEHGSVLMMPG-QVALSAVVEKTGHAAFVSYSVSAAAMGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAGLHIEDQ-----cghmRGKAVVPAEHALKIAAREAIGSDFFLVARTDaRAPHGLEGIRANLYKEAGADATFV</p> <p>ORTLAYOEAGADGICLVC---VGVRDFAHLFAIAEHLHIPLMLVTYINPOLR-DDARLARLGRVVVNGHAAYFAIKATYDCLREER---RGAVASDL---TASELSKKYTFPEEYO-----awardyvevk  RRANLYKEAGADATFVEAPANDELKEVSATKGLRANMIeggkTPHTPEEFKEMFHLIAHSLTAVYATARALVNIMKILKEGtTRDDLdQMATFSEFNELISLESWEMESKfk-----</p> <p><b>Proposed: aliSize=260 (resi) RMSD=1.95 (Å)</b>  rashhelramfralldssrcyhtas-----ALDSSRCYHTASVDFPMSrRIADLFEFCGIIGSVASLQVAAAPDFALILSEFVEOATRIGRVARLPIVADADHICYN-ALNVMRTVVELERAGIAALITIEDITLPAQ- ---qfgrKSTDLICVEFGVGKIRAALAEARVDEPALTIIARTN-AELIDVDVAVIORTLAYOEAGADGICLVC  -----kTTmhrLIEEHGSVLMMPG-QVALSAVVEKTGHAAFVSYSVSAAAMGLPDLGISLDDVLDIIRIRTDICPFLVDADIIFGSSAFNARTVKSIAKAGAGLHIEDQ-----GKAVVPAEHALKIAAREAIGSDFFLVARTDaRAPHGLEGIRANLYKEAGAD</p> <p>VGICLVGVRDFAHLFAIAEHLHIPLMLVTY---NPqRDDARLARLGRVVVNGHAAYFAIKATYDCLREERGA-----avasdlTASELSKKYTFPEEYQAWARDYMevk  DATFVEAPANVDELKEVSATKGLRANMIeggkTPHTPEEFKEMFHLIAHSLTAVYATARALVNIMKILKEGttrddlq-----MATFSEFNELISLESWEMESKfk--K--</p>
	1zlpA (284)			





723	<p>1k51A (72)</p> <p>2hj1A (77)</p>	C	4.17	<p><b>TM-align:</b> aliSize=50 (resi) RMSD=2.45 (Å)  mhhhhhhaMeEVTIKANLIaNGSTQTAEEFKG-TFEKaT-SEaYA--YADT-LKkdNGE---WTVdVADkAYtlnikfag-----  -----N-QINTEIAYA--PERYYLKSFOVdegIT-VqTA-ITqSGILSQFP--EIDlStNKIGIFSRPI-----k1tdv1kEgdrieiyrp11</p> <p><b>SARST:</b> aliSize=60 (resi) RMSD=9.14 (Å)  mhhhhhame-EVTIKANLIaNGSTQTAEEFKG---GTFEKATSE--AYAYADTLKkdNGEWTVDVADKA-----YTLNKF---ag  -----nQINTEIAYA--PERYYLKSFOVdegITVQTITITOSGILSQFP--EIDlStNKIGIFSRPIk1tdv1kEgdrieiyrp11--</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=6.94% (5/72) simi=12.50% (9/72)  mhhhhhameevtikanlifangstqtaefkgtfekats-----AYAYADTLKkdNGEWTVD-----vADkAYtlnikfag  -----nqinieiaYAFPERYYLKS--FOVdegitvqtaitqsgilsqfpeidlStnkigifsrpik1tdv1kEgdrieiyrp11-----</p> <p><b>Proposed:</b> aliSize=60 (resi) RMSD=2.30 (Å)  mhhhhhhaMeEVTIKANLIaNGSTQTAEEFKGTFEK-aT-SEaYA-YADTLKkdNGE---WTVdVADK-----AYTLNKFAG--  -----N-QINTEIAYA--PERYYLKSFOVDEGIT-VqTAITQSGILSQFP--EIDlStNKIGIFSRPIk1tdv1kEGDRIEiYRP11</p>
724	<p>1k52A (72)</p> <p>2hj1A (77)</p>	C	6.94	<p><b>TM-align:</b> aliSize=49 (resi) RMSD=2.38 (Å)  mhhhhhhamEEVTIKANLIaNGSTQTAEEFKGTF-EKaT-SEaYA--YADTLKkdNGE---WTVdVADkgytlnikfag-----  -----NQINTEIAYA--PERYYLKSFOVDEgIT-VqTA-ITqSGILSQFP-EIDlStNKIGIFSR-----pik1tdv1kEgdrieiyrp11</p> <p><b>SARST:</b> aliSize=59 (resi) RMSD=8.76 (Å)  mhhhhhame-EVTIKANLIaNGSTQTAEEFKG---TFEKATSEAYAYADTLK---KdNGEWTVD-----VADkGYTLNKF---ag  -----nQINTEIAYA--PERYYLKSFOVdegITVQTITITOSGILSQFP--EIDlStNKIGIFSRPIk1tdv1kEgdrieiyrp11--</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=6.94% (5/72) simi=12.50% (9/72)  mhhhhhameevtikanlifangstqtaefkgtfekats-----AYAYADTLKkdNGEWTVD-----vADkgytlnikfag  -----nqinieiaYAFPERYYLKS--FOVdegitvqtaitqsgilsqfpeidlStnkigifsrpik1tdv1kEgdrieiyrp11-----</p> <p><b>Proposed:</b> aliSize=59 (resi) RMSD=2.21 (Å)  mhhhhhhamEEVTIKANLIaNGSTQTAEEFKGTFEK-aTSEaYA--YADTLKkdNGE---WTVdVADK-----Ggytlnikfag--  -----NQINTEIAYA--PERYYLKSFOVDEGIT-VQTITITqSGILSQFP--EIDlStNKIGIFSRPIk1tdv1kEGDRIEiYRP11</p>
725	<p>1mo1A (87)</p> <p>1y50A (87)</p>	N	24.14	<p><b>TM-align:</b> aliSize=42 (resi) RMSD=2.38 (Å)  mvqqkvevr1kt-----GLQARPAALFVQENRFTSDVFLKDGKKVNAKST-GL-SLAVStgtevtliaggedeqaeklaayvqeevlq-----  -----aektfkvvsdSGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSmVMSLGIPIKATIKITAEAAEAAMALDIDLAKELAE---</p> <p><b>SARST:</b> aliSize=80 (resi) RMSD=15.72 (Å)  mv-QQKVEVRLKTGLQARPAALFVQENRFTSDVFLKDGKKVNAKST--IGLSLAVSTTEVTILIQEED--EQALEKLAAYVQEE--vlq  --aEKTfKvVSDSGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSmGVMSLGIPIKATIKITAEAAEAAMALDIDLAKELAE---</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=35.29% (30/87) simi=55.29% (47/87)  mvqqkvevr1kt-----TGLQARPAALFVQENRFTSDVFLKDGKKVNAKST-GL-SLAVSTTEVTILIQEED--EQALEKLAAYVQEE--vlq  -----aektfkvvsdSGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSmVMSLGIPIKATIKITAEAAEAAMALDIDLAKELAE---</p> <p><b>Proposed:</b> aliSize=52 (resi) RMSD=1.57 (Å)  mVQKVEVRL-KT-gIQARPAALFVQENRFTSDVFLKDGKKVNAKSTIMGLMSLA-V-----stgtevtliaggedeqaeklaayvqeevlq  --AEKTFKvVSDSGI--HARPATILVQTASKWNSEIQLEYNGKTVNLKSMGVMSLGIPIKATIKITAEAAEAAMALDIDLAKELAE---</p>

726	<p>1mo1A (87)</p> <hr/> <p>1y50A (87)</p>	C	31.03	<p><b>TM-align:</b> aliSize=42 (resi) RMSD=2.38 (Å)  mvqqkvevrlkt-----GLQARPAALFVQENRFTSDVFLKDGKKNVAKSI--SL-SLAVStgtevtliaggedeqaeklaayvqeevlq-----  -----aektfkvvsdsGIHARPATILVCTASKWNSEIQLEYNGKTVNLKSIImVmSLGIP-----kгатiki taegadaaeamaaltdtlakeglae</p> <p><b>SARST:</b> aliSize=80 (resi) RMSD=15.72 (Å)  mv-QQKVEVRLKTLQARPAALFVQENRFTSDVFLKDGKKNVAKSI--IGLSLAVSTGTEVTLI AQTEI--EQEAL EKL AAYVQEE--vlq  --aEKTfKvVSDSGIHARPATILVCTASKWNSEIQLEYNGKTVNLKSIImGVM SLGIPKGATIKITAEADaaAMAALTDTLAKEGLae---</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=35.29% (30/87) simi=55.29% (47/87)  mvqqkvevrlk-----TGLQARPAALFVQENRFTSDVFLKDGKKNVAKSI--LSLAVSTGTEVTLI AQTEI EQEAL EKL AAYVQEEV--q  -----aektfkvvsdsGIHARPATILVCTASKWNSEIQLEYNGKTVNLKSIImVmSLGIPKGATIKITAEADAAEAMAAALTDTLAKEGLae-</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=1.63 (Å)  mvqqkvevrlktg-----LQARPAALFVQENRFTSDVFLKDGKKNVAKSIIMGLSL-aVSTGTEVTLI AQTEI EQEAL EKL AAYVqEEV----lq  -----aektfkvvsdsgIHARPATILVCTASKWNSEIQLEYNGKTVNLKSIIMGLSLg-IPKGATIKITAEADAAEAMAAALTDTL-AK Eglae--</p>
727	<p>3bcmA (119)</p> <hr/> <p>1r5cA (124)</p>	N	98.32	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=0.41 (Å)  kesaaakferqhmdsg-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspsSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=9.65 (Å)  k-SAAAKFERQHMDSGS-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v  -kSAAAKFERQHMDSGnspsSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v</p> <p><b>BLAST:</b> aliSize=118 (resi) iden=98.32% (117/119) simi=99.16% (118/119)  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnspsSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=0.39 (Å)  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnspsSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
728	<p>3bcmA (119)</p> <hr/> <p>1js0A (124)</p>	C	83.19	<p><b>TM-align:</b> aliSize=110 (resi) RMSD=1.41 (Å)  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KETAAAKFERQHMDSsTsaaSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNICYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVAC EGNPY-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=6.59 (Å)  k-SAAAKFERQHMD-----SGSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v  -kTAAAKFERQHMDsTsaaSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNICYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVAC EGNPYVPVHFDASV -v</p> <p><b>BLAST:</b> aliSize=105 (resi) iden=83.19% (99/119) simi=88.24% (105/119)  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KETAAAKFERQHMDSsTsaaSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNICYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVAC EGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=119 (resi) RMSD=0.59 (Å)  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTNICYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KETAAAKFERQHMDSsTsaaSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNICYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVAC EGNPYVPVHFDASV</p>

729	<p>3bcmA (119)</p> <hr/> <p>11bgA (124)</p>	N	98.32	<p>TM-align: aliSize=103 (resi) RMSD=0.42 (Å)  kesaaakferqhmds g-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmds gnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=117 (resi) RMSD=9.73 (Å)  k-ESAAAKFERQHMDSGS-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kESAAAKFERQHMDSGnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS v-</p> <p>BLAST: aliSize=118 (resi) iden=98.32% (117/119) simi=99.16% (118/119)  KESAAAKFERQHMDSG-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.42 (Å)  KESAAAKFERQHMDSG-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
730	<p>3bcmA (119)</p> <hr/> <p>1tq9A (124)</p>	N	96.64	<p>TM-align: aliSize=101 (resi) RMSD=0.42 (Å)  kesaaakferqhmds g-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmds gnsps sS SNYCN LMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=115 (resi) RMSD=11.28 (Å)  k-ESAAAKFERQHMDSGS-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kESAAAKFERQHMDSGnsps sS SNYCN LMMR--KMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS v-</p> <p>BLAST: aliSize=116 (resi) iden=96.64% (115/119) simi=97.48% (116/119)  KESAAAKFERQHMDSG-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnsps sS SNYCN LMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.41 (Å)  KESAAAKFERQHMDSG-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnsps sS SNYCN LMMYYRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
731	<p>3bcmA (119)</p> <hr/> <p>1r5dA (124)</p>	N	98.32	<p>TM-align: aliSize=103 (resi) RMSD=0.47 (Å)  kesaaakferqhmds g-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmds gnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=117 (resi) RMSD=9.67 (Å)  k-ESAAAKFERQHMDSGS-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kESAAAKFERQHMDSGnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS v-</p> <p>BLAST: aliSize=118 (resi) iden=98.32% (117/119) simi=99.16% (118/119)  KESAAAKFERQHMDSG-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.44 (Å)  KESAAAKFERQHMDSG-----S SNYCN QMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKD GOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnsps sS SNYCN LMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>

732	<p>3bcmA (119)</p> <hr/> <p>1a2wA (124)</p>	N	83.19	<p>TM-align: aliSize=103 (resi) RMSD=0.51 (Å)  kesaaakferqhmdsg-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaaakferqhmdsstsaasSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV</p> <p>SARST: aliSize=117 (resi) RMSD=14.11 (Å)  k-ESAAAKFERQHMD---SGSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kETAAAKFERQHMDsstsaASSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV-v</p> <p>BLAST: aliSize=105 (resi) iden=83.19% (99/119) simi=88.24% (105/119)  KESAAAKFERQHMDSG----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSStsaasSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.58 (Å)  KESAAAKFERQHMDS-G----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSstsaasSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYOSYSTMSITDCRETGSSSKYPNCAYKTTQANKHIIIVACEGNYVPVHFDASV</p>
733	<p>3bcmA (119)</p> <hr/> <p>11baA (124)</p>	N	98.32	<p>TM-align: aliSize=103 (resi) RMSD=0.38 (Å)  kesaaakferqhmdsg-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspssSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=117 (resi) RMSD=9.62 (Å)  k-ESAAAKFERQHMDSGS----SNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kESAAAKFERQHMDSGnspssSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=118 (resi) iden=98.32% (117/119) simi=99.16% (118/119)  KESAAAKFERQHMDSG----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnspssSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.36 (Å)  KESAAAKFERQHMDSG----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnspssSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
734	<p>3bcmA (119)</p> <hr/> <p>1h8xA (125)</p>	N	75.63	<p>TM-align: aliSize=103 (resi) RMSD=1.19 (Å)  kesaaakferqhmdsg-----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspssSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIIVACEGSPYVPVHFDASVe</p> <p>SARST: aliSize=117 (resi) RMSD=14.08 (Å)  k-ESAAAKFERQHMD---SGSSN--YCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kESAAAKFERQHMDsgnSPSSStYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIIVACEGSPYVPVHFDASV-ve</p> <p>BLAST: aliSize=101 (resi) iden=76.47% (91/119) simi=84.87% (101/119)  KESAAAKFERQHMDSG----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnspssSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIIVACEGSPYVPVHFDASVe</p> <p>Proposed: aliSize=119 (resi) RMSD=1.04 (Å)  KESAAAKFERQHMDSG--S---SNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDQOTNCYOSKSTMRIIDCRETGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGnspssSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIIVACEGSPYVPVHFDASVe</p>

735	1tq9A (124)	N	98.36	<p>TM-align: aliSize=103 (resi) RMSD=1.21 (Å)  kesaaakferqhmdsgnsp-----SSSSNYCNLM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnSPSSNYCNLMccRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASV</p> <p>SARST: aliSize=120 (resi) RMSD=11.24 (Å)  k-ESAAAKFERQHMDSGNSPSSSNYCNLM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDAS-v  -kESAAAKFERQHMDSGNSPSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=120 (resi) iden=98.36% (120/122) simi=98.36% (120/122)  KESAAAKFERQHMDSGNSPSSSNYCNLM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSPSS--NYCNLMccRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=122 (resi) RMSD=0.62 (Å)  KESAAAKFERQHMDSGNSPSSSNYCNLMYYRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSP--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI I VACGGKPSVPVHFDASV</p>
736	1k50A (63)	C	96.83	<p>TM-align: aliSize=53 (resi) RMSD=1.02 (Å)  -----EEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKgytlnikfag-----  mhhhhhhamEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADK-----aytlnikfag</p> <p>SARST: aliSize=58 (resi) RMSD=8.41 (Å)  e-----EVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKGYTLN IKF-----ag  -mhhhhhhamEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLN IKfag--</p> <p>BLAST: aliSize=61 (resi) iden=96.83% (61/63) simi=96.83% (61/63)  -----EEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKGYTLN IKFAG  mhhhhhhamEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLN IKFAG</p> <p>Proposed: aliSize=63 (resi) RMSD=1.15 (Å)  -----EEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKGYTLN IKFAG  mhhhhhhamEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLN IKFAG</p>
737	1k50A (63)	C	93.65	<p>TM-align: aliSize=53 (resi) RMSD=1.08 (Å)  -----EEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKgytlnikfag-----  mhhhhhghmEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVVPK-----aytlnikfag</p> <p>SARST: aliSize=58 (resi) RMSD=8.28 (Å)  e-----EVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKGYTLN IKF-----ag  -mhhhhhghmeEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDV--PKAYTLN IKfag--</p> <p>BLAST: aliSize=59 (resi) iden=93.65% (59/63) simi=93.65% (59/63)  -----EEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKGYTLN IKFAG  mhhhhhghmEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVVPKAYTLN IKFAG</p> <p>Proposed: aliSize=63 (resi) RMSD=1.19 (Å)  -----EEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTADVADKGYTLN IKFAG  mhhhhhghmEEVTIKANLIFANGSTQAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVVPKAYTLN IKFAG</p>
	1jmlA (72)			

738	<p>1jmlA (72)</p> <hr/> <p>2hj1A (77)</p>	C	4.17	<p><b>TM-align:</b> aliSize=50 (resi) RMSD=2.46 (Å)  mhhhhhghMeEVTIKANLIaNGSTQTAEFKGTFEKaT-SEaYA--YADT-LkKdNGE---WTVVVPKAYtlnikfag-----  -----N-QINTEIAYA--PERYYLKSFOVDEGIT-VqTA-ITqSGILSqF-P-EIDlStNKIGIFSRPI-----k1tdv1kEgdrieiyrp11</p> <p><b>SARST:</b> aliSize=60 (resi) RMSD=8.92 (Å)  mhhhhhghme-EVTIKANLIaNGSTQTAEFK---GTFEKATSEAYAYADTLK--KDNGEWTVVVPKA-----YTLNKF---ag  -----nQINTEIAYA--PERYYLKSFOVdegITVQTITQSGILSQFPEidLSTNKIGIFSRPIK1tdv1kEgDRIEVYRpl1--</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=6.94% (5/72) simi=12.50% (9/72)  mhhhhhghmevtikanlifangstqtaefkgtfekats-----AYAYADTLKKNgeWTVD-----vvpkaytlnikfag  -----nqinieiaYAFPERYYLKS--FOVdegitvqtaitqsgilsqfpeidlstnkigifsrpik1tdv1kEgdrieiyrp11-----</p> <p><b>Proposed:</b> aliSize=60 (resi) RMSD=2.36 (Å)  mhhhhhghMeEVTIKANLIaNGSTQTAEFKGTFEK-aT-SEAYA-YADTLKKNge---WTVVVPK-----AYTLNIKfag--  -----N-QINTEIAYA--PERYYLKSFOVDEGIT-VqTAITQSGILSqFP-EIDlStNKIGIFSRpik1tdv1kEGDRIEYRPl1</p>
739	<p>1mu4A (86)</p> <hr/> <p>1y50A (87)</p>	N	26.74	<p><b>TM-align:</b> aliSize=44 (resi) RMSD=2.33 (Å)  mvqqkvevr1kt-----GLQARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVStgtevtliaggedeqaaleklaayvqeevl-----  -----aektfkvvsdsGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIp-----kgatikitaegadaaeamaaltdtlakeglae</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=15.73 (Å)  mv-QQKVEVRLKTLGLOARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVSTTEVTILIAQEEDEQ--EALEKLAAYVQE---evl  --aEKTfKvVSDSGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIpKATIKITAEADAAEaMALTDTLAKEGlae---</p> <p><b>BLAST:</b> aliSize=49 (resi) iden=37.21% (32/86) simi=56.98% (49/86)  mvqqkvevr1k-----TGLQARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVSTTEVTILIAQEEDEQ--EALEKLAAYVQEEV---  -----aektfkvvsdsGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIpKATIKITAEADAAEaMALTDTLAKEGlae---</p> <p><b>Proposed:</b> aliSize=52 (resi) RMSD=1.55 (Å)  mVQKVEVRL-KT-gIQARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLA-V-----stgtevtliaggedeqaaleklaayvqeevl  -AEKTfKvVSDSGi--HARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIpKatikitaegadaaeamaaltdtlakeglae-----</p>
740	<p>1mu4A (86)</p> <hr/> <p>1y50A (87)</p>	C	34.88	<p><b>TM-align:</b> aliSize=44 (resi) RMSD=2.33 (Å)  mvqqkvevr1kt-----GLQARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVStgtevtliaggedeqaaleklaayvqeevl-----  -----aektfkvvsdsGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIp-----kgatikitaegadaaeamaaltdtlakeglae</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=15.73 (Å)  mv-QQKVEVRLKTLGLOARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVSTTEVTILIAQEEDEQ--EALEKLAAYVQE---evl  --aEKTfKvVSDSGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIpKATIKITAEADAAEaMALTDTLAKEGlae---</p> <p><b>BLAST:</b> aliSize=49 (resi) iden=37.21% (32/86) simi=56.98% (49/86)  mvqqkvevr1k-----TGLQARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVSTTEVTILIAQEEDEQ--EALEKLAAYVQEEV---  -----aektfkvvsdsGIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIpKATIKITAEADAAEaMALTDTLAKEGlae---</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=1.75 (Å)  mvqqkvevr1ktg-----LQARPAALFVQEANRFTSDVFLKDGKKVNAKSLMGLMSLAVSTTEVTILIAQEEDEQ--EALEKLAAYVQEE---v1  -----aektfkvvsdsgIHARPATILVQTASKWNSEIQLEYNGKTVNLKSLMGVMSLGIpKATIKITAEADAAEaMALTDTLAKEGlae---</p>

741	<p>2ck2B (96)</p> <hr/> <p>1wwaX (105)</p>	N	9.38	<p><b>TM-align:</b> aliSize=71 (resi) RMSD=3.60 (Å)  vsdvprdievva-----VtptSALISWDAPaVT-IRYIRLTYGeTggnSPVQEI----TL-P-----GSKSTYITISGLKPGTDYTVLISVTVGrgdspASSKPASINFRTEI-----  -----vsfpasvqlhtaveEMH--HWCIPFSVD-GQpAPSLRWLFN-G----SILNEtsfiFTeFlapaanetVRHGCLRLNQPTHVNGNYTLAANP-----FGQASASIMAAFMDnpfefn</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=12.47 (Å)  vs-----DVPRIEIVAVTptSALISWDAPavtirIRYIRTYGETGNSPV-----QITLFGS-KSTYITISGLKPGT----DYTVLISVTVGRGDSPPASSKPASINFRTE-----i  --vsfpasvqlHTAVEMHH-WCI--PFSVDGQPA-----PSLRWLFNCSVLNetsfiFTFLEFAAnETVRHGCLRLNQPTHVnNGNYTLA--ANPFGQASASIMAAFMDNPfefn-</p> <p><b>BLAST:</b> aliSize=23 (resi) iden=13.54% (13/96) simi=23.96% (23/96)  vsdvprdievvaVtptSALISWDAPavtir-----YIRLTYGETGGNSPVQEIITLPGSKSTYITISGLKPGTDYTVLISVTVGRGDSPPASSKPASINFRTEI-----skpasinfrtei  -----vsfpasvqlhtaveEMHhwipfsvdgqpapslrwlfnsgsvlnetsFTFLEFAANETVRHGCLRLNQPTHVNGNYTLAANPFGQASASImaafmdnpfefn-----</p> <p><b>Proposed:</b> aliSize=78 (resi) RMSD=2.90 (Å)  -VSDVpRIEIVAVTPT--saLISWDAPaVTIRYIRLTYGeT-ggnSPVQEI-----tL-----pgSKSTYITISGLKPGT-DYTVLISVTVGrgdspASSKPASINFRTEI-----  vSFPa-SVQLHTAVEMHhw--CI-PFSVD-GQPAPSLRWLFN-g----SILNEtsfiF-Teflepaanetv--RHGCLRLNQ-THVnNGNYTLAANP-----FGQASASIMAAFMDnpfefn</p>
742	<p>1f0vA (124)</p> <hr/> <p>3bcpA (124)</p>	N	74.19	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=1.15 (Å)  ketaaakferqhmdsstsaa-----SSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv-----  -----kesaakferqhmdsgnsasSSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=16.64 (Å)  k-ETAAAKFERQHMDsSTsaASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv--  -kESAAAKFERQHMDSGN--SASSSNYCNQMMRKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv--</p> <p><b>BLAST:</b> aliSize=109 (resi) iden=83.61% (102/124) simi=89.34% (109/124)  KETAAAKFERQHMDsSTsaASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv  KESAAAKFERQHMDSGNSASSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.04 (Å)  KETAaAKFERQHMDsSTsaASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv-----  KESAAAKFERQHMDSGNSASSSNYCNQMMYRKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----</p>
743	<p>1f0vA (124)</p> <hr/> <p>3bcpA (124)</p>	C	69.35	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=1.15 (Å)  ketaaakferqhmdsstsaa-----SSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv-----  -----kesaakferqhmdsgnsasSSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=16.64 (Å)  k-ETAAAKFERQHMDsSTsaASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv--  -kESAAAKFERQHMDSGN--SASSSNYCNQMMRKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv--</p> <p><b>BLAST:</b> aliSize=109 (resi) iden=83.61% (102/124) simi=89.34% (109/124)  KETAAAKFERQHMDsSTsaASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv  KESAAAKFERQHMDSGNSASSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=0.83 (Å)  ketaaakferqhmdsstsaa-----SSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVPVHFDASv-----  -----kesaakferqhmdsgnsasSSSNYCNQMMYRKMTQGKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----</p>



744	<p>1f0vA (124)</p> <p>3bcoA (124)</p>	N	74.19	<p>TM-align: aliSize=94 (resi) RMSD=1.16 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-----  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----svpvhfdasv</p> <p>SARST: aliSize=121 (resi) RMSD=12.72 (Å)  k-ETAAAKFERQHMDsTSAASS-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-v  -kESAAAKFERQHMDS-GNSASSsSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=109 (resi) iden=82.26% (102/124) simi=87.90% (109/124)  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=113 (resi) RMSD=0.91 (Å)  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-----pyvpvhfdasv  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----psvpvhfdasv-----</p>
745	<p>1f0vA (124)</p> <p>3bcoA (124)</p>	C	69.35	<p>TM-align: aliSize=94 (resi) RMSD=1.16 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-----  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----svpvhfdasv</p> <p>SARST: aliSize=121 (resi) RMSD=12.72 (Å)  k-ETAAAKFERQHMDsTSAASS-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-v  -kESAAAKFERQHMDS-GNSASSsSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=109 (resi) iden=82.26% (102/124) simi=87.90% (109/124)  KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=104 (resi) RMSD=0.83 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-----  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----</p>
746	<p>1f0vA (124)</p> <p>3bcmA (119)</p>	C	83.19	<p>TM-align: aliSize=109 (resi) RMSD=0.96 (Å)  KETAAAKFERQHMDSsTsaasSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-----  KESAAAKFERQHMDS-G----SSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----svpvhfdasv</p> <p>SARST: aliSize=117 (resi) RMSD=9.20 (Å)  k-ETAAAKFERQHMDsstsaASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-v  -kESAAAKFERQHMD-----SGSSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=105 (resi) iden=83.19% (99/119) simi=88.24% (105/119)  KETAAAKFERQHMDSsTsaasSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSG-----SSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.59 (Å)  KETAAAKFERQHMDSsTsaasSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV-----  KESAAAKFERQHMDS-G----SSNYCNQMMCCRKMTQGGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----</p>

747	<p>1f0vA (124)</p> <hr/> <p>1r5cA (124)</p>	N	72.58	<p><b>TM-align:</b> aliSize=95 (resi)      RMSD=1.64 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYvpvhfdasv-----  -----kesaakferqhmdsgnspssSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vpvhfdasv</p> <p><b>SARST:</b>      aliSize=121 (resi)      RMSD=12.83 (Å)  k-ETAAAKFERQHMDs-STSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDAS-v  -kESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b>      aliSize=107 (resi)      iden=81.45% (101/124)      simi=86.29% (107/124)  KETAAAKFERQHMDsstaaSSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=112 (resi)      RMSD=0.84 (Å)  KETAAAKFERQHMDsstaa-ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEIN-----pyvpvhfdasv  KESAAAKFERQHMDs-GNSpSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSvpvhfdasv-----</p>
748	<p>1f0vA (124)</p> <hr/> <p>1r5cA (124)</p>	C	68.55	<p><b>TM-align:</b> aliSize=95 (resi)      RMSD=1.64 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYvpvhfdasv-----  -----kesaakferqhmdsgnspssSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vpvhfdasv</p> <p><b>SARST:</b>      aliSize=121 (resi)      RMSD=12.83 (Å)  k-ETAAAKFERQHMDs-STSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDAS-v  -kESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b>      aliSize=107 (resi)      iden=81.45% (101/124)      simi=86.29% (107/124)  KETAAAKFERQHMDsstaaSSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=103 (resi)      RMSD=0.65 (Å)  ketaaakferqhmdsstaaSSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  -----kesaakferqhmdsgnspssSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
749	<p>1f0vA (124)</p> <hr/> <p>1lbgA (124)</p>	N	73.39	<p><b>TM-align:</b> aliSize=94 (resi)      RMSD=1.06 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYvpvhfdasv-----  -----kesaakferqhmdsgnspssSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----svpvhfdasv</p> <p><b>SARST:</b>      aliSize=121 (resi)      RMSD=12.88 (Å)  k-ETAAAKFERQHMDs-STSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDAS-v  -kESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b>      aliSize=107 (resi)      iden=81.45% (101/124)      simi=86.29% (107/124)  KETAAAKFERQHMDsstaaSSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=113 (resi)      RMSD=0.93 (Å)  KETAAAKFERQHMDsstaa-ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEIN-----yvpvhfdasv  KESAAAKFERQHMDs-GNSpSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSvpvhfdasv-----</p>

750	<p>1f0vA (124)</p> <hr/> <p>1lbgA (124)</p>	C	69.35	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.06 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv-----  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=12.88 (Å)  k-ETAAAKFEROHMDSSTSAASsSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv-v  -kESAAAKFEROHMDSgNSPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  kETAAAKFEROHMDSSTSAASSSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv  kESAAAKFEROHMDSGNSPSSSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=0.82 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p>
751	<p>1f0vA (124)</p> <hr/> <p>1tq9A (124)</p>	N	73.39	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.26 (Å)  ketaaakferqhmdsstsa-----ASSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv-----  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=13.97 (Å)  k-ETAAAKFEROHMDSSTSAASsSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv-v  -kESAAAKFEROHMDSGN-SPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=82.79% (101/124) simi=87.70% (107/124)  kETAAAKFEROHMDSSTSAASSSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv  kESAAAKFEROHMDSGNSPSSSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=0.93 (Å)  kETAAAKFEROHMDSSTSAASsSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv  kESAAAKFEROHMDSGN-SPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv-----</p>
752	<p>1f0vA (124)</p> <hr/> <p>1tq9A (124)</p>	C	69.35	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.26 (Å)  ketaaakferqhmdsstsa-----ASSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv-----  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=13.97 (Å)  k-ETAAAKFEROHMDSSTSAASsSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv-v  -kESAAAKFEROHMDSGN-SPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=82.79% (101/124) simi=87.70% (107/124)  kETAAAKFEROHMDSSTSAASSSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv  kESAAAKFEROHMDSGNSPSSSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=0.66 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENPYVpvhfdasv  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVpvhfdasv</p>

753	<p>1f0vA (124)</p> <hr/> <p>1r3mB (122)</p>	C	<p>81.15</p> <p><b>TM-align:</b> aliSize=112 (resi) RMSD=1.10 (Å)  kETAAAKFERQHMDsTSAAsSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYvpvhfdasv-----  kESAAAKFERQHMDs-GNSP--SSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----svpvhfdasv</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.01 (Å)  k-ETAAAKFERQHMDsTSAAsSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  -kESAAAKFERQHMD--SGNSPSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=105 (resi) iden=81.97% (100/122) simi=86.07% (105/122)  kETAAAKFERQHMDsTSAAsSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  kESAAAKFERQHMDsGNSP--SSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.79 (Å)  kETAAAKFERQHMDsTSAAsSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  kESAAAKFERQHMDs-GNSP--SSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p>
754	<p>1f0vA (124)</p> <hr/> <p>1r5dA (124)</p>	N	<p>72.58</p> <p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.62 (Å)  ketaaakferqhmdsstaa-----SSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYvpvhfdasv-----  -----kesaaakferqhmdsgnspSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vvpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=12.84 (Å)  k-ETAAAKFERQHMDsTSAAsSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  -kESAAAKFERQHMDs-GNSPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  kETAAAKFERQHMDsstaaSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  kESAAAKFERQHMDsgnspSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=0.84 (Å)  kETAAAKFERQHMDsstaaSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNF-----pyvpvhfdasv  kESAAAKFERQHMDs-GNSPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSvpvhfdasv-----</p>
755	<p>1f0vA (124)</p> <hr/> <p>1r5dA (124)</p>	C	<p>68.55</p> <p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.62 (Å)  ketaaakferqhmdsstaa-----SSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYvpvhfdasv-----  -----kesaaakferqhmdsgnspSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vvpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=12.84 (Å)  k-ETAAAKFERQHMDsTSAAsSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  -kESAAAKFERQHMDs-GNSPSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  kETAAAKFERQHMDsstaaSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  kESAAAKFERQHMDsgnspSSsSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=0.66 (Å)  ketaaakferqhmdsstaa-----SSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDA--v  -----kesaaakferqhmdsgnspSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA--v</p>

756	<p><b>1f0vA</b> (124)</p> <hr/> <p><b>11baA</b> (124)</p>	N	72.58	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.21 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-----  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-----svpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=12.89 (Å)  k-ETAAAKFERQHMDsTSAASS-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-v  -kESAAAKFERQHMDs-GNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDsTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV  KESAAAKFERQHMDsGNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=0.75 (Å)  KETAAAKFERQHMDsTSA-ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV  KESAAAKFERQHMDs-GNSpSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-----pyvpvhfdasv</p>
757	<p><b>1f0vA</b> (124)</p> <hr/> <p><b>11baA</b> (124)</p>	C	68.55	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.21 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-----  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-----svpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=12.89 (Å)  k-ETAAAKFERQHMDsTSAASS-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-v  -kESAAAKFERQHMDs-GNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDsTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV  KESAAAKFERQHMDsGNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=0.55 (Å)  ketaaakferqhmdsstsaas-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV</p>
758	<p><b>1r5cA</b> (124)</p> <hr/> <p><b>1js0A</b> (124)</p>	N	72.58	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.43 (Å)  kesaaakferqhmdsgnsp-----SSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-----  -----ketaaakferqhmdsstsaSSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-----yvpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.44 (Å)  k-ESAAAKFERQHMDsGNSPSS-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-v  -kETAAAKFERQHMDs-STSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KESAAAKFERQHMDsGNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV  KETAAAKFERQHMDsSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=0.88 (Å)  KESAAAKFERQHMDs-GNSpSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGKPSVYPVHFDASV-----psvpvhfdasv  KETAAAKFERQHMDsTSA-ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACENFYVYPVHFDASV-----npyvpvhfdasv-----</p>

759	<p>1r5cA (124)</p> <hr/> <p>1js0A (124)</p>	C	68.55	<p><b>TM-align:</b> aliSize=94 (resi)      RMSD=1.43 (Å)  kesaaakferqhmdsgnspss-----SSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----  -----ketaaakferqhmdsstsaasSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV-----</p> <p><b>SARST:</b> aliSize=121 (resi)      RMSD=11.44 (Å)  k-ESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kETAAAKFERQHMDSSSTAAS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=107 (resi)      iden=81.45% (101/124)      simi=86.29% (107/124)  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSSTAAS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=103 (resi)      RMSD=0.67 (Å)  kesaaakferqhmdsgnspss-----SSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaaakferqhmdsstsaasSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV</p>
760	<p>1r5cA (124)</p> <hr/> <p>1r3mB (122)</p>	N	98.36	<p><b>TM-align:</b> aliSize=103 (resi)      RMSD=0.35 (Å)  kesaaakferqhmdsgnspss-----SSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=120 (resi)      RMSD=9.87 (Å)  k-ESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=122 (resi)      iden=100.00% (122/122)      simi=100.00% (122/122)  KESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=122 (resi)      RMSD=0.51 (Å)  KESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGN-SP--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
761	<p>1r5cA (124)</p> <hr/> <p>1a2wA (124)</p>	N	80.65	<p><b>TM-align:</b> aliSize=104 (resi)      RMSD=0.89 (Å)  kesaaakferqhmdsgnspss-----SSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaaakferqhmdsstsaasSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=118 (resi)      RMSD=12.35 (Å)  k-ESAAAKFERQHMDSGNSPSS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kETAAAKFERQHMDSSSTAAS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=107 (resi)      iden=81.45% (101/124)      simi=86.29% (107/124)  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSSTAAS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=123 (resi)      RMSD=0.92 (Å)  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSSTAAS--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQANKHIIIVACGGKPSVPVHFDASV</p>

762	<p>1r5cA (124)</p> <p>1h8xA (125)</p>	N	71.77	<p>TM-align: aliSize=103 (resi) RMSD=1.36 (Å)  kesaaakferqhmdsgnsp-----SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  -----kesaaakferqhmdsgnspSSSYCNLMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNG-OGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p>SARST: aliSize=120 (resi) RMSD=11.93 (Å)  k-ESAAAKFERQHMD--SGNSPSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kESAAAKFERQHMDsgNSPSSST--YCNLMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVve-</p> <p>BLAST: aliSize=105 (resi) iden=77.42% (96/124) simi=84.68% (105/124)  KESAAAKFERQHMDSGNSPSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSYCNLMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p>Proposed: aliSize=122 (resi) RMSD=1.00 (Å)  KESAAAKFERQHMDSGnSPS-SSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSG-NSPSSSYCNLMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNG-OGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>
763	<p>1r3mB (122)</p> <p>1r5dA (124)</p>	N	99.18	<p>TM-align: aliSize=103 (resi) RMSD=0.37 (Å)  kesaaakferqhmdsgnsp-----SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  -----kesaaakferqhmdsgnspSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=120 (resi) RMSD=9.88 (Å)  k-ESAAAKFERQHMDSGNSPS--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kESAAAKFERQHMDSGNSPSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASVv-</p> <p>BLAST: aliSize=122 (resi) iden=100.00% (122/122) simi=100.00% (122/122)  KESAAAKFERQHMDSGNSPS--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=122 (resi) RMSD=0.53 (Å)  KESAAAKFERQHMDSGNS-P-SSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNSpSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
764	<p>1r3mB (122)</p> <p>1a2wA (124)</p>	N	81.15	<p>TM-align: aliSize=105 (resi) RMSD=1.11 (Å)  kesaaakferqhmdsgn-----SPSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  -----ketaaakferqhmdsstsaASSNYCNLMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDASV</p> <p>SARST: aliSize=120 (resi) RMSD=14.21 (Å)  k-ESAAAKFERQHMDSGNSPS--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kETAAAKFERQHMDSTSAAsSYCNLMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDASVv-</p> <p>BLAST: aliSize=105 (resi) iden=81.97% (100/122) simi=86.07% (105/122)  KESAAAKFERQHMDSGNSP--SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KETAAAKFERQHMDSTSAAsSYCNLMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDASV</p> <p>Proposed: aliSize=122 (resi) RMSD=0.76 (Å)  KESAAAKFERQHMDSGNSP-SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTC-KNgTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KETAAAKFERQHMDSTSAAsSYCNLMKSRNLTQDRCKPVNTFVHESLADVQAVCSQKNVACKNGTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGPNPYVPVHFDASV</p>

765	<p>1r3mB (122)</p> <hr/> <p>1lbaA (124)</p>	N	99.18	<p>TM-align: aliSize=103 (resi) RMSD=0.51 (Å)  kesaaakferqhmdsgnsp-----S-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspssS-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=120 (resi) RMSD=9.84 (Å)  k-ESAAAKFERQHMDSGNSPS--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kESAAAKFERQHMDSGNSPSsSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=122 (resi) iden=100.00% (122/122) simi=100.00% (122/122)  KESAAAKFERQHMDSGNSPS--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSPSSsSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=122 (resi) RMSD=0.61 (Å)  KESAAAKFERQHMDSGNS-P-S-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSpSsS-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
766	<p>1r3mB (122)</p> <hr/> <p>1h8xA (125)</p>	N	73.77	<p>TM-align: aliSize=103 (resi) RMSD=1.33 (Å)  kesaaakferqhmdsgns-----P-SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -  -----kesaaakferqhmdsgnspSSSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV e</p> <p>SARST: aliSize=120 (resi) RMSD=14.10 (Å)  k-ESAAAKFERQHMDSGNSPSSN--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS --v  -kESAAAKFERQHMDSGNSPSSStSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASve-</p> <p>BLAST: aliSize=104 (resi) iden=77.05% (94/122) simi=85.25% (104/122)  KESAAAKFERQHMDSGNSPSSN--SYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -  KESAAAKFERQHMDSGNSPSSStSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV e</p> <p>Proposed: aliSize=120 (resi) RMSD=0.92 (Å)  KESAAAKFERQHMDSGNSP---sSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -  KESAAAKFERQHMDSGNSPSSStSYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCCKNGOTNCYOSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV e</p>
767	<p>1dz3A (123)</p> <hr/> <p>2ieyA (164)</p>	C	8.94	<p>TM-align: aliSize=90 (resi) RMSD=3.72 (Å)  -----S-KVCIAD-DNRELVSLLDEYISSqpdmev-----lgtayngq-----Dcl-QMLEEKRPdILLDI----IMPhLDGLAVLERIRaG-FEH-OPNVIMLT--A-----F-GOEDVT-KKVELGASFI LKPFDMENlahhiravvgkt-----  gdydyllKLLALGdSGV-GKTFLYRYTD-----nkfnpk-----fittvgidfrekrvvydfkvhlqlwdts---lTTAFFRDA-GFLIFDI t sqQSf- -NVRNWSQLQ--AnAYCenPDIVLIGnkAdlpdqRevNERQArELAEKYIPYFETSAATGQ-----nveksvetlldlikr</p> <p>SARST: aliSize=114 (resi) RMSD=11.18 (Å)  si-----KYCIAD-DNRELVSLLDEYISSOPDMEVIGTA-----YNGDClqMLEEKRPDI LLDI implDGLAVLER-----IRAGFEH-OPNVIMLTAFGO-----EDVTKKVELGASFI LKPFDMENLAHHIROVYGK---t  --gdydyllKLLALGdSGVGTTFLYRYTDNKFNPkfiittvgidfrekrvvydfkvhlqlwdtslT-TAFFRDAGFLIFDL---TSQQSf- -NVRnwsqLQAnAYCenPDIVLIGNKADlpdqrevneROARELAEKYIPYFETSAATGQVEKSVETLLDLIkr-</p> <p>BLAST: aliSize=14 (resi) iden=4.88% (6/123) simi=11.38% (14/123)  sikveiadnrelvslldeyissq-----gdydyllkllalgdsgvgkttflyrytdnkfnpkfittvgidfrekrvvydfkvhlqlwdtslTtaffrdagflifdltsqsflnvrnwsqLqanaycenPDIVLIGNKADLPQREVNERQARELAEKYIPYFETSAATGQVEKSVETLLDLIkr-----  phldglavleriragfehqpnvimltafgqedvtkkavelgasyfi LkpfDMENlahhiravvgkt</p> <p>Proposed: aliSize=97 (resi) RMSD=2.52 (Å)  -----S-KVCIAD-DN-relVSLLEDEYISS-----qpdmevigtayngqdcIQMIEE--KRPDI LLDI----IM--phLDGLAVLERIRaGFEHQ--OPNVIMLTAF--GOEDVT-KKVELGASFI LKPFDMENLAHHIROVYGK---t  gdydyllKLLALGdSGV-GKTFLYRYTDnkfnpkfittvgidfrekrvvydfkvhlqlwdts-----LT-TAFFRDAMGFLIFDI t sqQSf1---NVRNWSQLQ--ANAYCenPDIVLIGNKADlpdqrevNERQARELAEKYIPYFETSAATGQVEKSVETLLDLImkrm</p>



768	<p>1q10A (56)</p> <hr/> <p>1k50A (63)</p>	C	5.36	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=1.87 (Å)  -----MQYKVIILNGKT-LKGETTTEAVDaATAEKVV-KqFFNdNG-Vdgewtyddatktftvte-----  eeVTIKANLIFANgSTQTAEFKGTf-EKATSEAYa-YAD-TLKK-----dngewtadvadkgytlnikfag</p> <p><b>SARST:</b> aliSize=45 (resi) RMSD=8.15 (Å)  m-----QYKVIILNGKT-LKGETTTEAVDAATAEKVVVKQFFNDNGVDGEWYI-----datktftvte  -eeVTIKANLIFANgSTQTAEFKGTfEKATSEAYAYADTLKKDNGEWTVadvadkgytlnikfag-----</p> <p><b>BLAST:</b> aliSize=22 (resi) iden=30.36% (17/56) simi=39.29% (22/56)  mqyk-----VILNGKTLKGETTTeAVDAATAEKVV--KQFFNDNGvdgEWYIDATKTFIV-----te  ----eevtikanlIFANgSTQTAEFKGTfEKATSEAYaYADTLKKDNG---EWADVADNGYTLnikfag--</p> <p><b>Proposed:</b> aliSize=55 (resi) RMSD=2.28 (Å)  -----MQYKVIILNGK--TLKGETTTEAVDaATAEKVVVKQFFNDNGV---DGEWYIDATKTFIVTE--  eEVTIKANLIfanGSTQTAEFKGTf-EKATSEAYAYADTLKKdngEWTADVADKGYTLNIKfag</p>
769	<p>1q10A (56)</p> <hr/> <p>1k53A (72)</p>	C	5.36	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=1.89 (Å)  -----MQYKVIILNGKT-LKGETTTEAVDaATAEKVV-KqFFNdNG-Vdgewtyddatktftvte-----  mhhhhhameevTIKANLIFANaSTQTAEFKGTf-EKATSEAYa-YAD-TLKK-----dngewtvdvadkgytlnikfag</p> <p><b>SARST:</b> aliSize=45 (resi) RMSD=8.08 (Å)  m-----QYKVIILNGKT-LKGETTTEAVDAATAEKVVVKQFFNDNGVDGEWYI-----datktftvte  -mhhhhhameevTIKANLIFANaSTQTAEFKGTfEKATSEAYAYADTLKKDNGEWTVadvadkgytlnikfag-----</p> <p><b>BLAST:</b> aliSize=22 (resi) iden=28.57% (16/56) simi=39.29% (22/56)  mqykvilngktlkg-----ETITEAVDaATAEKVVVKqffnDNGvdgEWYIDATKTFIV-----te  -----mhhhhhameevtikanlifanastqtaefkgtfEKATSEAY--YADTLKK---DNG---EWADVADNGYTLnikfag--</p> <p><b>Proposed:</b> aliSize=55 (resi) RMSD=2.18 (Å)  -----MQYKVIILNGK--TLKGETTTEAVDaATAEKVVVKQFFNDNGV---DGEWYIDATKTFIVTE--  mhhhhhameEVTIKANLIFANaSTQTAEFKGTf-EKATSEAYAYADTLKKdngEWTVDVAADKGYTLNIKfag</p>
770	<p>1q10A (56)</p> <hr/> <p>1k52A (72)</p>	C	16.07	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=1.88 (Å)  -----MQYKVIILNGKT-LKGETTTEAVDaATAEKVV-KqFFNdNG-Vdgewtyddatktftvte-----  mhhhhhameevTIKANLIFANgSTQTAEFKGTf-EKATSEAYa-YAD-TLKK-----dngewtvdvadggytlnikfag</p> <p><b>SARST:</b> aliSize=45 (resi) RMSD=8.08 (Å)  m-----QYKVIILNGKT-LKGETTTEAVDAATAEKVVVKQFFNDNGVDGEWYI-----datktftvte  -mhhhhhameevTIKANLIFANgSTQTAEFKGTfEKATSEAYAYADTLKKDNGEWTVadvadggytlnikfag-----</p> <p><b>BLAST:</b> aliSize=21 (resi) iden=28.57% (16/56) simi=37.50% (21/56)  mqyk-----VILNGKTLKGETTTeAVDAATAEKVV--KQFFNDNGvdgEWYIDATKTFIV-----te  ----mhhhhhameevtikanlIFANgSTQTAEFKGTf-EKATSEAYaYADTLKKDNG---EWADVADGGYTLnikfag--</p> <p><b>Proposed:</b> aliSize=55 (resi) RMSD=2.15 (Å)  -----MQYKVIILNGK--TLKGETTTEAVDaATAEKVVVKQFFNDNGVD-GEWYIDATKTFIVTE  mhhhhhameEVTIKANLIFANgSTQTAEFKGTf-EKATSEAYAYADTLKKDnGEWTVadvadggyTLNIKfag</p>

771	<p>1q10A (56)</p> <p>2hj1A (77)</p>	C	1.79	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.21 (Å)  --MQYKVI LNKGTKLKGETTTEAV--DAA-TAEKVVkqF-F-NdNGVdgewtyddatktftvte-----  nqINIEIAYAFPERYYLKSFOVdegITVQTAITQS--GIIS-QFP-----eidlstnkigifsrpikltdvlkegdrieiyrpll</p> <p><b>SARST:</b> aliSize=45 (resi) RMSD=10.14 (Å)  m---QYKVI LNKGTKLKGETTTEA---VDAATAEKV---VKQFFNDNGVDGEWTYD-----datktftvte  -nqINIEIAYAFPERYYLKSFOVdegITVQTAITQSgILSQFPEIDLSTNKIGIFsrpikltdvlkegdrieiyrpll-----</p> <p><b>BLAST:</b> aliSize=10 (resi) iden=12.50% (7/56) simi=17.86% (10/56)  mqykvilngkt-----KGETTTEAVDAATA---EKVVKQF-----fndngvdgewtyddatktftvte  -----nqinieiaayafperyyLKSFOVdegITVQTAITQSgILSQFPEIDLSTNKIGIFsrpikltdvlkegdrieiyrpll-----</p> <p><b>Proposed:</b> aliSize=49 (resi) RMSD=2.91 (Å)  -MQYKVI LNKG--TLKGETTTEAVDAATAEKVVKQ--FF-----NDNGVDGEWTY--D---dATKT--F-----tvte  nQINIEIAYAFPERYYLKSFOVdegITVQTAITQSgILSQFPEIDLSTNKIGIFSRpIklt-DVLKegDrieiyrpll----</p>
772	<p>2rlzA (85)</p> <p>1y50A (87)</p>	N	27.06	<p><b>TM-align:</b> aliSize=44 (resi) RMSD=2.40 (Å)  mvqqkvevrlk-----TGLQARPAALFVQENRFTSDVFLKDGKKNnAK-SIMGLMSLAVStgtevtliaqgedeqaleklaayvqev-----  -----aektfkvvsdSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=16.69 (Å)  mv-QQKVEVRLKTGLQARPAALFVQENRFTSDVFLKDGKKNnAKSIMGLMSLAVSTTEVTLIHQEED--EQALEKLAAYVQE---ev  --aEKTfKvVSDSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae--</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=36.47% (31/85) simi=56.47% (48/85)  mvqqkvevrlk-----TGLQARPAALFVQENRFTSDVFLKDGKKNnAKSIMGLMSLAVSTTEVTLIHQEED--EQALEKLAAYVQE---v  -----aektfkvvsdSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae-</p> <p><b>Proposed:</b> aliSize=53 (resi) RMSD=1.92 (Å)  mVQKVEVRLKT-gLQARPAALFVQENRFTSDVFLKDGKKNnAKSIMGLMSLA-V-----stgtevtliaqgedeqaleklaayvqev  -AEKTfKvVSDSg-IHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae-----</p>
773	<p>2rlzA (85)</p> <p>1y50A (87)</p>	C	35.29	<p><b>TM-align:</b> aliSize=44 (resi) RMSD=2.40 (Å)  mvqqkvevrlk-----TGLQARPAALFVQENRFTSDVFLKDGKKNnAK-SIMGLMSLAVStgtevtliaqgedeqaleklaayvqev-----  -----aektfkvvsdSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=16.69 (Å)  mv-QQKVEVRLKTGLQARPAALFVQENRFTSDVFLKDGKKNnAKSIMGLMSLAVSTTEVTLIHQEED--EQALEKLAAYVQE---ev  --aEKTfKvVSDSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae--</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=36.47% (31/85) simi=56.47% (48/85)  mvqqkvevrlk-----TGLQARPAALFVQENRFTSDVFLKDGKKNnAKSIMGLMSLAVSTTEVTLIHQEED--EQALEKLAAYVQE---v  -----aektfkvvsdSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae-</p> <p><b>Proposed:</b> aliSize=73 (resi) RMSD=2.00 (Å)  mvqqkvevrlk-----TGLQARPAALFVQENRFTSDVFLKDGKKNnAKSIMGLMSLAVSTTEVTLIHQEED--EQALEKLAAYVQE---E---v  -----aektfkvvsdSGIHARPATILVQTSKWNSEIQLEYNGKTVNLK-SIMGVMSLGIPIKATIKITAEADAAEAMALTDTLAKEglae-</p>

774	<p><b>1wwaX</b> (105)</p> <p><b>1he7A</b> (107)</p>	C	91.43	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=1.41 (Å)  VSFPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNpfefn-----  SHMPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDN----fefnpe</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=1.24 (Å)  vs--FPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDN-----pfefn  --shMPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNpfefnpe-----</p> <p><b>BLAST:</b> aliSize=102 (resi) iden=97.14% (102/105) simi=97.14% (102/105)  vsf---PASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNPFEFN--  ---shmPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNPFEFNpe</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=0.88 (Å)  VSFPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDN-DN-PFEFN  SHMPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNPFENPE</p>
775	<p><b>1wwcA</b> (105)</p> <p><b>1he7A</b> (107)</p>	C	36.19	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=1.93 (Å)  tvyypprvvsleep-----ELRLEHCIEVVRGNPPTLHWLHNGQPIRESKIITHVEYYQE---GEISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFLKEpfpvde-----  -----shmpasvqlhtaVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPaanETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDN-----npfefnpe</p> <p><b>SARST:</b> aliSize=96 (resi) RMSD=5.71 (Å)  tv--YYPRVVSIEEPELRLHECIEVVRGNPPTLHWLHNGQPIRESKIITHVEYYQEG---EISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFLKE-----pfpvde  --shMPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPaaneTVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNpfefnpe-----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=40.95% (43/105) simi=52.38% (55/105)  tvyypp---RVVSIIEEPELRLHECIEVVRGNPPTLHWLHNGQPIRESKIITHVEYYQEGE---EISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFLKEPF-----pvde  -----shmPASVQLHTA-VEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPaaneTVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNPFefnpe----</p> <p><b>Proposed:</b> aliSize=89 (resi) RMSD=1.51 (Å)  tvyypprvvsleepe-----LRLHECIEVVRGNPPTLHWLHNGQPIRESKIITHVEYYQE---GEISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFL-KEPFVDE  -----shmpasvqlhtaVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPaane-TVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNPFENPE</p>
776	<p><b>3bcpA</b> (124)</p> <p><b>3bcoA</b> (124)</p>	N	98.39	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=0.94 (Å)  kesaaakferqhmdsgnsa-----SSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnsaSSSNYCNQMMccRKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=11.47 (Å)  k--ESAAAKFERQHMDSGNSASSSNYCNQMMR---KMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kESAAAKFERQHMD-SGNSASSSNYCNQMMccRKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=122 (resi) iden=100.00% (122/124) simi=100.00% (122/124)  KESAAAKFERQHMDSGNSASSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMccRKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.97 (Å)  KESAAAKFERQHMDSGNSASSSNYCNQMMYYRKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSSQKVTCKDGTQNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

777	<p>3bcpA (124)</p> <hr/> <p>3bcmA (119)</p>	N	98.32	<p>TM-align: aliSize=101 (resi) RMSD=0.75 (Å)  kesaaakferqhmdsgnsass-----SSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgS--SSNYCNQMMccRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=117 (resi) RMSD=14.41 (Å)  k-ESAAAKFERQHMDsgnSASSSSNYCNQMMRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kESAAAKFERQHMD--SGS--SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=117 (resi) iden=98.32% (117/119) simi=98.32% (117/119)  KESAAAKFERQHMDSGnsassSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSG----SSNYCNQMMccRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=119 (resi) RMSD=0.72 (Å)  KESAAAKFERQHMDSGnsassSSNYCNQMMYYRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFERQHMDSG----SSNYCNQMMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
778	<p>3bcpA (124)</p> <hr/> <p>ljs0A (124)</p>	N	74.19	<p>TM-align: aliSize=92 (resi) RMSD=1.49 (Å)  kesaaakferqhmdsgnsa-----SSSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV-----  -----ketaaakferqhmds tsaaSSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNYVPVHFDASv-----pyvpvhfdasv</p> <p>SARST: aliSize=120 (resi) RMSD=15.35 (Å)  k-ESAAAKFERQHMDSGNSASSSSNYCNQMMR--KMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kETAAAKFERQHMDSSTSAASSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNYVPVHFDASv-</p> <p>BLAST: aliSize=109 (resi) iden=83.61% (102/124) simi=89.34% (109/124)  KESAAAKFERQHMDSGNSASSSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNYVPVHFDASV</p> <p>Proposed: aliSize=112 (resi) RMSD=1.03 (Å)  KESAAAKFERQHMDSGNSA-sSSSSNYCNQMMYYRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGK-----psvpvhfdasv  KETAAAKFERQHMDSSTSAa-SSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNYpyvpvhfdasv-----</p>
779	<p>3bcpA (124)</p> <hr/> <p>ljs0A (124)</p>	C	69.35	<p>TM-align: aliSize=92 (resi) RMSD=1.49 (Å)  kesaaakferqhmdsgnsa-----SSSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKpsvpvhfdasv-----  -----ketaaakferqhmds tsaaSSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGN-----pyvpvhfdasv</p> <p>SARST: aliSize=120 (resi) RMSD=15.35 (Å)  k-ESAAAKFERQHMDSGNSASSSSNYCNQMMR--KMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -kETAAAKFERQHMDSSTSAASSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNPYVPVHFDASv-</p> <p>BLAST: aliSize=109 (resi) iden=83.61% (102/124) simi=89.34% (109/124)  KESAAAKFERQHMDSGNSASSSSNYCNQMM--RKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KETAAAKFERQHMDSSTSAASSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNPYVPVHFDASV</p> <p>Proposed: aliSize=104 (resi) RMSD=0.91 (Å)  kesaaakferqhmdsgnsas-----SSSSNYCNQMMYYRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKDGTQNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----ketaaakferqhmds tsaaSSSSNYCNQMMksrNLTJKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEGNPYVPVHFDASV</p>

780	<p>3bcpA (124)</p> <hr/> <p>1r3mB (122)</p>	N	95.90	<p>TM-align: aliSize=102 (resi) RMSD=1.13 (Å)  kesaaakferqhmds <b>gnsas</b>-----SSSNYCNQMM--RKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKDGGTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmds <b>gnsPS</b>SNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=120 (resi) RMSD=14.43 (Å)  k- <b>S</b>SAAAKFERQHMD<b>S</b>GNSA<b>S</b>SSSNYCNQMMRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKDGGTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS -v  -k <b>S</b>SAAAKFERQHMD<b>S</b>GNS<b>P</b>SSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDAS v-</p> <p>BLAST: aliSize=118 (resi) iden=95.90% (117/122) simi=96.72% (118/122)  <b>K</b>ESAAAKFERQHMD<b>S</b>GNSA<b>S</b>SSSNYCNQMM--RKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKDGGTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  <b>K</b>ESAAAKFERQHMD<b>S</b>GNS<b>P</b>SS--NYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=122 (resi) RMSD=0.85 (Å)  <b>K</b>ESAAAKFERQHMD<b>S</b>GNSA<b>S</b>SSSNYCNQMMYYRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKDGGTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  <b>K</b>ESAAAKFERQHMD<b>S</b>GNS<b>P</b>SS--SSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
781	<p>1js0A (124)</p> <hr/> <p>11bgA (124)</p>	N	72.58	<p>TM-align: aliSize=94 (resi) RMSD=1.28 (Å)  ketaaakferqhmd <b>ss</b>tsaa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDASV-----  -----kesaaakferqhmd <b>sgn</b>spSSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDASV-----svpvhfdasv</p> <p>SARST: aliSize=121 (resi) RMSD=11.47 (Å)  k- <b>S</b>TAAAKFERQHMD<b>S</b>-<b>S</b>TSAA<b>S</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDAS -v  -k <b>S</b>SAAAKFERQHMD<b>S</b>gNS<b>P</b>SSSS--SNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDAS v-</p> <p>BLAST: aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  <b>K</b>ETAAAKFERQHMD<b>S</b>TSAA<b>S</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDASV  <b>K</b>ESAAAKFERQHMD<b>S</b>GNS<b>P</b>SSSSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDASV</p> <p>Proposed: aliSize=112 (resi) RMSD=0.78 (Å)  <b>K</b>ETAAAKFERQHMD<b>S</b>TSAA<b>S</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDASV-----pyvpvhfdasv  <b>K</b>ESAAAKFERQHMD<b>S</b>-GNS<b>P</b>SSSSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDASV-----</p>
782	<p>1js0A (124)</p> <hr/> <p>11bgA (124)</p>	C	69.35	<p>TM-align: aliSize=94 (resi) RMSD=1.28 (Å)  ketaaakferqhmd <b>ss</b>tsaa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDASV-----  -----kesaaakferqhmd <b>sgn</b>spSSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDASV-----svpvhfdasv</p> <p>SARST: aliSize=121 (resi) RMSD=11.47 (Å)  k- <b>S</b>TAAAKFERQHMD<b>S</b>-<b>S</b>TSAA<b>S</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDAS -v  -k <b>S</b>SAAAKFERQHMD<b>S</b>gNS<b>P</b>SSSS--SNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDAS v-</p> <p>BLAST: aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  <b>K</b>ETAAAKFERQHMD<b>S</b>TSAA<b>S</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDASV  <b>K</b>ESAAAKFERQHMD<b>S</b>GNS<b>P</b>SSSSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDASV</p> <p>Proposed: aliSize=104 (resi) RMSD=0.74 (Å)  ketaaakferqhmd <b>ss</b>tsaa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSI TDCRETGSSKYPNCAYKTTQANKHI IVAC<b>E</b>GNFYVPVHFDASV  -----kesaaakferqhmd <b>sgn</b>spSSSNYCNLMCCRKMTQGGKCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVAC<b>G</b>GKPSVPVHFDASV-----</p>

783	<p>1js0A (124)</p> <hr/> <p>1tq9A (124)</p>	N	72.58	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.71 (Å)  ketaaakferqhmdsstsa-----ASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYvpvhfdasv-----  -----kesaaakferqhmdsgnspSSSNYCNLM--RKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=12.73 (Å)  k-ETAAAKFERQHMDSTsaasSSN--YCNQMMKSRLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDAS-v  -kESAAAKFERQHMDSGN---SPSsSNYCNLMRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=82.79% (101/124) simi=87.70% (107/124)  KETAAAKFERQHMDSTSAASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLM--RKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=0.78 (Å)  KETAAAKFERQHMDSTsaasSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGN-----pyvpvhfdasv  KESAAAKFERQHMDSGN-SPSsSNYCNLMYYRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSvpvhfdasv-----</p>
784	<p>1js0A (124)</p> <hr/> <p>1tq9A (124)</p>	C	69.35	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.71 (Å)  ketaaakferqhmdsstsa-----ASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYvpvhfdasv-----  -----kesaaakferqhmdsgnspSSSNYCNLM--RKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=12.73 (Å)  k-ETAAAKFERQHMDSTsaasSSN--YCNQMMKSRLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDAS-v  -kESAAAKFERQHMDSGN---SPSsSNYCNLMRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=82.79% (101/124) simi=87.70% (107/124)  KETAAAKFERQHMDSTSAASSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLM--RKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=0.66 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMYYRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
785	<p>1js0A (124)</p> <hr/> <p>1r3mB (122)</p>	C	81.15	<p><b>TM-align:</b> aliSize=112 (resi) RMSD=1.21 (Å)  KETAAAKFERQHMDSTsaAsSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYvpvhfdasv-----  KESAAAKFERQHMDSG-NSP-SSNYCNLMCCRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----svvpvhfdasv</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=6.44 (Å)  k-ETAAAKFERQHMDSTsaAsSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDAS-v  -kESAAAKFERQHMD--SGNSPSSNYCNLMCCRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=105 (resi) iden=81.97% (100/122) simi=86.07% (105/122)  KETAAAKFERQHMDSTsaAsSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSGNSP--SSNYCNLMCCRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.79 (Å)  KETAAAKFERQHMDSTsaAsSSNYCNQMMksRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTDCRETGSSKYPNCAYKTTQANKHIIVACEGNFYVPVHFDASV  KESAAAKFERQHMDSG-NSP-SSNYCNLMCCRKMTOGKCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

786	N	72.58	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.44 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYvpvhfdasv-----  -----kesaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----svpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.44 (Å)  k-ETAAAKFERQHMDs-STSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDAS-v  -kESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDsSTSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=0.91 (Å)  KETAAAKFERQHMDsTSA-ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEIN-----pyvpvhfdasv  KESAAAKFERQHMDs-GNSpSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----</p>
787	C	68.55	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=1.44 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYvpvhfdasv-----  -----kesaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-----svpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.44 (Å)  k-ETAAAKFERQHMDs-STSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDAS-v  -kESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDsSTSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=0.70 (Å)  ketaaakferqhmdsstsaas-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  -----kesaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
788	N	72.58	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.58 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYvpvhfdasv-----  -----kesaakferqhmdsgnspSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPS-----vpvhfdasv</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.43 (Å)  k-ETAAAKFERQHMDs-STSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDAS-v  -kESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDsSTSAASsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDsgNSPSSS-SNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=0.76 (Å)  KETAAAKFERQHMDsTSA-ASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEIN-----pyvpvhfdasv  KESAAAKFERQHMDs-GNSpSSSNYCNLMCCRKMTQKCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----</p>

789	<p>1js0A (124)</p> <hr/> <p>1lbaA (124)</p>	C	68.55	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.58 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv-----  -----kesaaakferqhmdsgnpsSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-----v</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.43 (Å)  k-ETAAAKFERQHMDs-STSAAsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv-  -kESAAAKFERQHMDsgNSPSSsSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFERQHMDSTSAAsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv  KESAAAKFERQHMDsgNSPSSsSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv</p> <p><b>Proposed:</b> aliSize=103 (resi) RMSD=0.50 (Å)  ketaaakferqhmdsstsaas-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv  -----kesaaakferqhmdsgnpsSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv</p>
790	<p>1r5dA (124)</p> <hr/> <p>1a2wA (124)</p>	N	80.65	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.90 (Å)  kesaaakferqhmdsgnps-----SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv  -----ketaaakferqhmdsstsaasSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=12.33 (Å)  k-ESAAAKFERQHMDsgnpsPS--SS--SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-  -kETAAAKFERQHMD----SStsAAsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KESAAAKFERQHMDsgNSPSSsSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv  KETAAAKFERQHMDsSTSAAsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.92 (Å)  KESAAAKFERQHMDs-GNSpSSsSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv  KETAAAKFERQHMDsSTSAAsSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVAVCSQKNACKNGOTNCYOSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNFPYVPVHFDASv</p>
791	<p>1r5dA (124)</p> <hr/> <p>1h8xA (125)</p>	N	71.77	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=1.37 (Å)  kesaaakferqhmdsgnps-----SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-  -----kesaaakferqhmdsgnpsSSSYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=11.86 (Å)  k-ESAAAKFERQHMD--SGNSPSSsSNYCNLMCCRKMTQGGCKPVNTFVHESLADVAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-  -kESAAAKFERQHMDsgNSPSSs--TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b> aliSize=105 (resi) iden=77.42% (96/124) simi=84.68% (105/124)  KESAAAKFERQHMDsgNSPSSsSNYCNLMCCRKMTQGGCKPVNTFVHESLADVAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-  KESAAAKFERQHMDsgNSPSSsTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.01 (Å)  KESAAAKFERQHMDsgnSPS-SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVAVCSQKVTCKNGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-  KESAAAKFERQHMDsg-NSPSSsTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHIIDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve</p>



792	<p>1g85A (159)</p> <p>2hlvA (149)</p>	C	92.62	<p><b>TM-align:</b> aliSize=116 (resi) RMSD=1.09 (Å)  aqeaaeqnl SELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKWNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV KLNvededlekfwkltedkgidkknvvnflenhp-----HPE-----  ----- SELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKCNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV KLNvededlekfwkltedkgidkknvvnflenEDCph</p> <p><b>SARST:</b> aliSize=146 (resi) RMSD=13.39 (Å)  aqeaaeqnls- ELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKWNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV KLNVEDEDLEKFWKLTEDKGI DKKNVN FLENEHPH-pe  -----s ELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKCNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV KGINVEDEDLEKFWKLTEDKGI DKKNVN FLENEDCPHp--</p> <p><b>BLAST:</b> aliSize=145 (resi) iden=96.64% (144/149) simi=97.32% (145/149)  aqeaaeqnl SELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKWNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV K-LNVEDEDLEKFWKLTEDKGI DKKNVN FLENEHPHpe  ----- SELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKCNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV KLNVEDEDLEKFWKLTEDKGI DKKNVN FLENEDCPH-</p> <p><b>Proposed:</b> aliSize=145 (resi) RMSD=0.88 (Å)  aqeaaeqnl SELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKWNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV K-LNVEDEDLEKFWKLTEDKGI DKKNVN FLENEHPH---hpe  ----- SELSGPWRTVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDFFYSVKRDGKCNVHVKATKODDGTIVADYEGQNVFKIVSLSRTHLVAHNIIVDKHGQTTEL TGLFV KLNVEDEDLEKFWKLTEDKGI DKKNVN FLENEDCph---</p>
793	<p>1oy0A (248)</p> <p>3b8iA (283)</p>	C	15.32	<p><b>TM-align:</b> aliSize=213 (resi) RMSD=2.88 (Å)  -R---TKIRTHHLORWkaDgHKWAML TAY YSTAR FDEAIPVLLVDSAAANVV-YGYDTTVP SIDELIPLVRGVVGA PHALV VADLPFSYeAGpTAALAAATRFKdGGAHVKLEGG-----G--E-RVAEQIACLTA-A--G-IPVMAHIGFTPgDAAEOTIADAI VAEAGAFAV  rAshhELRAMFA LDS--S-RCYHTASVFPMSARIAADLIFECGTLGGSVASLQVLAAPDFAL TLSEFVEQATRIGVRLPVIADADHYG-NA-LNVMRTVVELER-ACIAALTIIdtllpaqfgrks tdl icvEGVGKRAALEaRvdPaLTI IARTNAEL-IDVDAVIQRTLA YQEGADGI</p> <p>VMEMVPA-ELATQITGKTIITVIGG--A--GP---N---CDGOVLVWdMafSgaktarfvkryaDVGGELRRRAMOYAOEvaggvfpadeh-----  CLVGRDFAHLEAIAEHHLPLMLVTygnpqLRddarLarlgvrVVVNGH-A-A-YF-----AAIKATYDCLRE-ERG-----avasdl tase lskkyt fpeeyqawardymevk</p> <p><b>SARST:</b> aliSize=210 (resi) RMSD=10.32 (Å)  r-----TKIRTHHLORWKADgHKWAMLTaydySTARIFDEAGipvllVGSaanvvygydttvPSIDELIPLVRGVVGA PHALV VADLPFGSyeaPTAALAAATRFKdGGAHVKLEGG-----EGG-----RVAEQIACLTAAGI--PVMHIGFTPgDAAEOTIADAI VAEAGAFAV  -rashhelramfralldssrcyhtaSVFDPMSARIAADLIFECGTLGGSVASLQVLA---AP-----FA-----LTLSEFVEQATRIGVRLPVIADADHYG---NALNVMRTVVELERACIAALTIIdtllpaqfgrks tdl icvEGVGKRAALEaRvdPaLTI IARTNAELIDV</p> <p>EOTIADAI VAEAGAFAVMEMV-PAELATQITGKTIITVIGG---PNCgqVVLVWDMAGfSgaktarfvkryaDVGGELRRRAMOYAOEvaggvfpadeh-----eh  DAVIQRTLA YQEGADGICLVGRDFAHLEAIAEHHLPLMLVTygnpqLRD-----ARLARLGV-----RVVNGHAA YFAAIKTYDCLREERAVASdl tase lskkyt fpeeyqawardymevk--</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=16.53% (41/248) simi=26.61% (66/248)  rtkirthhlqrwkadghkwamltayd-----STARIFD-----EATIPVLLVDSAAANVV-YGYDTTVP SIDELIPLVRGVVGA PHALV VADLPFSYeAGpTAALAAATRFKdGGAHVKLEGGGERVAEQIACLTAAGI--PVMHIGFTPgDAAEOTIADAI VAEAGAFAV  -----rashhelramfralldssrcyhtaSVFDPMSARIAADLIFECGTLGGSVASLQVLAAPDFAL TLSEFVEQATRIGVRLPVIADADHYG---NALNVMRTVVELERACIAALTIIdtllpaqfgrks tdl icvEGVGKRAALEaRvdPaLTI IARTNAELIDV</p> <p>GAFAVMEMVPAELATQITGKTIITVIGG-----aGP---N---CDGOVLVWDMAGfSgaktarfvkryaDVGGELRRRAMOYAOEvaggvfpadeh-----gagpncdgvvlvwdmagfSgaktarfvkryaDVGGELRRRAMOYAOEvaggvfpadeh  NDELIDDAVIQRTLA YQEGADGICLVGRDFAHLEAIAEHHLPLMLVTygnpqLRddarLarlgvrVVVNGHAA YFAAIKTYDCLREERAVASdl tase lskkyt fpeeyqawardymevk-----</p> <p><b>Proposed:</b> aliSize=208 (resi) RMSD=2.26 (Å)  rt-----K-IRT-hHLORWkaDgHKWAML TAY YSTAR FDEAIPVLLVDSAAANVV-YGYDTTVP SIDELIPLVRGVVGA PHALV VADLPFSYeAGpTAALAAATRFKdGGAHVKLEGG-----G-RVAEQIACLTA-A--G-IPVMAHIGFTPgDAAEOTIADAI VAEAGAFAV  --rashheLrAMFrALDS--S-RCYHTASVFPMSARIAADLIFECGTLGGSVASLQVLAAPDFAL TLSEFVEQATRIGVRLPVIADADHYG-NA-LNVMRTVVELER-ACIAALTIIdtllpaqfgrks tdl icvEGVGKRAALEaRvdPaLTI IARTNAELIDV</p> <p>GAFAVMEMVPAELATQITGKTIITVIGG-----aGP---N---CDGOVLVWDMAGfSgaktarfvkryaDVGGELRRRAMOYAOEvaggvfpadeh-----gagpncdgvvlvwdmagfSgaktarfvkryaDVGGELRRRAMOYAOEvaggvfpadeh  GADGICLVGRDFAHLEAIAEHHLPLMLVTygnpqLRddarLarlgvrVVVNGH-A-----YFAAIKTYDCLREERAVASdl tase lskkyt fpeeyqawardymevk-----</p>
794	<p>1dktB (71)</p> <p>1cksB (78)</p>	C	84.51	<p><b>TM-align:</b> aliSize=59 (resi) RMSD=1.06 (Å)  ---QIYYSKYDDEEFYRHMVLPKDIAKLVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHillfrrplpk-----  ahkQIYYSKYFDEHYEYRHMVLPRELSQVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHillfrrplpkdqk</p> <p><b>SARST:</b> aliSize=69 (resi) RMSD=14.00 (Å)  q----IYYSKYDDEEFYRHMVLPKDIAKLVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLP-----k  -ahkqIYYSKYFDEHYEYRHMVLPRELSQVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPkdqk-</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=84.51% (60/71) simi=91.55% (65/71)  ---QIYYSKYDDEEFYRHMVLPKDIAKLVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPK-----  ahkQIYYSKYFDEHYEYRHMVLPRELSQVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPKdqk</p> <p><b>Proposed:</b> aliSize=71 (resi) RMSD=1.18 (Å)  ---QIYYSKYDDEEFYRHMVLPKDIAKLVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPK-----  ahkQIYYSKYFDEHYEYRHMVLPRELSQVPKTHLMSSEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPKdqk</p>

795	1dktB (71)	C	53.52	<p><b>TM-align:</b> aliSize=56 (resi) RMSD=1.93 (Å)</p> <p>-----QIYYSDKYDDEEFYRHMVLPKDIAK-L---VPKT-----HLMSESEWRNLGVQOQSQGWVYMIHepephillfrrplp-----  hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECH-----apehillfkrplnyaealraat</p> <p><b>SARST:</b> aliSize=66 (resi) RMSD=10.30 (Å)</p> <p>q-----IYYSDKYDDEEFYRHMVLPKDIAKLVPKT-----HLMSESEWRNLGVQOQSQGWVYMIHePEPHILLFRRP-----lpk  -hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECHA-PEPHILLFRRPInyeaelraat---</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=56.34% (40/71) simi=74.65% (53/71)</p> <p>q-----IYYSDKYDDEEFYRHMVLPKDIAKLVPKT-----LMSESEWRNLGVQOQSQGWVYMIHEPEPHILLFRRPL-----pk  -hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlrILTEDEWRGLGITQSLGWEIYECHAPEPHILLFRRPLnyaealraat--</p> <p><b>Proposed:</b> aliSize=68 (resi) RMSD=1.31 (Å)</p> <p>-----QIYYSDKYDDEEFYRHMVLPKDIAK-L---VPKT-----HLMSESEWRNLGVQOQSQGWVYM--iHePEPHILLFRRPLP--K-----  hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYEch-A-PEPHILLFRRPLNyeAelraat</p>
	1qb3C (109)			
796	1buhB (70)	C	84.29	<p><b>TM-align:</b> aliSize=59 (resi) RMSD=1.08 (Å)</p> <p>---QIYYSDKYDDEEFYRHMVLPKDIAKLVPKTHLMSESEWRNLGVQOQSQGWVHYMIHEPEphillfrrplp-----  ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPE-----phillfrrplpkdqkq</p> <p><b>SARST:</b> aliSize=67 (resi) RMSD=12.88 (Å)</p> <p>qi-----IYYSDKYDDEEFYRHMVLPKDIAKLVPKTHLMSESEWRNLGVQOQSQGWVHYMIHEPEPHILLFRRPL-----p  --ahkqiIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPEPHILLFRRPLpkdqkq-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=84.29% (59/70) simi=91.43% (64/70)</p> <p>---QIYYSDKYDDEEFYRHMVLPKDIAKLVPKTHLMSESEWRNLGVQOQSQGWVHYMIHEPEPHILLFRRPL-----  ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPEPHILLFRRPLpkdqkq</p> <p><b>Proposed:</b> aliSize=70 (resi) RMSD=1.11 (Å)</p> <p>---QIYYSDKYDDEEFYRHMVLPKDIAKLVPKTHLMSESEWRNLGVQOQSQGWVHYMIHEPEPHILLFRRPL-----  ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLGVOQSLGWVHYMIHEPEPHILLFRRPLpkdqkq</p>
	1cksB (78)			
797	1buhB (70)	C	55.71	<p><b>TM-align:</b> aliSize=56 (resi) RMSD=1.75 (Å)</p> <p>-----QIYYSDKYDDEEFYRHMVLPKDIAK-L---VPK-----THLMSESEWRNLGVQOQSQGWVYMIHepephillfrrplp-----  hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECH-----apehillfkrplnyaealraat</p> <p><b>SARST:</b> aliSize=64 (resi) RMSD=10.62 (Å)</p> <p>qiy-----IYYSDKYDDEEFYRHMVLPKDIAKLVPK-----THLMSESEWRNLGVQOQSQGWVYMIHePEPHILLFRRPL-----p  ---hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECHA-PEPHILLFRRPInyeaelraat-</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=57.14% (40/70) simi=75.71% (53/70)</p> <p>q-----IYYSDKYDDEEFYRHMVLPKDIAKLVPKT-----LMSESEWRNLGVQOQSQGWVYMIHEPEPHILLFRRPL-----p  -hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlrILTEDEWRGLGITQSLGWEIYECHAPEPHILLFRRPLnyaealraat-</p> <p><b>Proposed:</b> aliSize=69 (resi) RMSD=1.59 (Å)</p> <p>-----QIYYSDKYDDEEFYRHMVLPKDIAK-L---VPK-----THLMSESEWRNLGVQOQSQGWVYM-iHEPEPHILLFRRPLP-----  hafqgrkltqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYEch-APEPHILLFRRPLNyeaelraat</p>
	1qb3C (109)			

798	<p>1dktA (72)</p> <hr/> <p>1cksB (78)</p>	C	83.33	<p>TM-align: aliSize=59 (resi) RMSD=1.03 (Å)        ---QIYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEphillfrrplpkk-----        ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPE-----phillfrrplpkdqk</p> <p>SARST: aliSize=69 (resi) RMSD=14.00 (Å)        q----IYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLF-----kk        -ahkqIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPEPHILLFRRPLFkdqk--</p> <p>BLAST: aliSize=65 (resi) iden=83.33% (60/72) simi=90.28% (65/72)        ---QIYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPK-----k        ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPEPHILLFRRPLPKdqk-</p> <p>Proposed: aliSize=72 (resi) RMSD=1.09 (Å)        ---QIYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRPLPKK---        ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPEPHILLFRRPLPKDqk</p>
799	<p>1dktA (72)</p> <hr/> <p>1qb3C (109)</p>	C	54.17	<p>TM-align: aliSize=56 (resi) RMSD=1.87 (Å)        -----QIYYSDKYDDEEFYRHHVMLPKDIAKLV--PKT-----HLMSESEWRNLGVQOQSGWVYMIHepephillfrrplpkk-----        hafqgrkldqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPsdYFNsevgtlRILTEDEWRGLGITQSLGWEIYECH-----apephillfkrplnyaelraat</p> <p>SARST: aliSize=66 (resi) RMSD=10.24 (Å)        q-----IYYSDKYDDEEFYRHHVMLPKDIAKLVPKT-----HLMSESEWRNLGVQOQSGWVYMIHEPEPHILLFRRP-----lpkk        -hafqgrkldqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPsdYfnsevgtlRILTEDEWRGLGITQSLGWEIYECHA-PEPHILLFKRPlnyaelraat----</p> <p>BLAST: aliSize=53 (resi) iden=55.56% (40/72) simi=73.61% (53/72)        q-----IYYSDKYDDEEFYRHHVMLPKDIAKLVPKT-----LMSESEWRNLGVQOQSGWVYMIHEPEPHILLFRRP-----pkk        -hafqgrkldqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECHAPEPHILLFKRPlnyaelraat---</p> <p>Proposed: aliSize=69 (resi) RMSD=1.58 (Å)        -----QIYYSDKYDDEEFYRHHVMLPKDIAKLV--PKT-----HLMSESEWRNLGVQOQSGWVYMIHEPEPHILLFRRPLP-----kk        hafqgrkldqerarvlefqdsIHYSPRYSDDNYEYRHVMLPKAMLVIPsdYFNsevgtlRILTEDEWRGLGITQSLGWEIYEc-HAPEPHILLFKRPlnyaelraat--</p>
800	<p>2astC (69)</p> <hr/> <p>1cksB (78)</p>	C	84.06	<p>TM-align: aliSize=59 (resi) RMSD=0.95 (Å)        ---QIYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEphillfrrpl-----        ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPE-----phillfrrplpkdqk</p> <p>SARST: aliSize=67 (resi) RMSD=11.49 (Å)        q----IYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRF-----l        -ahkqIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPEPHILLFRRFpkdqk-</p> <p>BLAST: aliSize=63 (resi) iden=84.06% (58/69) simi=91.30% (63/69)        ---QIYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRP-----        ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPEPHILLFRRPpkdqk</p> <p>Proposed: aliSize=69 (resi) RMSD=1.01 (Å)        ---QIYYSDKYDDEEFYRHHVMLPKDIAKLVPKTHLMSESEWRNLGVQOQSGWVHYMIHEPEPHILLFRRP-----        ahkQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRLLGVQOQSLGWVHYMIHEPEPHILLFRRPpkdqk</p>

801	<p>2astC (69)</p> <hr/> <p>1qb3C (109)</p>	C	56.52	<p><b>TM-align:</b> aliSize=56 (resi) RMSD=1.92 (Å)  -----QIYYSDKYDDEEFYRHMVLPKDIKLV--LV--PKT-----HLMSESEWRNLGVQSQGQWVYMIHepephillfrrpl-----  hafqgrkldtqerarvlefqdsIHYSRPRYSDDNYEYRHVMLPKAMLVIPsdYFNsevgtlRILTEDEWRGLGITQSLGWEIYECH-----apephillfkrplnyaealraat</p> <p><b>SARST:</b> aliSize=66 (resi) RMSD=10.20 (Å)  q-----IYYSDKYDDEEFYRHMVLPKDIKLVPKT-----HLMSESEWRNLGVQSQGQWVYMIHePEPHILLFRRP-----l  -hafqgrkldtqerarvlefqdsIHYSRPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECHA-PEPHILLFRRPInyeaelraat-</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=57.97% (40/69) simi=76.81% (53/69)  q-----IYYSDKYDDEEFYRHMVLPKDIKLVPKT-----LMSESEWRNLGVQSQGQWVYMIHEPEPHILLFRRPL-----  -hafqgrkldtqerarvlefqdsIHYSRPRYSDDNYEYRHVMLPKAMLVIPSDYfnsevgtlRILTEDEWRGLGITQSLGWEIYECHAPEPHILLFRRPLnyaealraat</p> <p><b>Proposed:</b> aliSize=68 (resi) RMSD=1.62 (Å)  -----QIYYSDKYDDEEFYRHMVLPKDIKLV--L--VPKT-----HLMSESEWRNLGVQSQGQWVYMIHePEPHILLFRRPL-----  hafqgrkldtqerarvlefqdsIHYSRPRYSDDNYEYRHVMLPKAMLVIPsdYFNsevgtlRILTEDEWRGLGITQSLGWEIYEc-HAPEPHILLFRRPLInyeaelraat</p>
802	<p>2hdxA (108)</p> <hr/> <p>2h46E (98)</p>	C	23.47	<p><b>TM-align:</b> aliSize=67 (resi) RMSD=2.36 (Å)  qp1s--GYPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLNAAGQCRVOHLHfqsifdmlehfrvhiplesggssdvvlvsyvs-----  ----mkPHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRDgAGKYFLWVV-----kfnslnelvdyhrstsvsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=8.50 (Å)  qp1sg---YPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLNAAGQCRVOHLHfqsifdmleHfVHP-----iplesggssdvvlvsyvs  ----mkpHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHSTSVsrnqqiflrdie-----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=23.47% (23/98) simi=47.96% (47/98)  qp1sg---YPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLNAAGQCRVOHLHfqsifdmleHfVHP-----vhiplesggssdvvlvsyvs  ----mkpHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHSTSVsrnqqiflrdie-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=2.00 (Å)  qp1s--GYPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLN-aAGQCRV--qhLHfqsifdmleHfVHPiPlesGSDVVLVSyVps  ----mkPHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRDgAGKYFLWV--VKFNSLNELVDYHSTSVSR--N-QQIFLrdie--</p>
803	<p>2hdxA (108)</p> <hr/> <p>2h5kB (96)</p>	C	21.88	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=2.22 (Å)  qp1sGYPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLNa-AGQCRVOHLHfqsifdmlehfrvhiplesggssdvvlvsyvs-----  ----PHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRD-gAGKYFLWVV-----kfnslnelvdyhrstsvsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=92 (resi) RMSD=11.94 (Å)  qp1sg-YPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLNAAGQCRVOHLHfqsifdmleHfVHPiPlesGSSDVL-vsyvs  ----pHPWFCKIPRAKAEEMLSKQRH--DGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHSTSVS--RNQIFLrdi-----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=24.21% (23/96) simi=49.47% (47/96)  qp1sg-YPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSLNa-AGQCRVOHLHfqsifdmleHfVHPiPlesGSSDVL-vsyvs  ----pHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHSTSVsrnqqiflrdi-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=1.82 (Å)  qp1sGYPWFHGMLSRLKAAQLVLEGgtGSHGVFLVROSETRRRECVITFNFOGKAKHLRLSL---NaagQCRVOHLHfqsifdmleHfVHPiPlesGSDVVLVSyVps  ----PHPWFCKIPRAKAEEMLSKQ--RHDGAFLIRESESAPGDFS SVKFGNDVQHFVKVLRdgaG---KYFLWVVKFNSLNELVDYHSTSVSR--N-QQIFLrdie--</p>

804	2hdxA (108)	C	22.58	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=2.52 (Å)  qplsgyPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----Hpiplesggssdvvlvsyvps-----  -----PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----kfnslnelvdyhrsT-----svsrnqqiflrdi</p> <p><b>SARST:</b> aliSize=79 (resi) RMSD=7.46 (Å)  qplsgypWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfrVHP-----iplesggssdvvlvsyvps  -----pWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfrVHP-----iplesggssdvvlvsyvps</p> <p><b>BLAST:</b> aliSize=46 (resi) iden=24.73% (23/93) simi=49.46% (46/93)  qplsgyPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----vhiplesggssdvvlvsyvps  -----PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----kfnslnelvdyhrsT-----svsrnqqiflrdi</p> <p><b>Proposed:</b> aliSize=90 (resi) RMSD=1.83 (Å)  qplsgyPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSL---NaagCCRVOHLHfqsifdmlehfrVHPVPLEsgGsSDVVLVSyvps  -----PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSL---NaagCCRVOHLHfqsifdmlehfrVHPVPLEsgGsSDVVLVSyvps</p>
805	2hdxA (108)	C	21.88	<p><b>TM-align:</b> aliSize=70 (resi) RMSD=2.67 (Å)  QplsgyPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----Vhiplesggssdvvlvsyvps-----  K---PHPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----kfnslnelvdyhrsT-----svsrnqqiflrdi</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=7.35 (Å)  qplsg--YPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfrVHP-----iplesggssdvvlvsyvps  -----kPHPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfrVHP-----iplesggssdvvlvsyvps</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=23.96% (23/96) simi=48.96% (47/96)  qplsg--YPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----vhiplesggssdvvlvsyvps  -----kPHPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----kfnslnelvdyhrsT-----svsrnqqiflrdi</p> <p><b>Proposed:</b> aliSize=92 (resi) RMSD=1.68 (Å)  qpls-GYPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSL---NaagCCRVOHLHfqsifdmlehfrVHPVPLEsgGsSDVVLVSyvps  -----kPHPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSL---NaagCCRVOHLHfqsifdmlehfrVHPVPLEsgGsSDVVLVSyvps</p>
806	2hdxA (108)	C	22.58	<p><b>TM-align:</b> aliSize=68 (resi) RMSD=2.52 (Å)  qplsgY PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----Vhiplesggssdvvlvsyvps-----  -----HPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----kfnslnelvdyhrsT-----svsrnqqiflrdi</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=7.28 (Å)  qplsgy-PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfrVHP-----iplesggssdvvlvsyvps  -----hPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfrVHP-----iplesggssdvvlvsyvps</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=24.73% (23/93) simi=50.54% (47/93)  qplsgY PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----vhiplesggssdvvlvsyvps  -----HPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSLNAAGCCRVOHLHfqsifdmlehfr-----kfnslnelvdyhrsT-----svsrnqqiflrdi</p> <p><b>Proposed:</b> aliSize=90 (resi) RMSD=1.62 (Å)  qplsgY PWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSL---NaagCCRVOHLHfqsifdmlehfrVHPVPLEsgGsSDVVLVSyvps  -----HPWFHMLSLKAAQLVLEggtGSHVFLVROSETRRRECVLTFNFQGKAKHLRLSL---NaagCCRVOHLHfqsifdmlehfrVHPVPLEsgGsSDVVLVSyvps</p>

807	<p>1p13A (102)</p> <hr/> <p>2h46E (98)</p>	C	29.59	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=1.32 (Å)  --AEEYFGKTRRESERLLNpENPRITFLVRESE-TTKgAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQfsslqqlvayyskhadglchrltnvcp-----  mkPHPWFVGKTPRAKAEEMLSK-QRHDGAFLIRESESAPG-DFSLSVKFG-----NDVQHFVLRDGAQYFLWVWV-----kfnslnelvdyhrstsvsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=8.80 (Å)  a---EEYFGKTRRESERLLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIYSKH-----adglchrltnvcp  -mkpHPWFVGKTPRAKAEEMLSKQRH-DGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLW-VVKFNSLNELVDYHRSTsvsrnqqiflrdie-----</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=33.67% (33/98) simi=52.04% (51/98)  aee-----YFGKTRRESERILLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIY-----skhadglchrltnvcp  ---mkphpWFVGKTPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFG-----DVQHFVLR-DGAKYFLWVVKFNSLNELVDYHrstsvsrnqqiflrdie-----</p> <p><b>Proposed:</b> aliSize=95 (resi) RMSD=1.74 (Å)  --AEEYFGKTRRESERLLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIYSKHADGL-CHRLTNVCP  mkPHPWFVGKTPRAKAEEMLSK-QRHDGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLWV-VKNSLNELVDYHRSTSVSRnQqIFLRDIE</p>
808	<p>1p13A (102)</p> <hr/> <p>2h5kB (96)</p>	C	29.17	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=1.40 (Å)  AEEYFGKTRRESERLLNpENPRITFLVRESE-TTKgAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQfsslqqlvayyskhadglchrltnvcp-----  PHPWFVGKTPRAKAEEMLSK-QRHDGAFLIRESESAPG-DFSLSVKFG-----NDVQHFVLRDGAQYFLWVWV-----kfnslnelvdyhrstsvsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=8.95 (Å)  a-EEYFGKTRRESERLLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIYSKH-----adglchrltnvcp  -pHPWFVGKTPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLW-VVKFNSLNELVDYHRSTsvsrnqqiflrdie-----</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=34.74% (33/96) simi=53.68% (51/96)  aee---YFGKTRRESERILLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIY-----skhadglchrltnvcp  ---phpWFVGKTPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFG-----DVQHFVLR-DGAKYFLWVVKFNSLNELVDYHrstsvsrnqqiflrdie-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=1.65 (Å)  AEEYFGKTRRESERLLNpENPRITFLVRESE-TTKgAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIYSKHADGL-CHRLTNVCP  PHPWFVGKTPRAKAEEMLSK-QRHDGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLWVWV-KNSLNELVDYHRSTSVSRnQqIFLRDIE</p>
809	<p>1p13A (102)</p> <hr/> <p>2aobB (93)</p>	C	32.26	<p><b>TM-align:</b> aliSize=68 (resi) RMSD=1.91 (Å)  aeEYFGKTRRESERLLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQfsslqqlvayyskh-----ADglchrltnvcp-----  --PWFVGKTPRAKAEEMLSK-QRHDGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLWVVK-----fnslnelvdyhrST-----svsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=78 (resi) RMSD=7.74 (Å)  aee-YFGKTRRESERLLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIYSKH-----adglchrltnvcp  ---pWFVGKTPRAKAEEMLSKQRH-HDGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLW-VVKFNSLNELVDYHRSTsvsrnqqiflrdie-----</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=35.48% (33/93) simi=54.84% (51/93)  aee-YFGKTRRESERILLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIY-----skhadglchrltnvcp  ---pWFVGKTPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFG-----DVQHFVLR-DGAKYFLWVVKFNSLNELVDYHrstsvsrnqqiflrdie-----</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=1.28 (Å)  aeEYFGKTRRESERLLNpENPRITFLVRESETTKAYCLSVSDFdnakgLNvKHYKIRKLDSCGFYITSRtQFSSLQQLVAIYSKHADGL-C-HRITnVCP  --PWFVGKTPRAKAEEMLSK-QRHDGAFLIRESESAPGDFSLSVKFG-----NDVQHFVLRDGAQYFLWVWV-KNSLNELVDYHRSTSVSRnQqIFLR-DI-</p>

810	1p13A (102)  2aobA (96)	C	30.21	<p><b>TM-align: aliSize=69 (resi) RMSD=2.08 (Å)</b> -AEEYFGK I TRRESERL L NpENPR T FLVRESE - TTKgAYCL SVSDfDnakgLN VKHYK I RKLDS G FYIT <b>SRTQ</b> fsslqqlvayyskh-----ADg lchrl tnvcp----- kPHPWF F GK I PRAKA EEM SK -QRHD GAFL I RESE s APG-DFS L SVKFG-----NDVQHFKV L RDGA KYFL WVK-----fns lnelvdyhr <b>ST</b>-----svs rnqqi fl rdi</p> <p><b>SARST: aliSize=80 (resi) RMSD=7.74 (Å)</b> a--EEYFGK I TRRESERL L NpEN-PRGT FLVRESE TTKAYCL SVSDfDnakgLN VKHYK I RKLDS G FYIT <b>SRTQ</b> FSSLQQLV A YSKH-----adglchrl tnvcp -kpHPWF F GK I PRAKA EEM --SKQ rHD GAFL I RESE SAP DFS L SVK F-----NDVQHFKV L RDGA KYFL W-VVK FNSL NELVDYHRSTsvs rnqqi fl rdi-----</p> <p><b>BLAST: aliSize=51 (resi) iden=34.38% (33/96) simi=53.12% (51/96)</b> aee----WYFGK I TRRESERL L NpENPR T FLVRESE TTKAYCL SVSDfDnakgLN VKHYK I RKLDS G G FYIT <b>SRTQ</b> FSSLQQLV A Y-----skhadglchrl tnvcp ---kphPWF F GK I PRAKA EEM -MLSKQRHD GAFL I RESE SAP DFS L SVK -FGN-----DVQHFKV L R-DGACKYFL WVK FNSL NELVDYHrstsvs rnqqi fl rdi-----</p> <p><b>Proposed: aliSize=94 (resi) RMSD=1.79 (Å)</b> -AEEYFGK I TRRESERL L NpENPR T FLVRESE TTKAYCL SVSDfDnakgLN VKHYK I RKLDS G FYIT <b>SRTQ</b> FSSLQQLV A YSKHADGL-CHRLTnVcp kPHPWF F GK I PRAKA EEM SK -QRHD GAFL I RESE SAP DFS L SVKFG-----NDVQHFKV L RDGA KYFL WVK-FNSL NELVDYHRSTSVSRnQQIFLRDI-</p>
811	1p13A (102)  2aoaA (93)	C	31.18	<p><b>TM-align: aliSize=68 (resi) RMSD=2.04 (Å)</b> aEEYFGK I TRRESERL L NpENPR T FLVRESE - TTKgAYCL SVSDfDnakgLN VKHYK I RKLDS G FYIT <b>SRTQ</b> fsslqqlvayyskh-----ADg lchrl tnvcp----- -HPWF F GK I PRAKA EEM SK -QRHD GAFL I RESE s APG-DFS L SVKFG-----NDVQHFKV L RDGA KYFL WVK-----fns lnelvdyhr <b>ST</b>-----svs rnqqi fl rdi</p> <p><b>SARST: aliSize=79 (resi) RMSD=7.76 (Å)</b> ae-EYFGK I TRRESERL L NpEN-PRGT FLVRESE TTKAYCL SVSDfDnakgLN VKHYK I RKLDS G FYIT <b>SRTQ</b> FSSLQQLV A YSKH-----adglchrl tnvcp --hPWF F GK I PRAKA EEM --SKQ rHD GAFL I RESE SAP DFS L SVK F-----NDVQHFKV L RDGA KYFL W-VVK FNSL NELVDYHRSTsvs rnqqi fl rdi-----</p> <p><b>BLAST: aliSize=51 (resi) iden=35.48% (33/93) simi=54.84% (51/93)</b> aee--WYFGK I TRRESERL L NpENPR T FLVRESE TTKAYCL SVSDfDnakgLN VKHYK I RKLDS G G FYIT <b>SRTQ</b> FSSLQQLV A Y-----skhadglchrl tnvcp ---hpPWF F GK I PRAKA EEM -MLSKQRHD GAFL I RESE SAP DFS L SVK -FGN-----DVQHFKV L R-DGACKYFL WVK FNSL NELVDYHrstsvs rnqqi fl rdi-----</p> <p><b>Proposed: aliSize=92 (resi) RMSD=1.68 (Å)</b> aEEYFGK I TRRESERL L NpENPR T FLVRESE TTKAYCL SVSDfDnakgLN VKHYK I RKLDS G FYIT <b>SRTQ</b> FSSLQQLV A YSKHADGL-CHRLTnVcp -HPWF F GK I PRAKA EEM SK -QRHD GAFL I RESE SAP DFS L SVKFG-----NDVQHFKV L RDGA KYFL WVK-FNSL NELVDYHRSTSVSRnQQIFL-RD-</p>
812	1rjaA (100)  2h46E (98)	C	38.78	<p><b>TM-align: aliSize=66 (resi) RMSD=2.18 (Å)</b> s---EPWFFGC I SRSEAVRR I QAeGNAT GAFL I RVSEKPSADYVLSVRDTQA V RHYK I WRRAG RRLH <b>NeAVS</b> flslpelvnyhraqlshglrlaapcrkhe----- -mkpHPWF F GK I PRAKA EEM SK -QRHD GAFL I RESE SAPDFS L SVKFGNDVQHFKV L RDGA KYFL W-VV-----kfnslnelvdyhrstsvs rnqqi fl rdi</p> <p><b>SARST: aliSize=91 (resi) RMSD=12.53 (Å)</b> s---EPWFFGC I SRSEAVRR I QAeGNAT GAFL I RVSEKPSADYVLSV-RDTQA V RHYK I WRRAG RRLH <b>NeAVS</b> FLSP ELP V NYHRAQSLSHGLRLAAPCR--khe -mkpHPWF F GK I PRAKA EEM SKQRH-DGAFL I RESE SAPDFS L SVKFGNDVQHFKV L RDGA KYFL W-VVK FNSL NELVDYHRST-SVSRNQQIFLRDIe---</p> <p><b>BLAST: aliSize=54 (resi) iden=39.80% (39/98) simi=55.10% (54/98)</b> se----PWF F GC I SRSEAVRR I QAeGNAT GAFL I RVSEKPSADYVLSVRDTQA V RHYK I WRRAG RRLH <b>NeAVS</b> FLSP ELP V NYHRAQSLSHGLRL-----aapcrkhe --mkpHPWF F GK I PRAKA EEM SKQRH-DGAFL I RESE SAPDFS L SVKFGNDVQHFKV L RDGA KYFL W-VVK FNSL NELVDYHRSTSVSRNQQI fl rdi-----</p> <p><b>Proposed: aliSize=91 (resi) RMSD=1.90 (Å)</b> s----EpWFFGC I SRSEAVRR I QAeGNAT GAFL I RVSEKPSADYVLSVRDTQA V RHYK I WRRAG RRLH <b>NeAVS</b> FLSP ELP V NYHRAQSLSH--G-LR I A A P c R k h e -mkpHPWF F GK I PRAKA EEM SK -QRHD GAFL I RESE SAPDFS L SVKFGNDVQHFKV L RDGA KYFL W-VVK FNSL NELVDYHRST-SVSRnQqIFLRDI-E---</p>

813	<p data-bbox="172 226 243 298">IrjaA (100)</p> <hr/> <p data-bbox="172 550 243 621">2h5kB (96)</p>	C	39.58	<p data-bbox="468 180 1127 210"><b>TM-align:</b> aliSize=66 (resi) RMSD=2.26 (Å)</p> <p data-bbox="468 210 2113 264">s-EPWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSflslpelvnyhraqs lshglrlaapcrkhe----- -pHPWFFGKI PRAKAEEMLSK-QRHDGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VV-----kfnslnelvdyhrstsvsrnqqiflrdi</p> <p data-bbox="468 315 1127 344"><b>SARST:</b> aliSize=92 (resi) RMSD=12.86 (Å)</p> <p data-bbox="468 344 1774 399">s-EPWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSHGLRLAAPCRKH--e -pHPWFFGKI PRAKAEEMLSKQRH-DGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVKNSLNELVDY---HRSTSVSRNQQIFLRdi-</p> <p data-bbox="468 449 1822 533"><b>BLAST:</b> aliSize=54 (resi) iden=41.05% (39/96) simi=56.84% (54/96) se--PWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSHGLRL-----aapcrkhe --phPWFFGKI PRAKAEEMLSKQRH-DGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVKNSLNELVDYHRSTSVSRNQQIFLRdi-----</p> <p data-bbox="468 583 1798 667"><b>Proposed:</b> aliSize=91 (resi) RMSD=1.90 (Å) s--EpWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSH--G-LR AAPCrkhe -phP-WFFGKI PRAKAEEMLSK-QRHDGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVKNSLNELVDYHRST--VSrnQqIFLRDI-E---</p>
814	<p data-bbox="172 869 243 940">IrjaA (100)</p> <hr/> <p data-bbox="172 1192 243 1264">2aobB (93)</p>	C	39.78	<p data-bbox="468 831 2047 915"><b>TM-align:</b> aliSize=68 (resi) RMSD=2.83 (Å) sEpWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSflslpelvnyhr-----AQslshglrlaapcrkhe----- -P-WFFGKI PRAKAEEMLSK-QRHDGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVK-----fnslnelvdyhrST-----svsrnqqiflrdi</p> <p data-bbox="468 966 1952 1050"><b>SARST:</b> aliSize=76 (resi) RMSD=7.60 (Å) sep-WFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVR-DTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSHGLRLAAPCRKhe ---pWFFGKI PRAKAEEMLSKQRH-DGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACK-YFLW-VVKNSLNELVDYHRSTsvsrnqqiflrdi-----</p> <p data-bbox="468 1100 1798 1184"><b>BLAST:</b> aliSize=54 (resi) iden=41.94% (39/93) simi=58.06% (54/93) sePWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSHGLRL-----aapcrkhe --PWFFGKI PRAKAEEMLSKQRH-DGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVKNSLNELVDYHRSTSVSRNQQIFLRdi-----</p> <p data-bbox="468 1234 1798 1318"><b>Proposed:</b> aliSize=88 (resi) RMSD=1.84 (Å) sEpWFFGCI SRSEAVRRIQAEGNATGAFILRVSE-kpS-ADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSH--G-LR AAPCrkhe -P-WFFGKI PRAKAEEMLSK-QRHDGAFILRESEs--ApGDFSLSVKFGNDVQHFVKVLRDGACKYFLWV-VKNSLNELVDYHRST--VSrnQqIFLRDI-----</p>
815	<p data-bbox="172 1520 243 1591">IrjaA (100)</p> <hr/> <p data-bbox="172 1835 243 1906">2aobA (96)</p>	C	38.54	<p data-bbox="468 1482 2077 1566"><b>TM-align:</b> aliSize=69 (resi) RMSD=2.60 (Å) s--EPWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSflslpelvnyhr-----AQslshglrlaapcrkhe----- -kphPWFFGKI PRAKAEEMLSK-QRHDGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVK-----fnslnelvdyhrST-----svsrnqqiflrdi</p> <p data-bbox="468 1617 1786 1701"><b>SARST:</b> aliSize=92 (resi) RMSD=10.76 (Å) s--EPWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVR-DTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSHGLRLAAPCR-khe -kphPWFFGKI PRAKAEEMLSKQRH-DGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACK-YFLW-VVKNSLNELVDYHRST-SVSRNQQIFLRDI---</p> <p data-bbox="468 1751 1834 1835"><b>BLAST:</b> aliSize=54 (resi) iden=40.62% (39/96) simi=56.25% (54/96) se---PWFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSHGLRL-----aapcrkhe --kphPWFFGKI PRAKAEEMLSKQRH-DGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLW-VVKNSLNELVDYHRSTSVSRNQQIFLRdi-----</p> <p data-bbox="468 1885 1822 1969"><b>Proposed:</b> aliSize=89 (resi) RMSD=1.62 (Å) sep---WFFGCI SRSEAVRRIQAEGNATGAFILRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHLNEAVSLSLPELVNyhraqSLSH--G-LR AAPCrkhe ---kphPWFFGKI PRAKAEEMLSK-QRHDGAFILRESE SAPGDFSLSVKFGNDVQHFVKVLRDGACKYFLWV-VKNSLNELVDYHRST--VSrnQqIFLRDI-----</p>



816	<p data-bbox="172 226 243 298">IrjaA (100)</p> <hr/> <p data-bbox="172 550 243 621">2aoaA (93)</p>	C	38.71	<p data-bbox="474 180 1127 210"><b>TM-align:</b> aliSize=69 (resi) RMSD=2.62 (Å)</p> <p data-bbox="474 210 2041 264">sEPWFFGCTSRSEAVRRRQaeGNATGAFLIRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHNEAVSflslpelvnyhr-----AQslshglrlaapcrkhe-----        -HPWFFGKIPRAKAEEMLSK-QRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVK-----fnslnelvdyrST-----svsrnqqiflrd</p> <p data-bbox="474 315 1127 344"><b>SARST:</b> aliSize=85 (resi) RMSD=9.91 (Å)</p> <p data-bbox="474 344 1834 399">sepw---FFGCTSRSEAVRRRQaeGNATGAFLIRVSEKPSADYVLSVRDTQAVRHYKIWR--RaggRLHNeAVSLSLPELVNYHRAQSLSHGLRLAA--pcrkhe        ---hpwFFGKIPRAKAEEMLS--KQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRdgAG--KYFLW-VVKFNSLNELVYHRSTSVSRNQIIFLrd-----</p> <p data-bbox="474 449 1590 478"><b>BLAST:</b> aliSize=54 (resi) iden=41.94% (39/93) simi=58.06% (54/93)</p> <p data-bbox="474 478 1798 533">se-PWFEGCTSRSEAVRRRQaeGNATGAFLIRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHNeAVSLSLPELVNYHRAQSLSHGLRL----aapcrkhe        --hPWFEGKIPRAKAEEMLSKQRH-DGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFL--WVVKFNSLNELVYHRSTSVSRNQIIFLrd-----</p> <p data-bbox="474 583 1127 613"><b>Proposed:</b> aliSize=89 (resi) RMSD=1.72 (Å)</p> <p data-bbox="474 613 1786 667">sep--WFFGCTSRSEAVRRRQaeGNATGAFLIRVSEKPSADYVLSVRDTQAVRHYKIWRAGRLHNeAVSLSLPELVNYHRAQSLSH--GLRLAAPcrkhe        ---hpWFFGKIPRAKAEEMLSK-QRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrd-----</p>
817	<p data-bbox="172 869 243 940">Ir1pB (100)</p> <hr/> <p data-bbox="172 1192 243 1264">2h46E (98)</p>	C	52.04	<p data-bbox="474 831 1127 861"><b>TM-align:</b> aliSize=68 (resi) RMSD=1.32 (Å)</p> <p data-bbox="474 861 2113 915">gsfidiEPPEWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd-----        ----M-KPHPWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVK-----kfnslnelvdyrstsvsrnqqiflrdie</p> <p data-bbox="474 966 1127 995"><b>SARST:</b> aliSize=93 (resi) RMSD=11.40 (Å)</p> <p data-bbox="474 995 1798 1050">gsfidiEPPEWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd----d        -----mKPHPWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrdie</p> <p data-bbox="474 1100 1590 1129"><b>BLAST:</b> aliSize=69 (resi) iden=52.04% (51/98) simi=70.41% (69/98)</p> <p data-bbox="474 1129 1834 1184">gsfidiefpe----WHEGLSRHQAEENLMG-KDIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd--        -----mKPHPWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrdie</p> <p data-bbox="474 1234 1127 1264"><b>Proposed:</b> aliSize=95 (resi) RMSD=0.97 (Å)</p> <p data-bbox="474 1264 1774 1318">gsfidiEPPEWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd--        ----M-KPHPWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrdie</p>
818	<p data-bbox="172 1512 243 1583">Ir1pB (100)</p> <hr/> <p data-bbox="172 1835 243 1906">2h5kB (96)</p>	C	53.13	<p data-bbox="474 1474 1127 1503"><b>TM-align:</b> aliSize=66 (resi) RMSD=1.13 (Å)</p> <p data-bbox="474 1503 2113 1558">gsfidiefpeEPPEWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd-----        -----PHPWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVK-----kfnslnelvdyrstsvsrnqqiflrdie</p> <p data-bbox="474 1608 1127 1638"><b>SARST:</b> aliSize=90 (resi) RMSD=11.64 (Å)</p> <p data-bbox="474 1638 1798 1692">gsfidiefpe--EPWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd--d        -----phPWFEGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrdie</p> <p data-bbox="474 1743 1590 1772"><b>BLAST:</b> aliSize=69 (resi) iden=53.68% (51/96) simi=72.63% (69/96)</p> <p data-bbox="474 1772 1798 1827">gsfidiefpe---WHEGLSRHQAEENLMG-KDIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd--        -----phpWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrdie</p> <p data-bbox="474 1877 1127 1906"><b>Proposed:</b> aliSize=93 (resi) RMSD=0.79 (Å)</p> <p data-bbox="474 1906 1774 1961">gsfidiefpeEPPEWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSI SVRHEDDVQHFKVMRDTKGNFYLWTEKfpslnklvdyrrttsiskqkvflrd--        -----PHPWFFGKIPRAKAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVLRDGAQKYFLWVVKFNSLNELVYHRSTSVSRNQIIFLrdie</p>

819	<p data-bbox="166 226 243 298">1r1pB (100)</p> <hr/> <p data-bbox="166 550 243 621">2aobB (93)</p>	C	53.76	<p data-bbox="468 180 1127 210"><b>TM-align:</b> aliSize=64 (resi) RMSD=1.68 (Å)</p> <p data-bbox="468 210 2101 264">gsfidiefpeWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfpslnklvdyyr-----Tiskqkqvflrd----- -----pWFGKIPRAKAEEMSKQRHDGAFLIRESE-SAPgDfSLSVKFGNDVQHFVKVLRDGAckYFLWVV-----kfnslnelvdyhrs-----svsrnqqiflrdi</p> <p data-bbox="468 315 1127 344"><b>SARST:</b> aliSize=89 (resi) RMSD=10.22 (Å)</p> <p data-bbox="468 344 1786 399">gsfidiefpeWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLR---d -----pWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p> <p data-bbox="468 449 1590 478"><b>BLAST:</b> aliSize=69 (resi) iden=54.84% (51/93) simi=74.19% (69/93)</p> <p data-bbox="468 478 1774 533">gsfidiefpeWHEGLSRHQAEENLMG-KDIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLRD- -----pWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p> <p data-bbox="468 583 1127 613"><b>Proposed:</b> aliSize=90 (resi) RMSD=1.22 (Å)</p> <p data-bbox="468 613 1774 667">gsfidiefpeWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLRD- -----pWFGKIPRAKAEEMSKQRHDGAFLIRESE-SAPgDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p>
820	<p data-bbox="166 869 243 940">1r1pB (100)</p> <hr/> <p data-bbox="166 1180 243 1251">2aobA (96)</p>	C	53.13	<p data-bbox="468 823 1127 852"><b>TM-align:</b> aliSize=69 (resi) RMSD=1.80 (Å)</p> <p data-bbox="468 852 2077 907">gsfidIEFpeWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEkfpslnklvdyyr-----Tiskqkqvflrd----- -----KPHPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVV-----kfnslnelvdyhrST-----svsrnqqiflrdi</p> <p data-bbox="468 957 1127 987"><b>SARST:</b> aliSize=90 (resi) RMSD=10.06 (Å)</p> <p data-bbox="468 987 1810 1041">gsfidiefp---EWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLR---d -----kphPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p> <p data-bbox="468 1092 1590 1121"><b>BLAST:</b> aliSize=69 (resi) iden=53.12% (51/96) simi=71.88% (69/96)</p> <p data-bbox="468 1121 1804 1176">gsfidiefpe---WHEGLSRHQAEENLMG-KDIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLRD- -----kphPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p> <p data-bbox="468 1226 1127 1255"><b>Proposed:</b> aliSize=94 (resi) RMSD=1.05 (Å)</p> <p data-bbox="468 1255 1762 1310">gsfidiEFPEWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLRD- -----KPHPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p>
821	<p data-bbox="166 1512 243 1583">1r1pB (100)</p> <hr/> <p data-bbox="166 1843 243 1915">2aoaA (93)</p>	C	55.91	<p data-bbox="468 1474 1127 1503"><b>TM-align:</b> aliSize=67 (resi) RMSD=1.63 (Å)</p> <p data-bbox="468 1503 2065 1558">gsfidieFpeWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEkfpslnklvdyyr-----Tiskqkqvflrd----- -----HPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVV-----kfnslnelvdyhrST-----svsrnqqiflrd</p> <p data-bbox="468 1608 1127 1638"><b>SARST:</b> aliSize=87 (resi) RMSD=9.75 (Å)</p> <p data-bbox="468 1638 1810 1692">gsfidiefp-EWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQV----flrd -----hPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p> <p data-bbox="468 1743 1590 1772"><b>BLAST:</b> aliSize=69 (resi) iden=54.84% (51/93) simi=74.19% (69/93)</p> <p data-bbox="468 1772 1774 1827">gsfidiefpe--WHEGLSRHQAEENLMG-KDIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLRD- -----hpWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p> <p data-bbox="468 1877 1127 1906"><b>Proposed:</b> aliSize=92 (resi) RMSD=0.98 (Å)</p> <p data-bbox="468 1906 1751 1961">gsfidieFpeWHEGLSRHQAEENLMGK-DIGFFIIRASQSSPGDFSISVRHEDDVQHFVKVMDTKGNFYFLWTEKfPSLNKLVDYRITTSISKQKQVFLRD- -----HPWFGKIPRAKAEEMSKQRHDGAFLIRESEAPGDfSLSVKFGNDVQHFVKVLRDGAckYFLWVVKfNSLNElVDYHRSTSVSRNOQIFLRdi</p>

822	<p>1fhsA (112)</p> <hr/> <p>2h5kB (96)</p>	C	90.63	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=2.14 (Å)  giemkPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESE-SAPgDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKfnslnelvdyrstsvsrnqqiflrdieqvpqqptyvqa-----  -----PHPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPG-DFSLSVKFGNDVQHFVLRD GAGKYFLWVVK-----kfnslnelvdyrstsvsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=12.11 (Å)  giemkphpw----FFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  -----phpwFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRDi-----</p> <p><b>BLAST:</b> aliSize=95 (resi) iden=100.00% (95/96) simi=100.00% (95/96)  giemkPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  -----PHPWFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRDi-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=1.73 (Å)  giemkPpHPWFFGKI PRAKAEEMLSKQRHDGAFI RESE-SAPgDFSLSVKFGNDVQHFVLRDgAG-KYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  ----P-HPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPG-DFSLSVKFGNDVQHFVLRD-GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-E-----</p>
823	<p>1fhsA (112)</p> <hr/> <p>2aobB (93)</p>	C	95.70	<p><b>TM-align:</b> aliSize=65 (resi) RMSD=1.80 (Å)  giemkphpwFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRDgAG-KYFLWVVKfnslnelvdyrstsvsrnqqiflrdieqvpqqptyvqa-----  -----P-WFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD-GAGKYFLWVVK-----kfnslnelvdyrstsvsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=10.69 (Å)  giemkphpwffgki-----PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  -----pwffgkiPRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRDi-----</p> <p><b>BLAST:</b> aliSize=93 (resi) iden=100.00% (93/93) simi=100.00% (93/93)  giemkphwFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  -----wFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRDi-----</p> <p><b>Proposed:</b> aliSize=92 (resi) RMSD=1.50 (Å)  giemkphpwFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRDgAG-KYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  -----P-WFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD-GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-E-----</p>
824	<p>1fhsA (112)</p> <hr/> <p>2aobA (96)</p>	C	91.67	<p><b>TM-align:</b> aliSize=68 (resi) RMSD=2.49 (Å)  giemkKPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESE-SAPgDFSLSVKFGNDVQHFVLRDgAG-KYFLWVVKfnslnelvdyr-----STsvsrnqqiflrdieqvpqqptyvqa-----  ----KPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPG-DFSLSVKFGNDVQHFVLRD-GAGKYFLWVVK-----kfnslnelvdyrST-----svsrnqqiflrdie</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=10.42 (Å)  giemkphpw----FFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  -----kphpwFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRDi-----</p> <p><b>BLAST:</b> aliSize=96 (resi) iden=100.00% (96/96) simi=100.00% (96/96)  giemkKPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  ----KPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESESAPGDFSLSVKFGNDVQHFVLRD GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRDi-----</p> <p><b>Proposed:</b> aliSize=93 (resi) RMSD=1.70 (Å)  giemk-KPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESE-SAPgDFSLSVKFGNDVQHFVLRDgAG-KYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-ievppqqptyvqa  ----k-KPHPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPG-DFSLSVKFGNDVQHFVLRD-GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD-E-----</p>

825	<p>1fhsA (112)</p> <p>2aoaA (93)</p>	C	92.47	<p><b>TM-align:</b> aliSize=66 (resi) RMSD=2.15 (Å)  giemkphPWFFGKI PRAKAEEMLSKQRHDGAFI RESE -SAPgDFSLSVKFGNDVQHFVKVLRDgAG-KYFLWVVKfns lnelvdyhr-----STsvs rnqqiflrdieqvpqqptyvqa-----  -----HPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPG-DFSLSVKFGNDVQHFVKVLRD-GAGKYFLWVV-----kfnslnelvdyhrST-----svs rnqqiflrd</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=9.63 (Å)  giemkphpw---FFGKI PRAKAEEMLSKQRHDGAFI RESEsAPGDFSLSVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHRSTSVSRNQOI----flrdieqvpqqptyvqa  -----hpwFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPGDFSLSVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHRSTSVSRNQOIflrd-----</p> <p><b>BLAST:</b> aliSize=93 (resi) iden=100.00% (93/93) simi=100.00% (93/93)  giemkphPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPGDFSLSVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHRSTSVSRNQOIFLRDIEQVPQQPTYVQA  -----HPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPGDFSLSVKFGNDVQHFVKVLRDgAGKYFLWVVKFNSLNELVDYHRSTSVSRNQOIFLRD-----</p> <p><b>Proposed:</b> aliSize=91 (resi) RMSD=1.57 (Å)  giemkphPWFFGKI PRAKAEEMLSKQRHDGAFI RESE -SAPgDFSLSVKFGNDVQHFVKVLRDgAG-KYFLWVVKFNSLNELVDYHRSTSVSRNQOIFLRDIEQVPQQPTYVQA  -----HPWFFGKI PRAKAEEMLSKQRHDGAFI RESEsAPG-DFSLSVKFGNDVQHFVKVLRD-GAGKYFLWVVKFNSLNELVDYHRSTSVSRNQOIFLRD-----</p>
826	<p>2zjzA (116)</p> <p>115eA (101)</p>	C	25.74	<p><b>TM-align:</b> aliSize=55 (resi) RMSD=2.35 (Å)  mQCNEANSCTGVELYIYIIRGDCINEDHPHATSTINLNYITGNDNRLEYPGESf gsscvkta lndght l tasc kgadgqyhdssmdl nyvvgnsygympcrasn-----Adhvlksss-----E-----  -LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQPSN-----fietcrntqlagsselaaecktraqqfvstkinlddhianidgtlkye</p> <p><b>SARST:</b> aliSize=95 (resi) RMSD=15.55 (Å)  mq-CNEANSCTGVELYIYIIRGDCINEDHPHATSTINLNYITGNDNRLEYPGESFGSSCVKIALNDGHTITASC KGADGQYHDSSMDLNYVVGNSYGYMEPCRASN-----adhvlkssse  --LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQPSNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIANIDGTLKYE-----tlkye-----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=25.74% (26/101) simi=46.53% (47/101)  mqcn---ANSCTGVELYIYIIRGDCINEDHPHATSTINLNYITGNDNRLEYPGESFGSSCVKIALNDGHTITASC KGADGQYHDSSMDLNYVVGNSYGYME--pcrasnadhvlkssse  ----lgkfsqtcynsaiqgsvltstcERTNGGYNTSSIDLNSV IENV DGS LK WQPSNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIANIDGTLKYE-----</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=1.27 (Å)  mQCNEANSCTGVELYIYIIRGDCINEDHPHATSTINLNYITGNDNRLEYP-gESFGSSCVKIALNDGHTITASC KGADGQYHDSSMDLNYVVGNSYGYMEPCRASNADHVLKSSSE  -LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQp-SNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIANIDGTLKYE-----</p>
827	<p>2z21A (102)</p> <p>115eA (101)</p>	N	94.06	<p><b>TM-align:</b> aliSize=52 (resi) RMSD=1.34 (Å)  LGNFSQACYNsAIQGSVLTSTCIRINGGYNTSSIDLNSV IENV DGS LK WQSNf ietcrntqlagsselaaecktraqqfvstkinlddhiaaidgtlkyel-----  LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQPS-----nfietcrntqlagsselaaecktraqqfvstkinlddhianidgtlkye</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=15.83 (Å)  l-LGNFSQACYNsAIQGSVLTSTCIRINGGYNTSSIDLNSV IENV DGS LK WQSNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIAAIDGTLKYE--el  -LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQPSNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIANIDGTLKYE--e--</p> <p><b>BLAST:</b> aliSize=96 (resi) iden=95.05% (96/101) simi=95.05% (96/101)  LGNFSQACYNsAIQGSVLTSTCIRINGGYNTSSIDLNSV IENV DGS LK WQSNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIAAIDGTLKYE1  LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQPSNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIANIDGTLKYE-</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=0.79 (Å)  LGNFSQACYNsAIQGSVLTSTCIRINGGYNTSSIDLNSV IENV DGS LK WQ-sNF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIAAIDGTLKYE1  LGKFSQTCYNSAIQGSVLTSTCERITNGGYNTSSIDLNSV IENV DGS LK WQp-s-NF IETCRNTQLAGSSELA AECKTRAQQFVSTKINLDDHIANIDGTLKYE-</p>

828	<p>2z21A (102)</p> <p>1lomA (101)</p>	N	94.06	<p>TM-align: aliSize=53 (resi) RMSD=2.05 (Å)  gnfsqacynsaiqgsvltstcirtnggyntssidn-----svienvdgs lkw-----OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLKYE1  -----lgkfsqt cynsaiqgsvltstcertnggyntssidn-----vienvdgs lkwOSPNIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE-</p> <p>SARST: aliSize=99 (resi) RMSD=16.41 (Å)  1-<b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>-e1  -1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OSPNIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>Y-e--</p> <p>BLAST: aliSize=95 (resi) iden=94.06% (95/101) simi=94.06% (95/101)  <b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>YE1  <b>LKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OSPNIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>YE-</p> <p>Proposed: aliSize=100 (resi) RMSD=0.71 (Å)  <b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OG-sNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>YE1  <b>LKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OSP-NFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>YE-</p>
829	<p>2rdkA (101)</p> <p>115eA (101)</p>	N	93.07	<p>TM-align: aliSize=54 (resi) RMSD=2.03 (Å)  gnfsqacynsaiqgsvltstcirtnggyntssidn-----NSVIenvdgs lkw-----GS-NFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLKYE1  -----lgkfsqt cynsaiqgsvltstcertnggyntssidn-----NSVIenvdgs lkwQPSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE-</p> <p>SARST: aliSize=98 (resi) RMSD=15.75 (Å)  g--<b>NFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>-e1  -1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>QPSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>Y-e--</p> <p>BLAST: aliSize=95 (resi) iden=94.06% (95/101) simi=94.06% (95/101)  <b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>YE1  <b>LKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>QPSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>YE-</p> <p>Proposed: aliSize=99 (resi) RMSD=0.79 (Å)  <b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OG-sNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>YE1  <b>LKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>QPS-NFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>YE-</p>
830	<p>2rdkA (101)</p> <p>1lomA (101)</p>	N	93.07	<p>TM-align: aliSize=53 (resi) RMSD=2.05 (Å)  gnfsqacynsaiqgsvltstcirtnggyntssidn-----svienvdgs lkw-----OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLKYE1  -----lgkfsqt cynsaiqgsvltstcertnggyntssidn-----vienvdgs lkwOSPNIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE-</p> <p>SARST: aliSize=98 (resi) RMSD=16.32 (Å)  g--<b>NFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>-e1  -1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OSPNIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>Y-e--</p> <p>BLAST: aliSize=94 (resi) iden=93.07% (94/101) simi=93.07% (94/101)  <b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>YE1  <b>LKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OSPNIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>YE-</p> <p>Proposed: aliSize=99 (resi) RMSD=0.69 (Å)  <b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OG-sNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAAIDGTLK</b>YE1  <b>LKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENVDGSLKW<b>OSP-NFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLK</b>YE-</p>

831	2z21B (102)	N	93.07	<p>TM-align: aliSize=51 (resi) RMSD=1.27 (Å)  -<b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle-----  1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPS</b>-----<b>nf</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYE</p> <p>SARST: aliSize=98 (resi) RMSD=15.81 (Å)  g--<b>NFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  -l<b>gKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYEe---</p> <p>BLAST: aliSize=95 (resi) iden=94.06% (95/101) simi=94.06% (95/101)  -<b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYE---</p> <p>Proposed: aliSize=99 (resi) RMSD=0.74 (Å)  -<b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYE---</p>
832	2z21B (102)	N	93.07	<p>TM-align: aliSize=53 (resi) RMSD=2.02 (Å)  gnfsqacynsaiqgsvlststcirtnggyntssidln-----svienvdgsikw-----<b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  -----lgkfsqtcynsaiqgsvlststcirtnggyntssidln-----vienvdgsikw<b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYE---</p> <p>SARST: aliSize=98 (resi) RMSD=16.37 (Å)  g--<b>NFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  -l<b>gKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYEe---</p> <p>BLAST: aliSize=94 (resi) iden=93.07% (94/101) simi=93.07% (94/101)  -<b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYE---</p> <p>Proposed: aliSize=99 (resi) RMSD=0.65 (Å)  -<b>GNFSQACYN</b>SAIQGSVLTSTCI<b>RTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QGSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIAAIDGTLKYEle  1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGSSELA<b>AECKTRAQ</b>QFVSTKINLDDHIANIDGTLKYE---</p>
833	2jzkA (103)	N	25.74	<p>TM-align: aliSize=50 (resi) RMSD=1.19 (Å)  -----MSYADSSR<b>NAVL</b>Tng<b>RT</b>RA<b>ECRNAD</b>GN<b>WV</b>SE<b>LDL</b>DT<b>CG</b>NP<b>CF</b>LG<b>GMQNF</b>SH<b>SSEDI</b>KL<b>eEG</b>GR<b>K</b>TCR<b>pKT</b>VD<b>GGFRERQ</b>g<b>IDL</b>-<b>NR</b>IQ<b>VN</b>GR<b>V</b>FQ  lgkfsqtcynsaiqgsvlststcirtnggyntssidlnsvienvdgsikw<b>QPSNF</b>IETCRNTQLAGS-<b>SELA</b>AE<b>CKTRAQ</b>QF<b>VSTK</b>IN<b>LDDH</b>IA<b>IIDGTL</b>KYE-----</p> <p>SARST: aliSize=96 (resi) RMSD=15.35 (Å)  ms---<b>YADSSR</b><b>NAVL</b>Tng<b>RT</b>RA<b>ECRNAD</b>GN<b>WV</b>SE<b>LDL</b>DT<b>CG</b>NP<b>CF</b>LG<b>GMQNF</b>SH<b>SSEDI</b>KL<b>eEG</b>GR<b>K</b>TCR<b>pKT</b>VD<b>GGFRERQ</b>g<b>IDL</b>-<b>NR</b>IQ<b>VN</b>GR<b>V</b>FQ  --l<b>gKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGS-<b>SELA</b>AE<b>CKTRAQ</b>QF<b>VSTK</b>IN<b>LDDH</b>IA<b>IIDGTL</b>KYE-</p> <p>BLAST: aliSize=45 (resi) iden=26.73% (27/101) simi=44.55% (45/101)  msyadssrnavltngrtraecrnadgnwvselldtctgpnfcflg<b>GMQNF</b>SH<b>SSEDI</b>KL<b>eEG</b>GR<b>K</b>TCR<b>pKT</b>VD<b>GGFRERQ</b>g<b>IDL</b>-<b>NR</b>IQ<b>VN</b>GR<b>V</b>FQ  -----lgkfsqtcynsaiqgsvlststcirtnggyntssidlnsvienvdgsikw<b>QPSNF</b>IETCRNTQLAGS-<b>SELA</b>AE<b>CKTRAQ</b>QF<b>VSTK</b>IN<b>LDDH</b>IA<b>IIDGTL</b>KYE</p> <p>Proposed: aliSize=95 (resi) RMSD=1.43 (Å)  -MSYADSSR<b>NAVL</b>Tng<b>RT</b>RA<b>ECRNAD</b>GN<b>WV</b>SE<b>LDL</b>DT<b>CG</b>NP<b>CF</b>LG<b>GMQNF</b>SH<b>SSEDI</b>KL<b>eEG</b>GR<b>K</b>TCR<b>pKT</b>VD<b>GGFRERQ</b>g<b>IDL</b>-<b>NR</b>IQ<b>VN</b>GR<b>V</b>FQ  1<b>GKFSQTCYNSA</b>IQGSVLTSTC<b>ERTNGGYNTSSIDLNSV</b>IENV<b>DGSLKW</b><b>QPSNF</b>IETCRNTQLAGS-<b>SELA</b>AE<b>CKTRAQ</b>QF<b>VSTK</b>IN<b>LDDH</b>IA<b>IIDGTL</b>KYE</p>

834	2rdkB (99)	N	93.94	<p>TM-align: aliSize=55 (resi) RMSD=2.26 (Å)  nfsqacynsaiqgsvlststcirtnggyntssidl-----NSV ienvdgs lkw-----OGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLKYE  -----lgkfsqt cynsaiqgsvlststcirtnggyntssidlNSV-----ienvdgs lkwOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLKYE</p> <p>SARST: aliSize=97 (resi) RMSD=15.70 (Å)  n---FSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  -lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p> <p>BLAST: aliSize=94 (resi) iden=94.95% (94/99) simi=94.95% (94/99)  n---FSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  -lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p> <p>Proposed: aliSize=98 (resi) RMSD=0.73 (Å)  --NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOG-sNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPs-NF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p>
835	2rdkB (99)	N	93.94	<p>TM-align: aliSize=53 (resi) RMSD=2.02 (Å)  nfsqacynsaiqgsvlststcirtnggyntssidln-----vienvdgs lkw-----OGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  -----lgkfsqt cynsaiqgsvlststcirtnggyntssidlnS-----vienvdgs lkwOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p> <p>SARST: aliSize=97 (resi) RMSD=16.28 (Å)  n---FSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  -lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p> <p>BLAST: aliSize=93 (resi) iden=93.94% (93/99) simi=93.94% (93/99)  n---FSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  -lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p> <p>Proposed: aliSize=98 (resi) RMSD=0.64 (Å)  --NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOG-sNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-e  lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPs-NF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e</p>
836	2pysB (103)	N	93.07	<p>TM-align: aliSize=51 (resi) RMSD=1.29 (Å)  - NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNfi ietcrintqlagsselaaecktraqqfvstkinlddhiaaidgtlk yele h-----  lKFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPs-----ni ietcrintqlagsselaaecktraqqfvstkinlddhianidgtlk ye</p> <p>SARST: aliSize=98 (resi) RMSD=15.82 (Å)  g--NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-ele h  -lgkFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y-e----</p> <p>BLAST: aliSize=95 (resi) iden=94.06% (95/101) simi=94.06% (95/101)  - NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOGSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-le h  lKFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPSNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y----</p> <p>Proposed: aliSize=99 (resi) RMSD=0.73 (Å)  - NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSV IENV DGLK WOG-sNF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIAAIDGTLK Y-le h  lKFSQTCYNsAIQGSVLTSTC ER TNGGYNTSSIDLNSV IENV DGLK WOPs-NF IETCRNTQLAGSSELAAECKTRAQQFVSTKINLDDHIANIDGTLK Y----</p>
	115eA (101)			

837	<p>2pysB (103)</p> <hr/> <p>1lomA (101)</p>	N	93.07	<p><b>TM-align:</b> aliSize=53 (resi) RMSD=2.00 (Å)  gnfsqacynsaiqgsvltstcirtnggyntssidln-----svienvdgs1kw-----OGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAADGTLKYEleh  -----lgkfsqtcynsaiqgsvltstcirtnggyntssidln-----vienvdgs1kw-----OSPFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE----</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=16.39 (Å)  g--NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSVIENVdGSLKwOGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAADGTLKYE-leh  -lgKFSQTCYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSVIENVdGSLKwOSPFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYEe----</p> <p><b>BLAST:</b> aliSize=94 (resi) iden=93.07% (94/101) simi=93.07% (94/101)  -NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSVIENVdGSLKwOGSNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAADGTLKYEleh  -lgKFSQTCYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSVIENVdGSLKwOSPFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=0.63 (Å)  -NFSQACYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSVIENVdGSLKwOG-sNFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIAADGTLKYEleh  -lgKFSQTCYNsAIQGSVLTSTCI RTNGGYNTSSIDLNSVIENVdGSLKwOSP-nFIETCRNTQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE----</p>
838	<p>2vq8A (128)</p> <hr/> <p>1h8xA (125)</p>	N	25.60	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.91 (Å)  hmqpehvkyknflnqhvqgdm-----SV--Q-RCNSEIGpnNRKI lsgtDNGCKPVNTHILANKRLIKTVCGraGSPQG-----MVRSNQFPVVKVILN-NGERhPYEYRGTSTRSTRYTLVKCEE--GWVPHYHEDevn--  -----kesaaakferqhmdsgnSPSSsTYCNQMMRRRNM--RRNM-----QGRCKPVNTHVHEPLVDVQNVCFQEKVTckngqgCYKSNSSMHITDRLTnGSRYP-NCAVRTSOKERHIIVACEGspYVPVHFDASe----</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=13.18 (Å)  hmqpehvke---RYKNFLNQHVGPDM--VORCNSEIGPNNRKI lsgtdngCKPVNTHILANKRLIKTVCGRAGSPQG----MVRSNQFPVVKVILNNGERHPYCEYRGTSTRSTRYTLVKCEE--WPHY-----hedevn  -----kesAAAKFERQHMDSGNSPSSSTYCNQMMRRRNM--RRNM-----QGRCKPVNTHVHEPLVDVQNVCFQEKVTCKngqgCYKSNSSMHITDRLTnGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=31.20% (39/125) simi=44.00% (55/125)  hmqpehvkykn-----FLNQHV---GPDMSVORCNSEIGPNNRKI lsgtDNGCKPVNTHILANKRLIKTVCGR----AGSPQGMVRSNQFPVVKVILNNGERHPYCEYRGTSTRSTRYTLVKCEE--WPHY-----hedevn  -----kesaaakFERQHMDsgnSPSSSTYCNQMMRRRNM-----QGRCKPVNTHVHEPLVDVQNVCFQekvtCKNGGNCYKSNSSMHITDRLTnGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFdasve-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=1.71 (Å)  hmqpehv-KERYKNFLNQHVGPDMsVQ---RCNSEIGpnNRKI lsgtDNGCKPVNTHILANKRLIKTVCGraGSPQG-----MVRSNQFPVVKVILN-NGERhPYEYRGTSTRSTRYTLVKCEE--GWVPHYHED--evn  -----kESAAAKFERQHMDSGNSPSSsTYCNQMMRRRNM--RRNM-----QGRCKPVNTHVHEPLVDVQNVCFQEKVTckngqgCYKSNSSMHITDRLTnGSRYP-NCAVRTSOKERHIIVACEGspYVPVHFDASeve---</p>
839	<p>1pu3A (105)</p> <hr/> <p>1h8xA (125)</p>	N	21.90	<p><b>TM-align:</b> aliSize=87 (resi) RMSD=2.61 (Å)  mqdwltfqkhi tnt-----R--DVDNDILSTNLfH---CKDKNTFIYSRPEPKAIKKG-Iia-----SKNVLTTSEFYLSDCNVTSRP----KYLKSTNKFCVTCEN--QAPVHFGVGSsc  -----kesaaakferqhmdsgnspSSsTYCNQMMRRRNMtqgrCKPVNTHVHEPLVDVQNVCFQEK--vtckngqgCYKSNSSMHITDRLTnGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDASeve-</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=3.46 (Å)  mqdwltfqkhi tntrdvd-----CDNILSTNLfHCKDKNTFIYSRPEPKAIKGI IAS-----KNVLTTSEFYLSDCNVTsrPC-----KYLKSTNKFCVTCEN--QAPVHFGVGS-sc  -----kesaaakferqhmdsgnspSSsTYCNQMMRRRNMtqgrCKPVNTHVHEPLVDVQNVCFQEKVTckngqgCYKSNSSMHITDRLTnGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDASeve--</p> <p><b>BLAST:</b> aliSize=38 (resi) iden=23.81% (25/105) simi=36.19% (38/105)  mqdwltfqkhi tntrdvdcnildstnlfh-----CKDKNTFIYSRPEPKAIK-KGI IASKN-----VLTTSSEFYLSDCNVT--SH--P--KYLKSTNKFCVTCENQ--APVH-----vvgvsc  -----kesaaakferqhmdsgnspSSsTYCNQMMRRRNMtqgrCKPVNTHVHEPLVDVQNVCFQEKVTCKngqgncYKSNSSMHITDRLTnGSRYPNCAVRTSOKERHIIVACEGspYVPVHFdasve-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.58 (Å)  -MQDWLTFQKHIITN-TRD-----VDNDILST-nLFH---CKDKNTFIYSRPEPKAIK-----giaSKNVLTTSEFYLSDCNVTSRP----KYLKSTNKFCVTCEN--QAPVHFGVGS-sc  kESAAAKFERQHMDSGNSPSSsTYCNQMMRRR-NMTqgrCKPVNTHVHEPLVDVQNVCFQekvtckngq----GNCYKSNSSMHITDRLTnGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDASeve--</p>



840	<p>1un4A (119)</p> <hr/> <p>1h8xA (125)</p>	N 34.45	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=1.99 (Å)  nsrythflrqhydakpq-----GR-DDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKATCEnknGNPHRE----NLRISSSFQVIAKIHGGSPWPPQYRATAGFRNVVACEN--GLPVHLQSIfr  -----kesaaakferqhmdsgnsPSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgCYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-SVE-</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=14.76 (Å)  ns---RYTHFLROHYDAKP---QGRddrYCESIMRRRGLTS-PCKDINTFIHGKRSIKATC-----ENKNGNPHrenLRISSSFQVIAKIHGGSPWPPQYRATAGFRNVVACEN--GLPVHL----dqsifr  --kesAAAKFERQHMDSGNSpssSST---YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFqekvtCKNGQGN---CYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=37.82% (45/119) simi=55.46% (66/119)  nsryth-----FLROHYDA--KPOGrDDRICESIMRRRGLTSP-CKDINTFIHG---NKRSL----KATCENKNGNPHREnriskSSSFQVIAKIHGGSPWPPQYRATAGFRNVVACEN--LPVHLQSI-fr  -----kesaaakFERQHMDSGNSpSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEPlVDVQNVcfqekvtCKNGQGCYKSN-----SSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve--</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.48 (Å)  n--SRYTHFLROHYDAKPOGR--ddRYCESIMRRRGLTS-PCKDINTFIHGKRSIKATCEnknGNPHRE----NLRISSSFQVIAKIHGGSPWPPQYRATAGFRNVVACEN--GLPVHLQsI--fr  -keSAAAKFERQHMDSGNSpSSsS--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgCYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve--</p>
841	<p>1rmfA (120)</p> <hr/> <p>1h8xA (125)</p>	N 41.67	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=1.66 (Å)  mqdgmqrflrqhvhpet-----GG-SDRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSLSTTNIQCK-NGKMNCHEG--VVKVTDCRDIGSSRAFPNCRRAIASTRRVVIACEGNFQVPVHFDG---  -----kesaaakferqhmdsgnsPSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGN-CYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=13.01 (Å)  mqdgm---MYQRFLROHVHPPEtggSDR---TCNLMQRKMTLYHCKRFNTFIHEDIWNIRSLSTTNIQCKNGKMNCHEG--GVVKVTDCRDIGSSRAFPNCRRAIASTRRVVIACEGNFQVPVHFDG---g  ---kesAAAKFERQHMDSGNSpSSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGCYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=73 (resi) iden=43.33% (52/120) simi=60.83% (73/120)  mqdgmqr-----RFLROHVHPPEETGGSDRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSLSTTNIQCKNGKMNCHEG--GVVKVTDCRDIGSSRAFPNCRRAIASTRRVVIACEGNFQVPVHFDG---g  -----kesaaakFERQHMDSGNSpSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGCYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFdasve-----</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.37 (Å)  mqd--GMYQRFLROHVHPPEETGG--SdRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSLSTTNIQCK-NGKMNCHEG--VVKVTDCRDIGSSRAFPNCRRAIASTRRVVIACEGNFQVPVHFDG---  ---keSAAAKFERQHMDSGNSpSSsS-TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQGN-CYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve</p>
842	<p>2j4tA (119)</p> <hr/> <p>1h8xA (125)</p>	N 36.13	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=1.75 (Å)  neryekflrqhydakpq-----GR-DDRYCESMMKERKLTSP-CKDINTFIHGTTKNIRAITGkkGSPYG----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYIVIACED--GWPVHFD-EsFIsP  -----kesaaakferqhmdsgnsPSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqG-CYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-SV-E</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=13.70 (Å)  ne---RYEKFLROHYDAKPOGrddr---YCESMMKERKLTSP-CKDINTFIHGTTKNIRAIT-----GKKGSPYgenFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYIVIACED--GWPVHF----desfisp  --kesAAAKFERQHMDSGNS--PSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFqekvtCKNGQGN---CYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=62 (resi) iden=39.50% (47/119) simi=52.10% (62/119)  nerye-----KFLROHYDA--KPOGrDDRICESMMKERKLTSP-CKDINTFIHGTTKNIRAIT--GKKGSPYgenFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYIVIACEDG--WVPVHFD--fisp  -----kesaaakFERQHMDSGNSpSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFqekvtCKNGQGCYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.56 (Å)  n--ERYEKFLROHYDAKPO--GRDdrYCESMMKERKLTSP-CKDINTFIHGTTKNIRAITGkkGSPYG----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYIVIACED--GWPVHFD-EsFIsP  -keSAAAKFERQHMDSGNSpSSS-TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqG-CYKSNSSMHIIDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-SV-E</p>

843	<p>1bleA (123)</p> <hr/> <p>1h8xA (125)</p>	N	32.52	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=1.99 (Å)  qdnsrythfl tqhyda kpg-----GR-DDRYCESIMRRRGLTSP-PODINTFIHGKRSIKATC-EnknGNPHRE----NLRI SKSSFQVITTKLHGGSPPWPPQYRATAGFRNvvVACEN--GLPVHLDQsIFrRp  -----kesaaakferqhmdsgnsPSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgCYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-SV-E-</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=13.80 (Å)  qdns---RYTHLTOHYDAKP---QGRddrYCESIMRRRGLTSP-PODINTFIHGKRSIKATC-----ENKNGNPHrenLRI SKSSFQVITTKLHGGSPPWPPQYRATAGFRNvvVACEN--GLPVHL-----dqsi frrp  ---kesAAAKFERQHMDSGNSpsSST---YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFqekvtCKNGOGN---CYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=35.77% (44/123) simi=53.66% (66/123)  qdnsryth-----LTOHYDA--KPGQfDDRYCESIMRRRGLTSP-PODINTFIHG---NKRSI-----KAITENKNGNPHRENlrisKSSFQVITTKLHGGSPPWPPQYRATAGFRNvvVACENGL--LPVHLQSI-frrp  -----kesaaakFERQHMDSGNSpSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEplvDVQNVCFqekvtCKNGOGNCKYSN-----SSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFASve----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.63 (Å)  QdNSRYTHLTOHYDAKPGQR---ddRYCESIMRRRGLTSP-PODINTFIHGKRSIKATC-EnknGNPHRE----NLRI SKSSFQVITTKLHGGSPPWPPQYRATAGFRNvvVACEN--GLPVHLDQsI--frrp  K-ESAAAKFERQHMDSGNSpSSsSs--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF---QEKVTCKngqgCYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve----</p>
844	<p>2hkyA (129)</p> <hr/> <p>1h8xA (125)</p>	N	33.60	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.94 (Å)  mkpkgmtssqwFkiqhmqpsp-----QACNSANK--NINKhtKRCKDLNTHLHEPFSSVAATCQTPKIAQ---KngDkNCHQSHGVPVSLTMCKLT-SGKYPNCRKKEKRONKSYVVACKPPqkksqqFHLVPVHLDRVL-  -----kesaaakferqhmdsgnspsSSsTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKngQ--G-NCYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFASVe</p> <p><b>SARST:</b> aliSize=114 (resi) RMSD=14.12 (Å)  mkpkg-MTSSQWFKIQHMQPSPQA-CNS---AMKNI NKHTRCKDLNTHLHEPFSSVAATCQTPKIAQ---KngDkNCHQSHGVPVSLTMCKLTSGKYPNCRKKEKRONKSYVVACKPPqkksqqFHLVPVHLDRV--1  ----kESAAAKFERQHMDSGNSpSSsTYCNQMMRRRNMTQGRckpvNTEFVHEPLVDVQNVCFQEKVTCKNGOGNCKYSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACE-----GSPYVPVHFASve-</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=37.60% (47/125) simi=54.40% (68/125)  mkpkgmtssqw-----FKIQHMQP--SPOA-----NSANKNI NKHTRCKDLNTHLHEPFSSVAATCQTPKIAQ---KngDkNCHQSHGVPVSLTMCKLTSGKYPNCRKKEKRONKSYVVACKPPqkksqqFHLVPVHLDRV--1  -----kesaaakFERQHMDSGNSpSSsTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACE-----EGSPYVPVHFASve---</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.78 (Å)  mkpkgMTSSQWFKIQHMQPSPQ-----ACNSANK--NINKhtKRCKDLNTHLHEPFSSVAATCQTPKIAQ---KngDkNCHQSHGVPVSLTMCKLT-SGKYPNCRKKEKRONKSYVVACKPPqkksqqFHLVPVHLDRVL-  ---K-ESAAAKFERQHMDSGNSpSSsTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKngQ--G-NCYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFASVe</p>
845	<p>1m58A (106)</p> <hr/> <p>1h8xA (125)</p>	N	23.58	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=2.58 (Å)  mqnwetfqkhltdlr-----DVKCDAEKKAALFD---CKQKNTFIYARPGRQALCKN-Iv-----SKNVLSTDEFYLSDCNRIK-LP---CHYKLLKSSNTICITCEN--KLPVHVVVEEcp  -----kesaaakferqhmdsgnspsSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEK---vtckngqGNCYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-SVE---</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=14.42 (Å)  mqn-----WETfQKK---HLTDTRDVKCDAEKKAALFD---CKQKNTFIYARPGRQALCKN-Iv-----SKNVLSTDEFYLSDCNRIK-LP---CHYKLLKSSNTICITCEN--KLPVHVVVEEcp  ---kesaaAKFERQHmdsgnsPSsSSTYCNQMMRRRNMTQgrCKPVNTFVHEPLVDVQNVCFqekvtckngqgncyksSNSSMHITDRLTNGS-----RYNCAVRTSokerHIIVACEGSPYVPVHFdasve----</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=28.30% (30/106) simi=49.06% (52/106)  mqnwet-----QKKHLTD---TRDVKCDAEKKAALFD---CKQKNTFIYARPGRQALCKN-IvSKNVLSTDEFYLSDCNRIK-LP---CHYKLLKSSNTICITCEN--KLPVHVVVEEcp  -----kesaaakFERQHMDSGNSpSSSTYCNQMMRRRNMTQgrCKPVNTFVHEPLVDVQNVCFQEKVTCKngqncyksSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGSPYVPVHFdasve---</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.07 (Å)  -MQNWETQKKHLTDTRDV-----KCDAEKKAALFD---CKQKNTFIYARPGRQALCKN-Iv-----SKNVLSTDEFYLSDCNRIK-LP---CHYKLLKSSNTICITCEN--KLPVHVVVEEcp  kESAAAKFERQHMDSGNSPSSsSTYCNQMMRRRNMTQgrCKPVNTFVHEPLVDVQNVCFqekvtckngq---GNCYKSNSSMHITDRLTNGSRYPNCAVRTSOKERHIIVACEGspYVPVHFDA-Sve---</p>

846	<p>2e0oB (125)</p> <p>1h8xA (125)</p>	N	86.40	<p>TM-align: aliSize=105 (resi) RMSD=1.39 (Å)  mkesrakkfqrqhmds <b>ssp-----SS-SST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe  -----kesaakferqhmdsg <b>nsPSsSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p> <p>SARST: aliSize=122 (resi) RMSD=14.14 (Å)  mk- <b>ESRKKFQROHMDS</b> <b>DSSPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe--v  --k <b>ESAAAKFEROHMDS</b> <b>GNSPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASeve-</p> <p>BLAST: aliSize=117 (resi) iden=91.20% (114/125) simi=93.60% (117/125)  m <b>KESRKKFQROHMDS</b> <b>DSSPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe-  - <b>KESAAAKFEROHMDS</b> <b>GNSPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p> <p>Proposed: aliSize=121 (resi) RMSD=0.95 (Å)  m <b>KESRKKFQROHMDS</b> <b>DSSPS--ssST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLLLVQLVCLQEKVTCK-NGQg-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe-  - <b>KESAAAKFEROHMDS</b> <b>GNSPSSs--ST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKnGQG-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p>
847	<p>1ymnA (124)</p> <p>1h8xA (125)</p>	N	69.35	<p>TM-align: aliSize=105 (resi) RMSD=1.80 (Å)  ketaaakferqhmds <b>ts-----AASSS</b> NYCQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNACKNGQTCYQSYSTMSITDCRETGSSKLPNCAYKITQANKHIIVACEGNPYVPVHFDASe-  -----kesaakferqhmdsg <b>nsPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKnGQG-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p> <p>SARST: aliSize=119 (resi) RMSD=14.46 (Å)  k- <b>ETAAAKFEROHMDS</b> <b>ST---SAASs</b> NYCQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNACKNGQTCYQSYSTMSITDCRETGSSKLPNCAYKITQANKHIIVACEGNPYVPVHFDASe--v  -k <b>ESAAAKFEROHMDS</b> <b>GNspsSSS---</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASeve-</p> <p>BLAST: aliSize=103 (resi) iden=72.58% (90/124) simi=83.06% (103/124)  <b>KETAAAKFEROHMDS</b> <b>STAAASSS</b> NYCQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNACKNGQTCYQSYSTMSITDCRETGSSKLPNCAYKITQANKHIIVACEGNPYVPVHFDASe-  <b>KESAAAKFEROHMDS</b> <b>GNSPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p> <p>Proposed: aliSize=122 (resi) RMSD=1.13 (Å)  <b>KETAAAKFEROHMDS</b> <b>STsAAS-SS</b> NYCQMMKSRNLTQDRCKPVNTFVHESLADVQAVCSOKNACK-NGQt-NCYQSYSTMSITDCRETGSSKLPNCAYKITQANKHIIVACEGNPYVPVHFDASe-  <b>KESAAAKFEROHMDS</b> <b>GN-SPsSSS---</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKnGQG-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p>
848	<p>1a5pA (124)</p> <p>1h8xA (125)</p>	N	68.55	<p>TM-align: aliSize=105 (resi) RMSD=1.67 (Å)  ketaaakferqhmds <b>ts-----AAs-SS</b> NYCQMMKSRNLTQDRAPVNTFVHESLADVQAVCSOKNACKNGQTCYQSYSTMSITDCRETGSSKYPNAAKITQANKHIIVACEGNPYVPVHFDASe-  -----kesaakferqhmdsg <b>nsPS-sSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p> <p>SARST: aliSize=119 (resi) RMSD=14.37 (Å)  k- <b>ETAAAKFEROHMDS</b> <b>ST---SAAss</b> NYCQMMKSRNLTQDRAPVNTFVHESLADVQAVCSOKNACKNGQTCYQSYSTMSITDCRETGSSKYPNAAKITQANKHIIVACEGNPYVPVHFDASe--v  -k <b>ESAAAKFEROHMDS</b> <b>GNspsSSS---</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASeve-</p> <p>BLAST: aliSize=102 (resi) iden=71.77% (89/124) simi=82.26% (102/124)  <b>KETAAAKFEROHMDS</b> <b>STAAASSS</b> NYCQMMKSRNLTQDRAPVNTFVHESLADVQAVCSOKNACKNGQTCYQSYSTMSITDCRETGSSKYPNAAKITQANKHIIVACEGNPYVPVHFDASe-  <b>KESAAAKFEROHMDS</b> <b>GNSPSSSST</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCKYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p> <p>Proposed: aliSize=122 (resi) RMSD=1.05 (Å)  <b>KETAAAKFEROHMDS</b> <b>STsAA-SSS</b> NYCQMMKSRNLTQDRAPVNTFVHESLADVQAVCSOKNACK-NGQt-NCYQSYSTMSITDCRETGSSKYPNAAKITQANKHIIVACEGNPYVPVHFDASe-  <b>KESAAAKFEROHMDS</b> <b>GN-SPsSSS---</b> YCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKnGQG-NCYKSNSSSMHITDCRLTNGSRYPCAYRTSPKERHIIVACEGSPYVPVHFDASe</p>

849	<p>2bw1A (118)</p> <p>1h8xA (125)</p>	N	37.29	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.85 (Å)  ddsrytkfl tqhhda kpkgr-----RD--DRY CERMMKRRSLTS-PCKDINTFIHGKNSNIKAI C GanGSPYRE-----NLRMSKSPFOVITTKHIGGSPRPPOYRASAGFRHVVIACEN--GLPVHFD E S F F  -----kesaaakferqhmdsgnsPSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF--QEKVTCKngqgCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFDA S VE</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=14.53 (Å)  dd--SRYTKFLTOHHDAKPKgrDDR----YCERMMKRRSLTS-PCKDINTFIHGKNSNIKAI C G-----ANGSPYrenLRMSKSPFOVITTKHIGGSPRPPOYRASAGFRHVVIACEN--GLPVHFD-----desf  --keSAAAKFERQHMDSGN---SPSsSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQekvtckNGQGN---CYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFdasve----</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=39.32% (46/118) simi=54.70% (64/118)  d--DSRYTKFLTOHHDA--KPKGrDDR Y CERMMKRRSLTS-PCKDINTFIHGKNSNIKAI C GANGSPYRE---NLRMSKSPFOVITTKHIGGSPRPPOYRASAGFRHVVIACEN--LPVHFD E S --f  --kesAAAKFERQHMDsgnSPSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKngqgCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFDA S ve-</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.56 (Å)  DDSRYTKFLTOHHDAKPKGR---ddRY CERMMKRRSLTS-PCKDINTFIHGKNSNIKAI C GanGSPYRE-----NLRMSKSPFOVITTKHIGGSPRPPOYRASAGFRHVVIACEN--GLPVHFD E s F - F  KE SAAAKFERQHMDSGNSPSSs--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCF--QEKVTCKngqgCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFDA -SvE</p>
850	<p>1gy7A (123)</p> <p>1h8xA (125)</p>	N	40.65	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=2.17 (Å)  dnsrythfl tqhydak bq-----GR-DDRY CESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSKNVACKNGQ TNCYISKSSFOVITTKLHGGSPPWPCOYRATAGFRNVVACEN--GLPVHLDQsIFR  -----kesaaakferqhmdsgnsPSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFDA -SVE</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=15.31 (Å)  dns---RYTHFLTOHYDAKP---QGRddrY CESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSKNVACKN-----GQTncyiskssfqvttcklhggspwPPOYRATAGFRNVVACEN--GLPVHL-----dqsifr  ---kesAAAKFERQHMDSGNSpsSSTI---TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKngqncyksnssmhitdcrlnGSR-----YPNCAAYRTSQKERHII VACEGspYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=69 (resi) iden=41.80% (51/123) simi=56.56% (69/123)  dnsryth-----LTQHYDA--KPOGrDDRY CESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSKNVACKNGQ TNCYISKSSFOVITTKLHGGSPPWPCOYRATAGFRNVVACEN--LPVHLDQsI -fr  -----kesaaakFERQHMDsgnSPSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFDA S ve--</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.67 (Å)  pDNSRYTHFLTOHYDAKPOGR---ddRY CESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSKNVACKNGQ TNCYISKSSFOVITTKLHGGSPPWPCOYRATAGFRNVVACEN--GLPVHLDQsI--fr  --KESAAAKFERQHMDSGNSPSSs--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGspYVPVHFDA -Sve--</p>
851	<p>1rraA (124)</p> <p>1h8xA (125)</p>	N	62.10	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.31 (Å)  aessadkfrqhmdte gps-----KS-SPTYCNQMMKROGMTKCSCKPVNTFVHEPLEDVQAI CS GOVTC-KNGRnNCHKSSSTLRITDCRLKGS SKYPNCDYTTTDSQKHII IACDGNPYVPVHFDA S V -  -----kesaaakferqhmdsgnsPSsSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGSPYVPVHFDA S ve</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=14.28 (Å)  a--SSADKFKROHMDTEGP--SKSspTYCNQMMKROGMTKCSCKPVNTFVHEPLEDVQAI CS GOVTCNGRNCHKSSSTLRITDCRLKGS SKYPNCDYTTTDSQKHII IACDGNPYVPVHFDA S --v  --kesAAAKFERQHMDSGNSpsSSS--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGSPYVPVHFDA S ve-</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=65.32% (81/124) simi=81.45% (101/124)  a--SSADKFKROHMDTEGPSKSSPT YCNQMMKROGMTKCSCKPVNTFVHEPLEDVQAI CS GOVTCNGRNCHKSSSTLRITDCRLKGS SKYPNCDYTTTDSQKHII IACDGNPYVPVHFDA S V -  --kesAAAKFERQHMDSGNSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGSPYVPVHFDA S ve</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.14 (Å)  AESSADKFKROHMDTEGPSK-SsPTYCNQMMKROGMTKCSCKPVNTFVHEPLEDVQAI CS GOVTC-KNGRnNCHKSSSTLRITDCRLKGS SKYPNCDYTTTDSQKHII IACDGNPYVPVHFDA S V -  KESAAAKFERQHMDSGNSPSSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGQNCYKSNSSMHIIDRLTNGSRYPNCAAYRTSQKERHII VACEGSPYVPVHFDA S ve</p>

852	<p>2q4gX (126)</p> <p>1h8xA (125)</p>	N	89.60	<p>TM-align: aliSize=106 (resi) RMSD=1.45 (Å)  esrakkfqrqhmdsdsp-----SS-SSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA SVE ds  -----kesaaakferqhmdsgnsPSsSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE ---</p> <p>SARST: aliSize=118 (resi) RMSD=10.94 (Å)  esra----KkFQROHMDSDSSPSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA S--veds  ---kesaaakFEROHMDSGNSPSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE----</p> <p>BLAST: aliSize=120 (resi) iden=94.40% (118/125) simi=96.00% (120/125)  -ESRAKKFQROHMDSDSSPSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA SVE ds  kESAAAKFEROHMDSGNSPSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGOGNCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE ---</p> <p>Proposed: aliSize=122 (resi) RMSD=1.11 (Å)  -ESRAKKFQROHMDSDSSPS-SsSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--kNgQg-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA SVE ds  kESAAAKFEROHMDSGNSPSsS-S TYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQg-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE ---</p>
853	<p>2k11A (127)</p> <p>1h8xA (125)</p>	N	89.60	<p>TM-align: aliSize=104 (resi) RMSD=1.73 (Å)  kesrakkfqrqhmdsdssp-----SSS--STYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--kNgQg-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA SVE ds  -----kesaaakferqhmdsgnSPSSsSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQ-G-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE ---</p> <p>SARST: aliSize=101 (resi) RMSD=2.03 (Å)  kesrakkfqrqhmdsdsspss-----SS TYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--kNgQg-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA S--sveds  -----kesaaakferqhmdsgnspssSS TYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQ-G-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE----</p> <p>BLAST: aliSize=121 (resi) iden=95.20% (119/125) simi=96.80% (121/125)  KESRAKKFQROHMDSDSSPSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--kNgQg-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA SVE ds  KESAAAKFEROHMDSGNSPSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQ-G-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE ---</p> <p>Proposed: aliSize=122 (resi) RMSD=1.58 (Å)  KESRAKKFQROHMDSDSSP-SSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC--kNgQg-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSPKERHI IVACEGSPYVPVHFDA SVE ds  KESAAAKFEROHMDSGNSpSSSTYCNOQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCknGQ-G-NCYKSNSSMHI TDCRLTNGSRYPNCAVRTSQKERHI IVACEGSPYVPVHFDA SVE ---</p>
854	<p>2aasA (124)</p> <p>1h8xA (125)</p>	N	70.16	<p>TM-align: aliSize=105 (resi) RMSD=1.88 (Å)  ketaaakferqhmdsstsa-----A SSSNYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGNPYVPVHFDA S--v  -----kesaaakferqhmdsgnsPSsSSTYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGSPYVPVHFDA SVE e</p> <p>SARST: aliSize=118 (resi) RMSD=14.39 (Å)  k-ETAAAKFEROHMDSTsaaSS---NYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGNPYVPVHFDA S--v  -kESAAAKFEROHMDSGN---SPs sssTYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGSPYVPVHFDA SVE----</p> <p>BLAST: aliSize=104 (resi) iden=73.39% (91/124) simi=83.87% (104/124)  KETAAAKFEROHMDSTsAA SSSNYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGNPYVPVHFDA S--v  KESAAAKFEROHMDSGNSPSSSTYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKNGGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGSPYVPVHFDA SVE e</p> <p>Proposed: aliSize=120 (resi) RMSD=1.32 (Å)  KETAAAKFEROHMDSTsAA--SS-sNYCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACK--NgGTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGNPYVPVHFDA S--v  KESAAAKFEROHMDSGN-SPs sSt--YCNOQMKSRNLTKDRCKPVNTFVHESLADVQAVCSJKNVACKng-GTNCYOSYSTMSITDCRETGSSKYPNCAKTTQANKHI IVACEGSPYVPVHFDA SVE e</p>

855	<p>2nuiA (124)</p> <hr/> <p>1h8xA (125)</p>	N	68.55	<p><b>TM-align:</b> aliSize=106 (resi) RMSD=1.91 (Å)  ketaaakferqhmds <b>st</b>-----AASSSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSOKNACKNGGTNCYQSYSTMSITACRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDASV-  -----kesaaakferqhmds <b>gnsPSSSS</b>TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=14.38 (Å)  k-ETAAAKFERQHMDST---SAASsnNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSOKNACKNGGTNCYQSYSTMSITACRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDAS--v  -kESAAAKFERQHMDSGNspsSSST---TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b> aliSize=103 (resi) iden=72.58% (90/124) simi=83.06% (103/124)  KETAAAKFERQHMDSTSAASSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSOKNACKNGGTNCYQSYSTMSITACRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSTTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.04 (Å)  KETAAAKFERQHMDSTsAAS-SSNYCNQMMKSRNLIKDRCKPVNTFVHESLADVQAVCSOKNAC-KNGQtNCYQSYSTMSITACRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDASV-  KESAAAKFERQHMDSGN-SPSSSTTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGG-NCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>
856	<p>1qwqA (124)</p> <hr/> <p>1h8xA (125)</p>	N	70.97	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=2.24 (Å)  kesaaakferqhmdsgns-----PSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVQAVCSOKKVTG--KDgqTNCYQSKSTMRTDCRETGSSKYPNCAYKITQVEKHIIVACGGKPSVPVHFDASV-  -----kesaaakferqhmdsgnsPSSSTTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=2.15 (Å)  kesaaakferqhmdsgns <b>psssn</b>-----TYCNLMCCRKMTQGKCKPVNTFVHESLADVQAVCSOKKVTCKDGTNCYQSKSTMRTDCRETGSSKYPNCAYKITQVEKHIIVACGGKPSVPVHFDAS--v  -----kesaaakferqhmdsgnspsssstTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b> aliSize=105 (resi) iden=76.61% (95/124) simi=84.68% (105/124)  KESAAAKFERQHMDSGNSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVQAVCSOKKVTCKDGTNCYQSKSTMRTDCRETGSSKYPNCAYKITQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSTTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=118 (resi) RMSD=1.68 (Å)  KESAAAKFERQHMDSGN---sPSSsnNYCNLMCCRKMTQGKCKPVNTFVHESLADVQAVCSOKKVTG--KDgqTNCYQSKSTMRTDCRE--gSSKYPNCAYKITQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNspss--SSS--TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGG--GNCYKNSSMHITDCLRLn-GSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>
857	<p>lizpA (124)</p> <hr/> <p>1h8xA (125)</p>	N	68.55	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=1.68 (Å)  ketaaakferqhmdsst-----AAs-SSNYCNQMMKSRNLIKDRCKPVNTLVHESLADVQAVCSOKNACKNGGTNCYQSYSTMSITDCRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDASV-  -----kesaaakferqhmdsgns <b>PS-s</b>SSTTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>SARST:</b> aliSize=119 (resi) RMSD=14.37 (Å)  k-ETAAAKFERQHMDST---SAAssNYCNQMMKSRNLIKDRCKPVNTLVHESLADVQAVCSOKNACKNGGTNCYQSYSTMSITDCRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDAS--v  -kESAAAKFERQHMDSGNspsSSS---TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b> aliSize=103 (resi) iden=72.58% (90/124) simi=83.06% (103/124)  KETAAAKFERQHMDSTSAASSNYCNQMMKSRNLIKDRCKPVNTLVHESLADVQAVCSOKNACKNGGTNCYQSYSTMSITDCRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSTTYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=0.95 (Å)  KETAAAKFERQHMDSTsAA--SSNYCNQMMKSRNLIKDRCKPVNTLVHESLADVQAVCSOKNACK-NGQtNCYQSYSTMSITDCRETGSSKYPNCAYKITQANKHIIVACEGNPYVPVHFDASV-  KESAAAKFERQHMDSGN-SPSS-S-TYCNQMMRRRNMTOGRCKPVNTFVHEPLVDVQNVCFQEKVTCKnGQ--NCYKNSSMHITDCLRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>

858	<p>2vq8A (128)</p> <hr/> <p>11bgA (124)</p>	N	22.58	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.79 (Å)  hmqpehvkerknflnqhvgpdm-----SVQRCSSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGraGSPOG-----N-MVRSNQPFVVKVNLN-NGERHPYCEYRGTRSTRYI VLKCEE--GWPVHYHEDevn-  -----kesaaakferqhmdsgnspssSSNYCNLMCC--CRKMT-----OGKCKPVNTHVHESLADVAVCS--QKKVTckngqTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGkpsVPVHFdasv-----</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.62 (Å)  hmqpehve---RYKNFLNQHV---GDMsVQRCSSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGRAGSPQ-----NMVRSNQPFVVKVNLnGE--RHPYCEYRGTRSTRYI VLKCEE--VHY----hedevn  -----kesAAAKFERQHMDsgnSPSS-SSNYCNLM-MCCRK-----MIOGKCKPVNTHVHESLADVAVCSQKKVTCKngqTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGKPSVpVHFdasv-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=27.42% (34/124) simi=43.55% (54/124)  hmqpehvkerkn-----FLNQHV---GDMsVQRCSSEI GpnNRKI I l sgt DngCKPVNTHILANKRLIKTVCGR----AGSPGGMVRSNQPFVVKVNLNNGERHPYCEYRGTRSTRYI VLKCEE--EEGWPVHY----hedevn  -----kesaaakFERQHMDsgnSPSSSSNYCNLMCC--CRKMT--OGK---CKPVNTHVHESLADVAVCSQkkvtCKNGqTnCYOSKSTMRITDRETGSSKYENCAAYKTQVEKHIIVACggKPSVpVHFdasv-----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=1.67 (Å)  hmqpehv-KERYKNFLNQHVGPDM-MSVQ---RCNSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGraGSPOG-----N-MVRSNQPFVVKVNLN-NGERHPYCEYRGTRSTRYI VLKCEE--GWPVHYHE--devn  -----kESAAAKFERQHMDsgnSPSSsSNYCNLMCC--CRKMT-----OGKCKPVNTHVHESLADVAVCS--QKKVTckngqTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGkpsVPVHFdasv-----</p>
859	<p>2vq8A (128)</p> <hr/> <p>1y92B (124)</p>	N	23.39	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.84 (Å)  hmqpehvkerknflnqhvgpdm-----SVQRCSSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGraGSPOG-----N-MVRSNQPFVVKVNLN-NGERHPYCEYRGTRSTRYI VLKCEE--GWPVHYHEDevn-  -----kesaaakferqhmdsgnssSSNYCNLMCC--CRKMT-----OGKCKPVNTHVHESLADVAVCS--QKKVTckdggTnCYOSKSTMRITDRETgSSKY-NCAAYKTQVEKHIIVACGGkpsVPVHFdasv-----</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.81 (Å)  hmqpehve---RYKNFLNQHVGPDM---VQRCSSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGRAGSP-----GNMVRSNQPFVVKVNLNNGERHPYCEYRGTRSTRYI VLKCEE--VHYhedevn  -----kesAAAKFERQHMDSGNssSSNYCNLM-MCCRK-----MIOGKCKPVNTHVHESLADVAVCSQKKVTckdggTnCYOSKSTMRITDRETGSSKYENCAAYKTQVEKHIIVACGGKPSVpvhfdasv-----</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=19.35% (24/124) simi=32.26% (40/124)  hmqpehvkerknflnqhvgpdmvqrncseigpnnrki l sgt-----DNGCKPVNTHILANKRLIKTVCGR----AGSPGGMVRSNQPFVVKVNLNNGERHPYCEYRGTRSTRYI VLKCEE--EEGWPVHY----hedevn  -----kesaaakferqhmdsgnsssnycnlmccrkmIOGKCKPVNTHVHESLADVAVCSQkkvtCKDGGTnCYOSKSTMRITDRETGSSKYENCAAYKTQVEKHIIVACggKPSVpVHFdasv-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=1.69 (Å)  hmqpehv-KERYKNFLNQHVGPDMsV-Q---RCNSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGraGSPOG-----N-MVRSNQPFVVKVNLN-NGERHPYCEYRGTRSTRYI VLKCEE--GWPVHYHED-evn  -----kESAAAKFERQHMDSGNssSSsnYCNLMCC--CRKMT-----OGKCKPVNTHVHESLADVAVCS--QKKVTckdggTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGkpsVPVHFdasv---</p>
860	<p>2vq8A (128)</p> <hr/> <p>3bcoA (124)</p>	N	22.58	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.82 (Å)  hmqpehvkerknflnqhvgpdm-----SVQRCSSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGraGSPOG-----N-MVRSNQPFVVKVNLN-NGERHPYCEYRGTRSTRYI VLKCEE--GWPVHYHEDevn-  -----kesaaakferqhmdsgnssSSNYCNQMMC--CRKMT-----OGKCKPVNTHVHESLADVAVCS--QKKVTckdggTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGkpsVPVHFdasv-----</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=9.51 (Å)  hmqpehve---RYKNFLNQHV---PDMsVQRCSSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGRAGSP-----GNMVRSNQPFVVKVNLnGE--RHPYCEYRGTRSTRYI VLKCEE--VHYhedevn  -----kesAAAKFERQHMDsgnASS-SSNYCNQM-MCCRK-----MIOGKCKPVNTHVHESLADVAVCSQKKVTckdggTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGKPSVpvhfdasv-----</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=19.35% (24/124) simi=32.26% (40/124)  hmqpehvkerknflnqhvgpdmvqrncseigpnnrki l sgt-----DNGCKPVNTHILANKRLIKTVCGR----AGSPGGMVRSNQPFVVKVNLNNGERHPYCEYRGTRSTRYI VLKCEE--EEGWPVHY----hedevn  -----kesaaakferqhmdsgnsssnycnqmccrkmIOGKCKPVNTHVHESLADVAVCSQkkvtCKDGGTnCYOSKSTMRITDRETGSSKYENCAAYKTQVEKHIIVACggKPSVpVHFdasv-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=1.78 (Å)  hmqpehv-KERYKNFLNQHVGPDM-MSVQ---RCNSEI GpnNRKI I l sgt DNGCKPVNTHILANKRLIKTVCGraGSPOG-----N-MVRSNQPFVVKVNLN-NGERHPYCEYRGTRSTRYI VLKCEE--GWPVHYHED-evn  -----kESAAAKFERQHMDsgnSASSsnYCNQMMC--CRKMT-----OGKCKPVNTHVHESLADVAVCS--QKKVTckdggTnCYOSKSTMRITDRETgSSKYP-NCAAYKTQVEKHIIVACGGkpsVPVHFdasv---</p>

861	<p>2vq8A (128)</p> <hr/> <p>1y94A (124)</p>	N	22.58	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=1.75 (Å)  hmqpehvkeryknflnqhvgpdm-----SVQRCSSEIGpNRRITLsgtDNGCKPVNTFVHESLADVKAVCS--QKVTckdggTnCYQSKSTMRTDRETgSSK-YP-NCAKTTQVEKHIIVACGGKpSVPVHFDAS---v</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.43 (Å)  hmqpehvkeryknflnqhvgpdm-----SVQRCSSEIGpNRRITLsgtDNGCKPVNTFVHESLADVKAVCS--QKVTckdggTnCYQSKSTMRTDRETgSSK-YP-NCAKTTQVEKHIIVACGGKpSVPVHFDAS---v</p> <p><b>BLAST:</b> aliSize=49 (resi) iden=25.00% (31/124) simi=39.52% (49/124)  hmqpehvkeryknflnqhvgpdm-----SVQRCSSEIGpNRRITLsgtDNGCKPVNTFVHESLADVKAVCS--QKVTckdggTnCYQSKSTMRTDRETgSSK-YP-NCAKTTQVEKHIIVACGGKpSVPVHFDAS---v</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=1.76 (Å)  hmqpehvkeryknflnqhvgpdm-----SVQRCSSEIGpNRRITLsgtDNGCKPVNTFVHESLADVKAVCS--QKVTckdggTnCYQSKSTMRTDRETgSSK-YP-NCAKTTQVEKHIIVACGGKpSVPVHFDAS---v</p>
862	<p>1kvzA (107)</p> <hr/> <p>1lbgA (124)</p>	N	24.30	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.50 (Å)  mqdwa t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.44 (Å)  mqdwa t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=21.50% (23/107) simi=31.78% (34/107)  mqdwa t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.11 (Å)  MODWA t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p>
863	<p>1kvzA (107)</p> <hr/> <p>1y92B (124)</p>	N	23.36	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.41 (Å)  mqdwa t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p> <p><b>SARST:</b> aliSize=81 (resi) RMSD=3.45 (Å)  mqdwa t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=21.50% (23/107) simi=33.64% (36/107)  mqdwa t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=2.04 (Å)  MODWA t f k k k h l t d t w -----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIFSA-----SADVLSNSEFYLAECNVKPRK---PKYKLLKSSNRICTRCEH--ELPVHAGVGicp</p>



864	<p>1kvzA (107)</p> <hr/> <p>3bcoA (124)</p>	N	24.30	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.50 (Å)  mqdwatfkkkhltdtw-----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIF-----SADVLSNSEFYLAECNVKPRKP---CKYKLLKSSNRICTRCEH--ELPVHAGVGicp  -----kesaaakferqhmdsgnsasssNYCNQMMCCRKMTqgkCKPVNTFVHESLADVKAVCSQ---kkvtckdgtNCYQSKSTMRITDCRETGSSKypnCAKTTQVEKHIIVACGGkpSVPVHEDASV---</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=11.72 (Å)  mqd---WATKKKHLTDWD--VDCDNLMPSTSLFDC-----DKNTFIYSLPGPVKALCRGVIFSA-----DVLNSEFYLAECNVK---PRKPCKYKLLKSS---SNRIRCEHELPHVF-agvgicp  ---kesaAAKERQHMDSGNSASSSNYCNQMMCCRKMTqgkCKPVNTFVHESLADVKAVCSQKQKVTCKdgtqncYOQSKSTMRITDCRETgsskYpNC-AKTTQVEKHIIVACGG--KPSVPVHFDASv-----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=21.50% (23/107) simi=33.64% (36/107)  mqdwatfkkkhltdtwdvdcdnlmptslfd-----CKDKNTFIYSLPGPVKALCRGVIFSAVLSN-----SEFYLAECNV--KPRKP--CKYKLLKSSNRICTRCE--EHELPHVF-----agvgicp  -----kesaaakferqhmdsgnsasssnycnqmmccrkmmtqgkCKPVNTFVHESLADVKAVCSQKQKVTCKGQTCyqskSTMRITDCRETgSSKYPnCAKTTQVEKHIIVACGGKPSVPVHEDASv-----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.10 (Å)  MOD-WATKKKHLTDWDV---D-CDNLMPST-SLFD--CKDKNTFIYSLPGPVKALCR-----gvifSADVLSNSEFYLAECNVKPRKP---PKYKLLKSSNRICTRCE-H-ELPVHAGVGicp  KESAAAKERQHMDSGNSASSSNYCNQMMCCRKMTqgkCKPVNTFVHESLADVKAVCSqkvtckdgt----NCYQSKSTMRITDCRETGSSKypnCAKTTQVEKHIIVACGGkpSVPVHEDASV---</p>
865	<p>1kvzA (107)</p> <hr/> <p>1y94A (124)</p>	N	24.30	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.47 (Å)  mqdwatfkkkhltdtw-----D-VDCDNLMPSTSLFD---CKDKNTFIYSLPGPVKALCRGVIF-----SADVLSNSEFYLAECNVKPRKP---CKYKLLKSSNRICTRCEH--ELPVHAGVGicp  -----kesaaakferqhmdsstsaasSsNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSQ---kkvtckdgtNCYQSKSTMRITDCRETGSSKypnCAKTTQVEKHIIVACGGkpSVPVHEDASV---</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.32 (Å)  mqd---WATKKKHLTDWD-VDCDNLMPSTSLFD--CKDKNTFIYSLPGPVKALCRGVIFSA-----DVLNSEFYLAECNVK---PRKPCKYKLLKSSNRICTRCEH--ELPVHAGV-gicp  ---kesaAAKERQHMDSSTSAASSSNYCNLMCCRKMTQgkCKPVNTFVHESLADVKAVCSQKQKVTCKdgtqncYOQSKSTMRITDCRETgsskYpNC-AKTTQVEKHIIVACGGkpSVPVHEDASv-----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=21.50% (23/107) simi=33.64% (36/107)  mqdwatfkkkhltdtwdvdcdnlmptslfd-----CKDKNTFIYSLPGPVKALCRGVIFSAVLSN-----SEFYLAECNV--KPRKP--CKYKLLKSSNRICTRCE--EHELPHVF-----agvgicp  -----kesaaakferqhmdsstsaasssnycnllmccrkmmtqgkCKPVNTFVHESLADVKAVCSQKQKVTCKGQTCyqskSTMRITDCRETgSSKYPnCAKTTQVEKHIIVACGGKPSVPVHEDASv-----</p> <p><b>Proposed:</b> aliSize=100 (resi) RMSD=2.15 (Å)  MOD-WATKKKHLTDWDV---D-CDNLMPST-SLFD--CKDKNTFIYSLPGPVKALCR-----gvifSADVLSNSEFYLAECNVKPRKP---CKYKLLKSSNRICTRCEH--ELPVHAGVGicp  KESAAAKERQHMDSSTSAASSSNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSqkvtckdgt----TNCYQSKSTMRITDCRETGSSKypnCAKTTQVEKHIIVACGGkpSVPVHEDASV---</p>
866	<p>1pu3A (105)</p> <hr/> <p>1lbgA (124)</p>	N	23.81	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.25 (Å)  mqdwltfqkhhinttr-----D-VDCDNLSTNLFH---CKDKNTFIYSRPEPVKAI CKGIIA-----SKNVLTTSEFYLSDCNVISRP---CKYKLLKSTNKFCVTCEN--QAPVHFGVgsc  -----kesaaakferqhmdsgnspssSsNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSQ---kkvtckngqTNCYQSKSTMRITDCRETGSSKypnCAKTTQVEKHIIVACGGkpSVPVHEDASV---</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.08 (Å)  mqd---WLTQKKHINTRDVD-----CDNLSTNLFHCK--DKNTFIYSRPEPVKAI CKGIIASK-----NVLTTSEFYLSDCNVIS--RPCK--YKLLKSTNKFCVTCEN--QAPVHFGV-gsc  ---kesaAAKERQHMDSGNSPSSSNYCNLMCCRKMTQgkCKPVNTFVHESLADVKAVCSQKQKVTCKngqtnCYQSKSTMRITDCRETgsskYpncayKTTQVEKHIIVACGGkpSVPVHEDASv---</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=25.71% (27/105) simi=35.24% (37/105)  mqdwltfqkhhintrdvcdnilstnlfh-----CKDKNTFIYSRPEPVKAI CKGIIASKVLT-----SEFYLSDCNVIS--SR--CKYKLLKSTNKFCVTCEN--QAPVH-----vgvgsc  -----kesaaakferqhmdsgnspsssnycnllmccrkmmtqgkCKPVNTFVHESLADVKAVCSQKQKVTCKGQTCyqskSTMRITDCRETgsskYpncayKTTQVEKHIIVACGGKPSVPVHEDASv-----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.82 (Å)  -MODWLTQKKHINT-RDV---D-CDNLST-NLFH--CKDKNTFIYSRPEPVKAI CK-----giasKNVLTTSEFYLSDCNVISRP---CKYKLLKSTNKFCVTCEN--QAPVHFGVgsc  KESAAAKERQHMDSGNSPSSSNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSqkvtckngq----NCYQSKSTMRITDCRETGSSKypnCAKTTQVEKHIIVACGGkpSVPVHEDASV---</p>

867	1pu3A (105)	N	23.81	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.29 (Å)  mqdwl t f q k k h i t n t r -----D-VDCDNILSTNLFH---CKDKNTFIYSRPEPVKAICKG-Iia-----SKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE-N-QAPVHFVGVGsc  -----kesaaakferqhmdsgnsasssNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSQkK--vtckdggTNCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=4.48 (Å)  mqdwl t f q k k h i t n t r d v d -----CDNILSTNLFHCKDKNTFIYSRPEPVKAICK-----KGI IASKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE-N-QAPVHFVGV-gsc  -----kesaaakferqhmdsgnsasssnycnlmmccrkmTQgkCKPVNTFVHESLADVKAVCSqkvtCKDGTNCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=24.76% (26/105) simi=35.24% (37/105)  mqdwl t f q k k h i t n t r d v d c d n i l s t n l f h -----CKDKNTFIYSRPEPVKAICK-KGI IASKNVLTT-----SEFYLSDCNVT--SR--P--CKYKLLKSTNKFCVTE-ENQ--APVHF-----v g v g s c  -----kesaaakferqhmdsgnsasssnycnlmmccrkmTqgkCKPVNTFVHESLADVKAVCSQKVTCKDGTncyqskTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV-----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=1.77 (Å)  -MQDWLTQKKHIT-NTRD---VD---CDNILSTNLFH---CKDKNTFIYSRPEPVKAICK-----giasKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE-N-QAPVHFVGVGsc  kESAAAKFEROHMDSGNSASSsNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSqkvtckdgt-----NCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p>
	1y92B (124)			
868	1pu3A (105)	N	23.81	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.21 (Å)  mqdwl t f q k k h i t n t r -----D-VDCDNILSTNLFH---CKDKNTFIYSRPEPVKAICKGii-----SKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE--NQAPVHFVGVGsc  -----kesaaakferqhmdsgnsasssNYCNQMMCCRKMTqgkCKPVNTFVHESLADVKAVCSQ---kkvtckdggTNCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=9.93 (Å)  mqd---WLTQKKHITNT---RDVD---CDNILSTNLFHC-----CKDKNTFIYSRPEPVKAICKGIIAS-----KNVLTTSEFYLSDCNVTIS--RPC--KYKLLKSTNKFCVTE-N-QAPVHFVGV-gsc  ---kesAAKFEROHMDSGNSASSsNYCNQMMCCRKMTqgkCKPVNTFVHESLADVKAVCSQKVTCKdgtTNCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=24.76% (26/105) simi=35.24% (37/105)  mqdwl t f q k k h i t n t r d v d c d n i l s t n l f h -----CKDKNTFIYSRPEPVKAICK-KGI IASKNVLTT-----SEFYLSDCNVT--SR--P--CKYKLLKSTNKFCVTE-ENQ--APVHF-----v g v g s c  -----kesaaakferqhmdsgnsasssnycnqmmccrkmTqgkCKPVNTFVHESLADVKAVCSQKVTCKDGTncyqskTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.68 (Å)  -MQDWLTQKKHITNTRD---D---CDNILST-nLFH---CKDKNTFIYSRPEPVKAICK-----giasKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE--NQAPVHFVGVGsc  kESAAAKFEROHMDSGNSASSsnyCNQMMCCR-KMTqgkCKPVNTFVHESLADVKAVCSqkvtckdgt-----NCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p>
	3bcoA (124)			
869	1pu3A (105)	N	23.81	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.18 (Å)  mqdwl t f q k k h i t n t r -----D-VDCDNILSTNLFH---CKDKNTFIYSRPEPVKAICKGii-----SKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE-N-QAPVHFVGVGsc  -----kesaaakferqhmdsstsaasSsNYCNLMCCRKMTqgkCKPVNTFVHESLADVKAVCSQ---kkvtckdggTNCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.34 (Å)  mqd---WLTQKKHITNTRD---D---CDNILSTNLFHC---CKDKNTFIYSRPEPVKAICK-----KGI IASKNVLTTSEFYLSDCNVTIS--RPC--KYKLLKSTNKFCVTE-N-QAPVHFVGV-gsc  ---kesAAKFEROHMDSSTSAAsSNYCNLMCCRKMTQgkCKPVNTFVHESLADVKAVCSqkvtCKDGTNCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=24.76% (26/105) simi=35.24% (37/105)  mqdwl t f q k k h i t n t r d v d c d n i l s t n l f h -----CKDKNTFIYSRPEPVKAICK-KGI IASKNVLTT-----SEFYLSDCNVT--SR--P--CKYKLLKSTNKFCVTE-ENQ--APVHF-----v g v g s c  -----kesaaakferqhmdsstsaassnycnlmmccrkmTqgkCKPVNTFVHESLADVKAVCSQKVTCKDGTncyqskTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.63 (Å)  -MQDWLTQKKHITNT-RDV---D---CDNILST-nLFH---CKDKNTFIYSRPEPVKAICK-----giasKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFCVTE-N-QAPVHFVGVGsc  kESAAAKFEROHMDSSTSAAsSNYCNLMCCR-KMTqgkCKPVNTFVHESLADVKAVCSqkvtckdgt-----NCYQSKTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkPSPVPHEDASV--</p>
	1y94A (124)			

870	<p>1un4A (119)</p> <hr/> <p>1lbgA (124)</p>	N	32.77	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.87 (Å)  nsrythfl tqhyd <b>akpq</b>-----GRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---EN-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACE-N-GLPVHLQsIFr  -----kesaaakferqhmd <b>sgnspSSSS</b>SNYCNLMCCCKMTQgKCKPVNTEVHESLADVKAVCS---QKKVTckngQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGgKpSVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=10.05 (Å)  ns---RYTHLTQHYD<b>AKPOGRD</b>drYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPH-----RENLRISKSSFOVIAAKLHGSPWP-PCQYRAIAGFRNVVACEN--GLPVHL----dqsifr  --kesAAAKFERQHMD<b>sgnspSSSS</b>SN---YCNLMCCCKMTQgKCKPVNTEVHESLADVKAVC---SOKKVtckngQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=35.29% (42/119) simi=54.62% (65/119)  nsryth-----LTQHYDA<b>-KPOGRD</b>drYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIEN-----KNGnphRENLRISKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVAC--ENGLPVHLQSIfr  -----kesaaakFERQHMD<b>SgnSPSSSS</b>SN-YCNLMCCCKMTQgKCKPVNTEVHESLADVKAVCSQkvtckng---QTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACggKPSVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.37 (Å)  n--SRYTHLTQHYDA<b>K-POGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---EN-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACE-N-GLPVHLQsI-fr  -keSAAAKFERQHMD<b>SGnsPSS-SSNYCNLMCCCKMTQgKCKPVNTEVHESLADVKAVCS</b>---QKKVTckngQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGgKpSVPVHFDA-Sv--</p>
871	<p>1un4A (119)</p> <hr/> <p>1y92B (124)</p>	N	30.25	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.94 (Å)  nsrythfl tqhyd <b>akpq</b>-----GRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---E-N-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACEN--GLPVHLQsIFr  -----kesaaakferqhmd <b>sgnsaSSSS</b>SNYCNLMCCCKMTQgKCKPVNTEVHESLADVKAVCS---QKKVTckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=10.00 (Å)  ns---RYTHLTQHYD<b>AKPOGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---EN-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACENG--LPVHL----dqsifr  --kesAAAKFERQHMD<b>sgnsaSSSS</b>SNYCNLMCCCKMTQgKCKPVNTEVHESLADVKAVC---SOKKVtckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGGKpsVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=32.77% (39/119) simi=51.26% (61/119)  nsryth-----LTQHYDA<b>KPOGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHRENLRISKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVAC--ENGLPVHLQSIfr  -----kesaaakFERQHMD<b>SgnSaSSSS</b>SNYCNLMCCCKMTQgKCKPVNTEVHESLADVKAVCSQkvtckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACggKPSVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.35 (Å)  n--SRYTHLTQHYDA<b>KPOGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---E-N-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACEN--GLPVHLQsI-fr  -keSAAAKFERQHMD<b>SGnsaSSSS</b>SNYCNLMCCCKMTQgKCKPVNTEVHESLADVKAVCS---QKKVTckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-Sv--</p>
872	<p>1un4A (119)</p> <hr/> <p>3bcoA (124)</p>	N	31.93	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.95 (Å)  nsrythfl tqhyd <b>akpq</b>-----GRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---EN-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACE-N-GLPVHLQsIFr  -----kesaaakferqhmd <b>sgnsaSSSS</b>SNYCNMQMCCCKMTQgKCKPVNTEVHESLADVKAVCS---QKKVTckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGgKpSVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=10.25 (Å)  ns---RYTHLTQHYD<b>AKPOGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPH-----RENLRISKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACENGLPVHL----dqsifr  --kesAAAKFERQHMD<b>SGNSASSSS</b>SNYCNMQMCCCKMTQgKCKPVNTEVHESLADVKAVC---SOKKVtckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACG-GKPSVPVhfdasv-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=32.77% (39/119) simi=51.26% (61/119)  nsryth-----LTQHYDA<b>KPOGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHRENLRISKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVAC--ENGLPVHLQSIfr  -----kesaaakFERQHMD<b>SgnSaSSSS</b>SNYCNMQMCCCKMTQgKCKPVNTEVHESLADVKAVCSQkvtckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACggKPSVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.50 (Å)  n--SRYTHLTQHYDA<b>KPOGRD</b>DRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAIENknGNPHR---EN-LRI SKSSFOVIAAKLHGSPWPPOQYRAIAGFRNVVACE-N-GLPVHLQsI-fr  -keSAAAKFERQHMD<b>SGNSASSs</b>SNYCNMQMCCCKMTQgKCKPVNTEVHESLADVKAVCS---QKKVTckdgQTnCYQSKSTMRIIDRETGSSKYPNCAKTTQVEKHIIVACGgKpSVPVHFDA-Sv--</p>

873	<p>1un4A (119)</p> <p>1y94A (124)</p>	N	31.09	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.91 (Å)  nsrythfl tqhyd akpq-----GRDDRYCESIMRRRGLTSPCKDINTFIHGKRSIKAIENknGNPHR---E-N-LRI SKSSFOVIAKCLHGSPWPPQYRAIAGFRNVVACE-N-GLPVHLDQsIFr  -----kesaaakferqhmdsstsaASSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCS---QKKVTckdGqTnCYQSKSTMRIIDCRETgSSK-YPNIAKKTQVEKHIIVACGGkpSVPVHFDASV-</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=10.02 (Å)  ns---RYTHLTOHYT--AKPOGRDDRYCESIMRRRGLTSPCKDINTFIHGKRSIKAIENknGNPHR---RENLRISKSSFOVIAKCLHGSPWPPQYRAIAGFRNVVACE--GLPVHLDQsIFr  --kesAAAKFERQHMDsstsaASSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCS---SOKKVTckdGqTnCYQSKSTMRIIDCRETgSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=32.77% (39/119) simi=51.26% (61/119)  nsryth-----LTOHYTAKPOGRDDRYCESIMRRRGLTSPCKDINTFIHGKRSIKAIENknGNPHRENLRISKSSFOVIAKCLHGSPWPPQYRAIAGFRNVVACE--ENGLPVHLDQsIFr  -----kesaaakFERQHMDsstsaASSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKkVTCKDGQTnCYQSKSTMRIIDCRETgSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV--</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.47 (Å)  n--SRYTHLTOHYTAK--POGRDDRYCESIMRRRGLTSPCKDINTFIHGKRSIKAIENknGNPHR---E-N-LRI SKSSFOVIAKCLHGSPWPPQYRAIAGFRNVVACE--GLPVHLDQsI--fr  -keSAAAKFERQHMDsstsaASSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCS---QKKVTckdGqTnCYQSKSTMRIIDCRETgSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV--</p>
874	<p>1rmfA (120)</p> <p>1lbgA (124)</p>	N	43.33	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=1.52 (Å)  mqdgmqrflrqhvhppeg-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--  -----kesaaakferqhmdsgnspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=9.29 (Å)  mqdg---MYQRFLROHVHPPEG-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--g  ---kesAAAKFERQHMDSGNspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV--</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=43.33% (52/120) simi=63.33% (76/120)  mqdgmqr-----RFLROHVHPPEG-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--g  -----kesaaakFERQHMDSGNspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV--</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.41 (Å)  mqd--GMYQRFLROHVHPPEG-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--  ---keSAAAKFERQHMDSGNspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV</p>
875	<p>1rmfA (120)</p> <p>1y92B (124)</p>	N	42.50	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=1.34 (Å)  mqdgmqrflrqhvhppeg-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--  -----kesaaakferqhmdsgnsasSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV</p> <p><b>SARST:</b> aliSize=114 (resi) RMSD=9.35 (Å)  mqdg---MYQRFLROHVHPPEG-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--g  ---kesAAAKFERQHMDSGNspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV--</p> <p><b>BLAST:</b> aliSize=75 (resi) iden=42.50% (51/120) simi=62.50% (75/120)  mqdgmqr-----RFLROHVHPPEG-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--GVVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--g  -----kesaaakFERQHMDSGNspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV--</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=1.20 (Å)  mqd--GMYQRFLROHVHPPEG-----GSDRYCNLMQRRKMTLYHCKRFNTFIHEDIWNIRSI CSTTNIQCKNGKMNCHEG--VVKVTDICRDTGSSRAPNCRIRAIASRRVVIACEINFPQVPVHFDG--  ---keSAAAKFERQHMDSGNspSSSNYCNLMCCCKMTQgKCKPVNTFVHESLADVKAVCSQKKVTCKDGQTnCYQskSTMRIIDCRETGSSKYPNIAKKTQVEKHIIVACGGkpSVPVHFDASV</p>

876	<p><b>1mfA</b> (120)</p> <hr/> <p><b>3bcoA</b> (124)</p>	N 41.67	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=1.55 (Å)  mqdgmqrflrqhvhp<del>ee</del>tg-----GSDRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHEG</del>--VVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFDG--  -----kesaaakferqhmdsgnsasSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=8.94 (Å)  mqdg---MYQRFLRQHVHpeE--TGGSDR-FCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHE</del>--GVVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFD---g  ---kesAAAKFEROHMD--SgnSASSSSnYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv-</p> <p><b>BLAST:</b> aliSize=74 (resi) iden=41.67% (50/120) simi=61.67% (74/120)  mqdgmqr-----RFLRQHVHP-EETGGSDRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHE</del>--GVVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFD---g  -----kesaaakFEROHMDsgNSASSSSnYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv-</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.40 (Å)  mqd--GMYQRFLRQHVHPEETGGS-DRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHEG</del>--VVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFDG--  ---keSAAAKFEROHMDSGNSASSsNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv</p>
877	<p><b>1mfA</b> (120)</p> <hr/> <p><b>1y94A</b> (124)</p>	N 42.50	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=1.59 (Å)  mqdgmqrflrqhvhp<del>ee</del>tg-----GSDRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHEG</del>--VVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFDG--  -----kesaaakferqhmdsst<del>aa</del>SSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=8.88 (Å)  mqdg---MYQRFLRQHVH---PEETGgsdRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHE</del>--GVVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFD---g  ---kesAAAKFEROHMDSst<del>aa</del>SSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv-</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=42.50% (51/120) simi=63.33% (76/120)  mqdgmqr-----RFLRQHVHPPEETGGSDRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHE</del>--GVVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFD---g  -----kesaaakFEROHMDSST<del>aa</del>SSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv-</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.41 (Å)  mqd--GMYQRFLRQHVHPPEETGGS-DRYCNLMQRKMTLYHCKRFNTFIHEDIWNIRSI<del>CS</del>TTNIQCKNGKMN<del>CHEG</del>--VVKVTD<del>CD</del>RTGSSRAPNCR<del>RY</del>RAIASTRRVVIACE<del>EN</del>FQVPVHFDG--  ---keSAAAKFEROHMDSST<del>aa</del>SSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDQOTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv</p>
878	<p><b>2j4tA</b> (119)</p> <hr/> <p><b>1lbgA</b> (124)</p>	N 34.45	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.62 (Å)  neryekflrqhyd<del>ak</del>pq-----GRDDRYCESMMKERKLT<del>S</del>-PCKD<del>V</del>NTFIHGTTKNIRAIGkK<del>G</del>SPYG-----ENFRISNSPFQITITHSRGSPWPPCGYRAFKDFRYIV<del>I</del>ACED--GW<del>P</del>VHFD<del>E</del>sFI<del>S</del>p  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckngqTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv--</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.51 (Å)  ne---RYEKFLRQHYD<del>AK</del>PQGRDDR-FCESMMKERKLT<del>S</del>-PCKD<del>V</del>NTFIHGTTKNIRAIGkK<del>G</del>SPY-----GENFRISNSPFQITITHSRGSPWPPCGYRAFKDFRYIV<del>I</del>ACED--GW<del>P</del>VHFD---desfisp  ---kesAAAKFEROHMDsgNSPSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--SOKKVtckngqTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv-----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=36.97% (44/119) simi=54.62% (65/119)  nerye-----KFLRQHYD<del>AK</del>-KQGRDDRFCESMMKERKLT<del>S</del>-PCKD<del>V</del>NTFIHGTTKNIRAIGkK<del>G</del>SPY-----ENFRISNSPFQITITHSRGSPWPPCGYRAFKDFRYIV<del>I</del>ACED--EDGW<del>P</del>VHFD<del>E</del>sFI<del>S</del>p  -----kesaaakFEROHMDsgNSPSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--SOKKVtckngqTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv-----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.29 (Å)  n--ERYEKFLRQHYD<del>AK</del>--PQGRDDRFCESMMKERKLT<del>S</del>-PCKD<del>V</del>NTFIHGTTKNIRAIGkK<del>G</del>SPYG-----ENFRISNSPFQITITHSRGSPWPPCGYRAFKDFRYIV<del>I</del>ACED--GW<del>P</del>VHFD<del>E</del>sFI<del>S</del>p  -keSAAAKFEROHMDsgNSPSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckngqTNCYQSkSTMRI<del>TD</del>CRETGSSKY<del>PN</del>CAYKTTQVEKHIIVACGGKPSVPVHFDAsv--</p>

879	<p>2j4tA (119)</p> <hr/> <p>1y92B (124)</p>	N	33.61	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.67 (Å)  neryekflrqhydakp-----GRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPYG-----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHFDEsFIsp  -----kesaaakferqhmdsgnSaSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFDA-SV--</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.41 (Å)  ne---RYEFLROHYDAKPOGRDDR-FCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPY-----GENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHF-----desfisp  --kesAAAKFEROHMDSGNsASSSSnYCNLMCCRKMTQgKCKPNTFVHESLADVKAVG--SOKKVtckdgQTCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=36.13% (43/119) simi=52.94% (63/119)  nerye-----KFLROHYDA-KPOGRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPY--FE-NFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIAC--EDGWPVHFDES-fisp  -----kesaaakFEROHMDSgnSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKVKTCkdqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACggKPSVPVHFDAsv-----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.40 (Å)  n--ERYEFLROHYDAKPO-GRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPYG-----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHFDEsFIsp  -keSAAAKFEROHMDSGNsASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFDA-SV--</p>
880	<p>2j4tA (119)</p> <hr/> <p>3bcoA (124)</p>	N	33.61	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.69 (Å)  neryekflrqhydakp-----GRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPYG-----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED-DGWPVHFDEsFIsp  -----kesaaakferqhmdsgnsaSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGgKpSVPVHFDA-SV--</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=9.91 (Å)  ne---RYEFLROHYDAKPOGRDDR-FCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPY--YGENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACEDGWPVHF-----desfisp  --kesAAAKFEROHMDSGNSASSSSnYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKVKTCkdqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACG--KPSVPVhfdasv-----</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=36.13% (43/119) simi=52.94% (63/119)  nerye-----KFLROHYDA-KPOGRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPY--FE-NFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIAC--EDGWPVHFDES-fisp  -----kesaaakFEROHMDSgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKVKTCkdqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACggKPSVPVHFDAsv-----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.43 (Å)  n--ERYEFLROHYDAKPOGR-DDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPYG-----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHFDEsFIsp  -keSAAAKFEROHMDSGNSASsSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFDA-SV--</p>
881	<p>2j4tA (119)</p> <hr/> <p>1y94A (124)</p>	N	33.61	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.74 (Å)  neryekflrqhydakp-----GRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPYG-----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHFDEsFIsp  -----kesaaakferqhmdsstSaASSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFDA-SV--</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.40 (Å)  ne---RYEFLROHYDAKPOGRDDR-FCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPY-----GENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHF-----desfisp  --kesAAAKFEROHMDSSTSAASSnYCNLMCCRKMTQgKCKPNTFVHESLADVKAVG--SOKKVtckdgQTCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=36.13% (43/119) simi=52.94% (63/119)  nerye-----KFLROHYDAKPOGRDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPY--FE-NFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIAC--EDGWPVHFDES-fisp  -----kesaaakFEROHMDSSTSAASSnYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKVKTCkdqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACggKPSVPVHFDAsv-----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.34 (Å)  n--ERYEFLROHYDAK--POGrDDRYCESMMKERKLLTS-PCKDVNTFIHGTTKNIRAICGkkGSPYG-----ENFRISNSPFQITITHSRGSPPWPCGYRAFKDFRYTVIACED--GWPVHFDEsFIsp  -keSAAAKFEROHMDSSTsAAS-SSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTNCYOSKSTMRIIDCRETGSSKYENCAKTTQVEKHIIVACGGkpSVPVHFDA-SV--</p>

882	1bleA (123)	N	30.89	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.87 (Å)  qdnsrythfl tqhyd akpq-----GRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EnknGNPHR----EN-LRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACE-N-GLPVHLDQsIFrrp  -----kesaaakferqhmdsgnspSSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCS---QKKVTckngQTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGgKpSVPVHFDA-SV---</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.99 (Å)  qdns---RYTHLTOHYDAKPOGRDDR- YCESI RRRGLT-SPQDINTFIHG NKRSI KAI C enknGNPH----RENLRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACENGLPVHL----dqsifrrp  ---kesAAAKFEROHMDSGNSPSSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCS---SOKKVTckngQTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGGKPSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=33.33% (41/123) simi=52.85% (65/123)  qdnsryth-----FLTOHYDA-KPOGRDDR YCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EN-----KngnphRENLRISKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVAC--ENGLPVHLDQsIFrrp  -----kesaaakFEROHM SgnSPSSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCSQkvtckng---QTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACggKPSVPVHFDA-SV----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.34 (Å)  qdn---RYTHLTOHYDAK-POGRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EnknGNPHR----EN-LRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACE-N-GLPVHLDQsI-frrp  ---keSAAAKFEROHM SGNsPSS-SNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCS---QKKVTckngqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGgKpSVPVHFDA-Sv----</p>
	1lbgA (124)			
883	1bleA (123)	N	28.46	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.95 (Å)  qdnsrythfl tqhydakpq-----GRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EnknGNPHR---E-N-LRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACEN--GLPVHLDQsIFrrp  -----kesaaakferqhmdsgnsaSSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCS---QKKVTckdGqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGGKpSVPVHFDA-SV---</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.31 (Å)  qdns---RYTHLTOHYDAKPOGRDDRYCESI RRRGLT-SPQDINTFIHG NKRSI KAI C enknGNPH----RENLRISKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACEN--GLPVHL----dqsifrrp  ---kesAAAKFEROHM SGNsASSSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCS---SOKKVTckdGqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGGKpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=30.89% (38/123) simi=49.59% (61/123)  qdnsryth-----FLTOHYDA-KPOGRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EN---NGNPHRENLRISKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVAC--ENGLPVHLDQsIFrrp  -----kesaaakFEROHM SgnSASSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCSQkvTCKDGQTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACggKPSVPVHFDA-SV----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.46 (Å)  Q-dnSRYTHLTOHYDAKPOGRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EnknGNPHR---E-N-LRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACEN--GLPVHLDQsI-frrp  Ke--SAAAKFEROHM SGNsASSSSNYNLMCCRKMlQgKlKPVNTFVHESLADVAVCS---QKKVTckdGqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGGKpSVPVHFDA-Sv----</p>
	1y92B (124)			
884	1bleA (123)	N	28.46	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.95 (Å)  qdnsrythfl tqhydakpq-----GRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EnknGNPHR----EN-LRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACE-N-GLPVHLDQsIFrrp  -----kesaaakferqhmdsgnsaSSSNYNQNMCCRKMlQgKlKPVNTFVHESLADVAVCS---QKKVTckdGqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGgKpSVPVHFDA-SV---</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.41 (Å)  qdns---RYTHLTOHYDAKPOGRDDR- YCESI RRRGLT-SPQDINTFIHG NKRSI KAI C enknGNPH----RENLRISKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACEN--GLPVHL----dqsifrrp  ---kesAAAKFEROHMDSGNSASSSNYNQNMCCRKMlQgKlKPVNTFVHESLADVAVCS---SOKKVTckdGqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGGKpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=30.89% (38/123) simi=49.59% (61/123)  qdnsryth-----FLTOHYDA-KPOGRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EN---NGNPHRENLRISKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVAC--ENGLPVHLDQsIFrrp  -----kesaaakFEROHM SgnSASSSNYNQNMCCRKMlQgKlKPVNTFVHESLADVAVCSQkvTCKDGQTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACggKPSVPVHFDA-SV----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.39 (Å)  Q-dnSRYTHLTOHYDAK-POGRDDRYCESI RRRGLTS-PCODINTFIHG NKRSI KAI C EnknGNPHR----EN-LRI SKSSFQVIT KLHGGSPWP PQYRAIAGFRNVVACE-N-GLPVHLDQsI-frrp  Ke--SAAAKFEROHM SGNsASS-SNYNQNMCCRKMlQgKlKPVNTFVHESLADVAVCS---QKKVTckdGqTnCYOSKSTMRIIDRETSSKYPNAYKTIQVEKHIIVACGgKpSVPVHFDA-Sv----</p>
	3bcoA (124)			

885	<p>1bleA (123)</p> <hr/> <p>1y94A (124)</p>	N 28.46	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.89 (Å)  qdnsrythfl tqhyd akpq-----GRDDRYCESI RRRGLTS-PCODINTFIHG NKRSIKAI CenknGNPHR----EN-LRI SKSSFQVITIKLH-GGSppWPPQYRATAGFRNVVACE-N-GLPVHLQsIFrrp  -----kesaaakferqhmdsstsaASSSNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCS---QKkVtckdgQTnCYOSKSTMRIIDRETgSSK-YINCAAYKTTQVEKHIIVACGgkpsVPVHFA-SV----</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=9.23 (Å)  qdns---RYTHFLTQHYD--AKPOGRdRYCESI RRRGLTS-SPQDINTFIHG NKRSIKAI CenknGNPH----REN-LRI SKSSFQVITIKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHL----dqsifrrp  ---kesAAAKFERQHMDsstsaASS-SNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVC---SOKKvtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGkpsVPVHFDASV-----</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=30.89% (38/123) simi=49.59% (61/123)  qdnsryth-----FLTQHYDAKPOGRD-RYCESI RRRGLTS-PCODINTFIHG NKRSIKAI CenknGNPHREN-LRI SKSSFQVITIKLHGGSPWPPQYRATAGFRNVVAC--ENGLPVHLQsIFrrp  -----kesaaakFERQHMDsstsaASSsNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQkvTCKDGTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACggkpsVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.37 (Å)  Q-dnRYTHFLTQHYDAK-POG-rdDRYCESI RRRGLTS-PCODINTFIHG NKRSIKAI CenknGNPHR----EN-LRI SKSSFQVITIKLH-GGSppWPPQYRATAGFRNVVACE-N-GLPVHLQsI-frrp  ke--SAAAKFERQHMDsstsaASS--SNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCS---QKkVtckdgQTnCYOSKSTMRIIDRETgSSK-YINCAAYKTTQVEKHIIVACGgkpsVPVHFA-Sv----</p>
886	<p>2hkyA (129)</p> <hr/> <p>11bgA (124)</p>	N 35.48	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.07 (Å)  mkpkgmtssqwfk iqhm gpsp-----QACNSAMK--NINKhtKRCKDLNTEFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRYEKRQNSYVACKPPqkkdsqqfHLVPVHLDRVL  -----kesaaakferqhmdsgnspsssNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=10.27 (Å)  mkpkg-MTSSQWFKIQHMQP--PSPQACNSAMKNI NKHT-----RCKDLNTEFLHEPFSSVAATCQTPKIAgKNGDKNCHOSHGPVSLIMCKLI-TSGKYPNCRYEKRQNSYVACKPP-----qkkdsqqfhlvpvhl drvl  ----kESAAAKFERQHMDsgNSPSSSNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGKpsvpvhfdasv-----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=41.94% (52/124) simi=53.23% (66/124)  mkpkgmtssqw-----FKIQHMQP--SPOACNSAMKNI NKHT-RCKDLNTEFLHEPFSSVAATCQTPKIAgKNGDKNCHOSHGPVSLIMCKLI-SGKYPNCRYEKRQNSYVACkppQKkdsqqfhlVPVHL---rvl  -----kesaaakFERQHMDsgnSPSSsnyCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVAC---GGKPS-----VPVHFDASV---</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.91 (Å)  mkpkgMTSSQWFKIQHMQPS--pQ-----ACNSAMK--NINKhtKRCKDLNTEFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRYEKRQNSYVACKPPqkkdsqqfHLVPVHLDRVL  ---kESAAAKFERQHMDSGns-PssssNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p>
887	<p>2hkyA (129)</p> <hr/> <p>1y92B (124)</p>	N 35.48	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.89 (Å)  mkpkgmtssqwfk iqhm gpsp-----QACNSAMK--NINKhtKRCKDLNTEFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRYEKRQNSYVACKPPqkkdsqqfHLVPVHLDRVL  -----kesaaakferqhmdsgnsassssNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=10.34 (Å)  mkpkg-MTSSQWFKIQHMQP--SPOACNSAMKNI NKHT-RCKDL-----NTEFLHEPFSSVAATCQTPKIAgKNGDKNCHOSHGPVSLIMCKLI-TSGKYPNCRYEKRQNSYVACKPP-----qkkdsqqfhlvpvhl drvl  ----kESAAAKFERQHMDsgnSASSSNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGKpsvpvhfdasv-----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=39.52% (49/124) simi=52.42% (65/124)  mkpkgmtssqw-----FKIQHMQPSPOACNSA-----KNI NKHT-RCKDLNTEFLHEPFSSVAATCQTPKIAgKNGDKNCHOSHGPVSLIMCKLI-SGKYPNCRYEKRQNSYVACkppQKkdsqqfhlVPVHL---rvl  -----kesaaakFERQHMDSGNSASSSNyCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVAC---GGKPS-----VPVHFDASV---</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.68 (Å)  mkpkgMTSSQWFKIQHMQSPQ-----ACNSAMK--NINKhtKRCKDLNTEFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRYEKRQNSYVACKPPqkkdsqqfHLVPVHLDRVL  ---kESAAAKFERQHMDSG-NsassssNYCNLMCCRKMtQgKkKPVNTFVHESLADVKAVCSQKkVtckdgQTnCYOSKSTMRIIDRETgSSKYINCAAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p>



888	<p>2hkyA (129)</p> <hr/> <p>3bcoA (124)</p>	N	35.48	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.01 (Å)  mkpkgmtssqwfkqhmqpsp-----QACNSAMK--NINKhtKRCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRVKEKRONKSYVVACKPPqkkdsqqfHLVPVHLDRL  -----kesaaakferqhmdsgnsasssNYCNLMCCrKMTQ--GKCKPVNTFVHESLADKAVCSQKVTCKDG-QTNCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=10.12 (Å)  mkpkgm--TSSQWFKIQHMOPSPQ--ACNSAMKNI NKHT-----RCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI--TSGKY-PNCRVKEKRONKSYVVACKPP-----qkkdsqqfhlvpvhldrv1  -----keSAAAKFERQHMDSGNSASSSSNYCNMQMCCRmtgqKCKPVNTFVHESLADKAVCSQKVTCKDGQTCYQSKSTMRITDCRETgSSKY-PNCAYKTTQVEKHIIVACGGKpsvpvhfdasv-----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=39.52% (49/124) simi=52.42% (65/124)  mkpkgmtssqw-----FKIQHMOPSPQACNSA-----MKNINHTK-RCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRVKEKRONKSYVVACKPPQKkdsqqfhlVPVHLD---rv1  -----kesaaakFERQHMDSGNSASSSSNYcndMCCRMTQgKCKPVNTFVHESLADKAVCSQKVTCKDGQTCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVAC---GGKPS-----VPVHFDASV---</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.86 (Å)  mkpkmTSSQWFKIQHMOPS-----pQACNSAMK--NINKhtKRCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRVKEKRONKSYVVACKPPqkkdsqqfHLVPVHLDRL  ---K-ESAAAKFERQHMDSGNSASSSSNYCNLMCCrKMTQ--GKCKPVNTFVHESLADKAVCSQKVTCKDG-QTNCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p>
889	<p>2hkyA (129)</p> <hr/> <p>1y94A (124)</p>	N	36.29	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.97 (Å)  mkpkgmtssqwfkqhmqpsp-----QACNSAMK--NINKhtKRCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRVKEKRONKSYVVACKPPqkkdsqqfHLVPVHLDRL  -----kesaaakferqhmdsstsaasssNYCNLMCCrKMTQ--GKCKPVNTFVHESLADKAVCSQKVTCKDG-QTNCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p> <p><b>SARST:</b> aliSize=94 (resi) RMSD=2.96 (Å)  mkpkgmtssqwfkqhmqpspqa-----CN SAMKNI NKHTKRCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI tsgKY----PNCRVKEKRONKSYVVACKPPqkkdsqqfHLVPVHLDRLV-1  -----kesaaakferqhmdsstsaasssnyCNLMCCRMTQgKCKPVNTFVHESLADKAVCSQKVTCKDGQTCYQSKSTMRITDCRET---TGssky-PNCAYKTTQVEKHIIVACG-----GKPSVPVHFDASV-</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=40.32% (50/124) simi=53.23% (66/124)  mkpkgmtssqw-----FKIQHMOPSPQACNSA-----MKNINHTK-RCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRVKEKRONKSYVVACKPPQKkdsqqfhlVPVHLD---rv1  -----kesaaakFERQHMDSSTSAASSSNYcndMCCRMTQgKCKPVNTFVHESLADKAVCSQKVTCKDGQTCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVAC---GGKPS-----VPVHFDASV---</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.82 (Å)  mkpkmTSSQWFKIQHMOPS--pQ-----ACNSAMK--NINKhtKRCKDLNtFLHEPFSSVAATCQTPKIAg-KNgDKNCHOSHGPVSLIMCKLI-SGKYPNCRVKEKRONKSYVVACKPPqkkdsqqfHLVPVHLDRL  ---K-ESAAAKFERQHMDSSTs-AasssnYCNLMCCrKMTQ--GKCKPVNTFVHESLADKAVCSQKVTCKDG-QTNCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVACGGK-----PSVPVHFDASV</p>
890	<p>1m58A (106)</p> <hr/> <p>1lbgA (124)</p>	N	23.58	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.47 (Å)  mqnwetfqqkhltdtr-----D-VKCDAEKkALFD---CKQKNTFIYARPGRQALCKNIIV-----SKNVLSTDEFYLSDCNRI-KL---PCHYKLLKSSNTICITCE-N-KLPVHFDVVEecp  -----kesaaakferqhmdsgnspssSNYCNLMCCRMTQgkKCKPVNTFVHESLADKAVG-SQ--kkvtckngqTNCYQSKSTMRITDCRETgSSkypNCAYKTTQVEKHIIVACGgKpSVPVHFDASV---</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=10.52 (Å)  mqn---WETQKKHLTDTRDV---KCDAEKkALFD---CKQKNTFIYARPGRQALCKNIIVSK-----NVLSTDEFYLSDCNR---IKLCHYK---LKSSNTICITCENKLPVHFDVVEecp  ---kesaAAKFERQHMDSGNSPSSSNYCNLMCCRMTQgkKCKPVNTFVHESLADKAVCSQKVTCKngqTNCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV---</p> <p><b>BLAST:</b> aliSize=37 (resi) iden=24.53% (26/106) simi=34.91% (37/106)  mqnwetfqqkhltdtrDvkcdaeMkAlfd-----CKQKNTFIYARPGRQALCKNIIVSKN-----VLSDEFYLSDCNRI---KLP---CHYKLLKSSNTICITCENK---LPVHFDV---veecp  -----kesaaakferqhmdsgnspsssnYCNLMCCRMTQgkKCKPVNTFVHESLADKAVCSQKVTCKngqTNCYQSKSTMRITDCRETgSSKYPNCAYKTTQVEKHIIVACGGKpsVPVHFDASV-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.97 (Å)  m--QNWETQKKHLTDTRDV---KCDAEKkALFD---CKQKNTFIYARPGRQALCKNI-----iivsKNVLSTDEFYLSDCNRI-KLP---CHYKLLKSSNTICITCE-N-KLPVHFDVVEecp  -keSAAAKFERQHMDSGNSPSSSNYCNLMCCRMTQgkKCKPVNTFVHESLADKAVG-SqkvtckngqT---NCYQSKSTMRITDCRETgSSkypNCAYKTTQVEKHIIVACGgKpSVPVHFDASV---</p>

891	1m58A (106)	N	23.58	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.31 (Å)  mgnwetfqkxhltdtr-----D-VKDAEMKKALFD---CKQKNTFIYARPGRQALCKNIiv-----SKNVLSTDEFYLSDCNRIK-LP---CHYKLLKSSNTICITCE-N-KLPVHFVAVEecp  -----kesaaakferqhmdsgnsasssNYCNLMCCRKMTqgkCKPVNTFVHESLADKAVG-SQ--kkvtckdgtTNCYQSKSTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkpsVPVHEDASV----</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=4.57 (Å)  mgnwetfqkxhltdtrdvk-----CDAEMKKALFD---CKQKNTFIYARPGRQALCKNIIVSK-----NVLSTDEFYLSDCNRI---KLPCHYKLLK---SSNTICITCENKLPVHFVAV--veecp  -----kesaaakferqhmdsgnsasssnycnLMMCCRKMTQgkCKPVNTFVHESLADKAVCSQKKVTCKdgtncYOQSKSTMRITDCRETgsskypnCAKTTQVEKHIIVACGGKPSVPVHEDASV----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=24.53% (26/106) simi=33.96% (36/106)  mgnwetfqkxhltdtrdvkcdaemkkalfd-----CKQKNTFIYARPGRQALCKNIIVSK---VL-STDEFYLSDCNRI---KLP---CHYKLLKSSNTICITCENK---LPVHFVAV--veecp  -----kesaaakferqhmdsgnsasssnycnlmmccrkmTqgkCKPVNTFVHESLADKAVGsqkVKTCKDggtCYqSKSTMRITDCRETgsskypnCAKTTQVEKHIIVACGGkpsVPVHEDASV----</p> <p><b>Proposed:</b> aliSize=99 (resi) RMSD=2.06 (Å)  -MQNWETQKKHLT-DTRD---VKDAEMKK-ALFD---CKQKNTFIYARPGRQALCKNI-----iivSKNVLSTDEFYLSDCNRIK-LP---CHYKLLKSSNTICITCEN--KLPVHFVAVEecp  kESAAAKFEROHMDSGNSASSsNYCNLMCCRKMTQgkCKPVNTFVHESLADKAVG-Sqkvtckdgt---TNCYQSKSTMRITDCRETGSSkypnCAKTTQVEKHIIVACGGkpsVPVHEDASV----</p>
892	1m58A (106)	N	23.58	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.46 (Å)  mgnwetfqkxhltdtr-----D-VKDAEMKKALFD---CKQKNTFIYARPGRQALCKNIiv-----SKNVLSTDEFYLSDCNRI-KL---PCHYKLLKSSNTICITCE-N-KLPVHFVAVEecp  -----kesaaakferqhmdsgnsasssNYCNQMMCCRKMTqgkCKPVNTFVHESLADKAVG-SQ--kkvtckdgtTNCYQSKSTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkpsVPVHEDASV----</p> <p><b>SARST:</b> aliSize=99 (resi) RMSD=10.26 (Å)  mgn---WETQKKHL--TDTRDVK---CDAEMKKALFDC-----CKQKNTFIYARPGRQALCKNIIVSK-----NVLSTDEFYLSDCNRI---KLPCHYKLLK---SSNTICITCENKLPVHFVAV--veecp  ---kesAAKFEROHMDSGNSASSsNYCNQMMCCRKMTqgkCKPVNTFVHESLADKAVCSQKKVTCKdgtncYOQSKSTMRITDCRETgsskypnCAKTTQVEKHIIVACGGKPSVPVHEDASV----</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=24.53% (26/106) simi=33.96% (36/106)  mgnwetfqkxhltdtrdvkcdaemkkalfd-----CKQKNTFIYARPGRQALCKNIIVSK---VL-STDEFYLSDCNRI---KLP---CHYKLLKSSNTICITCENK---LPVHFVAV--veecp  -----kesaaakferqhmdsgnsasssnycnqmmccrkmTqgkCKPVNTFVHESLADKAVGsqkVKTCKDggtCYqSKSTMRITDCRETgsskypnCAKTTQVEKHIIVACGGkpsVPVHEDASV----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=2.08 (Å)  -MQNWETQKKHLTDTRDV---KDAEMKK-ALFD---CKQKNTFIYARPGRQALCKNI-----iivSKNVLSTDEFYLSDCNRI-KLP---CHYKLLKSSNTICITCE--KLPVHFVAVEecp  kESAAAKFEROHMDSGNSASSsNYCNQMMCCRKMTQgkCKPVNTFVHESLADKAVG-Sqkvtckdgt---TNCYQSKSTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkpsVPVHEDASV----</p>
893	1m58A (106)	N	23.58	<p><b>TM-align:</b> aliSize=84 (resi) RMSD=2.41 (Å)  mgnwetfqkxhltdtr-----D-VKDAEMKKALFD---CKQKNTFIYARPGRQALCKNIiv-----SKNVLSTDEFYLSDCNRI-KLP---CHYKLLKSSNTICITCE-N-KLPVHFVAVEecp  -----kesaaakferqhmdsstsaasNYCNLMCCRKMTqgkCKPVNTFVHESLADKAVG-SQ--kkvtckdgtTNCYQSKSTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkpsVPVHEDASV----</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=11.43 (Å)  mgn---WETQKKHL--TDTRDVK---CDAEMKKALFDC-----CKQKNTFIYARPGRQALCKNIIVSK-----NVLSTDEFYLSDCNRI---KLPCHYKLLK-----SSNTICITCENKLPVHFVAV--veecp  ---kesAAKFEROHMDSSTSAASSsNYCNLMCCRKMTqgkCKPVNTFVHESLADKAVCSQKKVTCKdgtncYOQSKSTMRITDCRETgsskypnCAKTTQVEKHIIVACGGKPS---VPVHEDASV----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=29.25% (31/106) simi=44.34% (47/106)  mgnwet-----QKKHLTDTRDVK---DAEM---KALFDCKQKNTFIYARPGRQALCKNIIVSK---VL-STDEFYLSDCNRI---KLP---CHYKLLKSSNTICITCENK---LPVHFVAV--veecp  -----kesaaakFEROHMDSSTSAASSsnyCNLMCCRKMTQgkCKPVNTFVHESLADKAVGsqkVKTCKDggtCYqSKSTMRITDCRETgsskypnCAKTTQVEKHIIVACGGkpsVPVHEDASV----</p> <p><b>Proposed:</b> aliSize=98 (resi) RMSD=2.02 (Å)  -MQNWETQKKHLTDTRDV---KDAEMKK-ALFD---CKQKNTFIYARPGRQALCKNI-----iivSKNVLSTDEFYLSDCNRI-KLP---CHYKLLKSSNTICITCE-N-KLPVHFVAVEecp  kESAAAKFEROHMDSSTSAASSsNYCNLMCCRKMTQgkCKPVNTFVHESLADKAVG-Sqkvtckdgt---TNCYQSKSTMRITDCRETGSSkypnCAKTTQVEKHIIVACGgkpsVPVHEDASV----</p>

894	<p>2e0oB (125)</p> <hr/> <p>1lbgA (124)</p>	N	69.35	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.10 (Å)  mkesrakkfqrqhmdsdspss-----SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -----kesaaakferqhmdsgnspssSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=9.84 (Å)  mk-ESRKKFQROHMDSDSPSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV-v  --kESAIAKFEROHMDSGNSPSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=71.77% (89/124) simi=80.65% (100/124)  mKESRKKFQROHMDSDSPSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -KESAIAKFEROHMDSGNSPSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=1.01 (Å)  mKESRKKFQROHMDSDSPSS-SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -KESAIAKFEROHMDS-GNSPSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p>
895	<p>2e0oB (125)</p> <hr/> <p>1y92B (124)</p>	N	70.16	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.92 (Å)  mkesrakkfqrqhmdsdspss-----SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=9.65 (Å)  mk-ESRKKFQROHMDSDSPSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV-v  --kESAIAKFEROHMDSGNASSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=99 (resi) iden=70.16% (87/124) simi=79.84% (99/124)  mKESRKKFQROHMDSDSPSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -KESAIAKFEROHMDSGNASSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.89 (Å)  mKESRKKFQROHMDSDSPSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -KESAIAKFEROHMDSGNASSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p>
896	<p>2e0oB (125)</p> <hr/> <p>3bcoA (124)</p>	N	69.35	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.07 (Å)  mkesrakkfqrqhmdsdspss-----SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSYTCNQIMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.46 (Å)  mk-ESRKKFQROHMDSDSPSS--SYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV-v  --kESAIAKFEROHMDS--GNASSSSYTCNQIMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV-v</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=70.97% (88/124) simi=80.65% (100/124)  mKESRKKFQROHMDSDSPSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -KESAIAKFEROHMDSGNASSSSYTCNQIMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.93 (Å)  mKESRKKFQROHMDSDSPSS-SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHTDCRLTNGSRYPNCAYRTSPKERHIVACEGSPYVPVHFDASV  -KESAIAKFEROHMDS-GNSASSSYTCNQIMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKNGGTCYQSKSTMRTDCREIGSSKYPNCAYKITQVEKHLIVACGGKPSVPVHFDASV</p>

897	<p>2e0oB (125)</p> <hr/> <p>1y94A (124)</p>	N	68.55	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.12 (Å)  mkesrakkfqrqhmdsdsps-----SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPCAYRTSPKERHIIVACEISYYPVHFDA SV  -----kesaaakferqhmdsstaaSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRI TDCREI GSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.46 (Å)  mk-ESRKKFQROHMDSDSSPS--SSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPCAYRTSPKERHIIVACEISYYPVHFDA S-v  --kESAAKFEROHMD--SSTsaaSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRI TDCREI GSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA Sv-</p> <p><b>BLAST:</b> aliSize=99 (resi) iden=69.35% (86/124) simi=79.84% (99/124)  mKESRKKFQROHMDSDSSPSSTSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPCAYRTSPKERHIIVACEISYYPVHFDA SV  -KESAAKFEROHMDSSTSAASSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRI TDCREI GSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.98 (Å)  mKESRKKFQROHMDSDSSPS-sSSSYTCNQIMRRNMTQGRCKPVNTFVHEPILLVQLVCLQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPCAYRTSPKERHIIVACEISYYPVHFDA SV  -KESAAKFEROHMDSSTSAAs-SSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRI TDCREI GSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p>
898	<p>1ymnA (124)</p> <hr/> <p>1lbgA (124)</p>	N	80.65	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.07 (Å)  ketaaakferqhmdsstaa-----SSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA SV  -----kesaaakferqhmdsgnspSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=9.81 (Å)  k-ETAAAKFEROHMDS-STSAASSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA S-v  -kESAAAKFEROHMDSGNSPSSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA Sv-</p> <p><b>BLAST:</b> aliSize=106 (resi) iden=80.65% (100/124) simi=85.48% (106/124)  KETAAAKFEROHMDSSTSAASSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA SV  KESAAAKFEROHMDSGNSPSSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.10 (Å)  KETAAAKFEROHMDSSTSAASSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA SV  KESAAAKFEROHMDSGNSPSSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p>
899	<p>1ymnA (124)</p> <hr/> <p>1y92B (124)</p>	N	80.65	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.94 (Å)  ketaaakferqhmdsstaa-----SSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA SV  -----kesaaakferqhmdsgnsasSSSYTCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>SARST:</b> aliSize=122 (resi) RMSD=9.71 (Å)  k-ETAAAKFEROHMDSSTSAASSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA S-v  -kESAAAKFEROHMDSGNSASSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA Sv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=80.65% (100/124) simi=86.29% (107/124)  KETAAAKFEROHMDSSTSAASSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA SV  KESAAAKFEROHMDSGNSASSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=0.99 (Å)  KETAAAKFEROHMDSSTSAASSSYTCNQIMKSNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKLPNCAYKTTQANKHIIVACEINFPVHFDA SV  KESAAAKFEROHMDSGNSASSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSQKNVACKNGOTNCYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p>

900	lymnA (124)	N	81.45	<p>TM-align: aliSize=104 (resi) RMSD=1.12 (Å)</p> <p>ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=9.26 (Å)</p> <p>k-ETAAAKFERQHMD---SSTSaassSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDAS-v  -kESAAAKFERQHMDsgnsASS---SNYCNQMMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=108 (resi) iden=81.45% (101/124) simi=87.10% (108/124)</p> <p>KEETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=1.09 (Å)</p> <p>KEETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	3bcoA (124)			
901	lymnA (124)	N	83.06	<p>TM-align: aliSize=104 (resi) RMSD=1.17 (Å)</p> <p>ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDASV  -----kesaaakferqhmdsstaaSSSNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.62 (Å)</p> <p>k-ETAAAKFERQHMDS-STSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDAS-v  -kESAAAKFERQHMDSsTSAASS-SNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=109 (resi) iden=83.06% (103/124) simi=87.90% (109/124)</p> <p>KEETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSSTSAASSSNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=1.15 (Å)</p> <p>KEETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKLPNCAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSSTSAASSSNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1y94A (124)			
902	1a5pA (124)	N	79.84	<p>TM-align: aliSize=104 (resi) RMSD=0.84 (Å)</p> <p>ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRAPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKYPNAAYKTTQANKHIIVACEINPYVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.75 (Å)</p> <p>k-ETAAAKFERQHMDS-STSAASSSNYCNQMMKSRNLTKDRAPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKYPNAAYKTTQANKHIIVACEINPYVPVHFDAS-v  -kESAAAKFERQHMDSgNSPSSS-SNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=105 (resi) iden=79.84% (99/124) simi=84.68% (105/124)</p> <p>KEETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRAPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKYPNAAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.91 (Å)</p> <p>KEETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRAPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSTIDCRETGSSKYPNAAYKTTQANKHIIVACEINPYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQCKPNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1lbgA (124)			

903	1a5pA (124)	N	79.84	<p>TM-align: aliSize=104 (resi) RMSD=0.81 (Å)</p> <p>ketaaakferqhmds <b>tsaa</b>-----SSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=122 (resi) RMSD=9.66 (Å)</p> <p>k-ETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDAS-v  -kESAAAKFERQHMD<b>S</b>NSASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=106 (resi) iden=79.84% (99/124) simi=85.48% (106/124)</p> <p>KEETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  KESAAAKFERQHMD<b>S</b>NSASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.89 (Å)</p> <p>KEETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  KESAAAKFERQHMD<b>S</b>NSASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1y92B (124)			
904	1a5pA (124)	N	80.65	<p>TM-align: aliSize=104 (resi) RMSD=0.88 (Å)</p> <p>ketaaakferqhmd <b>ss</b>tsaa-----SSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.56 (Å)</p> <p>k-ETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDAS-v  -kESAAAKFERQHMD<b>S</b>NSASSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=107 (resi) iden=80.65% (100/124) simi=86.29% (107/124)</p> <p>KEETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  KESAAAKFERQHMD<b>S</b>NSASSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.89 (Å)</p> <p>KEETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  KESAAAKFERQHMD<b>S</b>NSASSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	3bcoA (124)			
905	1a5pA (124)	N	82.26	<p>TM-align: aliSize=104 (resi) RMSD=0.97 (Å)</p> <p>ketaaakferqhmd <b>ss</b>tsaa-----SSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  -----kesaaakferqhmd <b>ss</b>tsaaSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.56 (Å)</p> <p>k-ETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDAS-v  -kESAAAKFERQHMD<b>S</b>STAASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=108 (resi) iden=82.26% (102/124) simi=87.10% (108/124)</p> <p>KEETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  KESAAAKFERQHMD<b>S</b>STAASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.97 (Å)</p> <p>KEETAAAKFERQHMD<b>S</b>STAASSSNYCNQMMKSRNLTKDRAKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNAAYKTTQANKHIIVACEINIFYVPVHFDASV  KESAAAKFERQHMD<b>S</b>STAASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1y94A (124)			

906	<p>1z5fA (105)</p> <hr/> <p>1lbgA (124)</p>	N	21.90	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=3.09 (Å)  dwetfqkhhlttdtk-----K-VKCDVEIAKALFD--CK-KTNTFIYALPGRVKALCKNIrd-----NTDVL SRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGVgscp  -----kesaaakferqhmdsgnspsSSsNYCNLMCCRKMTQgkCkPVNTHVHESLADVKAVCSQK--kvtckngqTNCYQSKSTMRIIDCRETGSSkypnAYKTTQVEKHIIVACGgkPSVPVHFDA SV---</p> <p><b>SARST:</b> aliSize=84 (resi) RMSD=11.40 (Å)  d-----WETFQKKHLTDTKKVKCDVEIAKALFD--CK-KTNTFIYALPGRVKALCKNIrd-----TDVLSRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGV----gscp  -kesaaakFERQHMDSGNSPSS--SSNYcnlmmCCRKMTQgkCkPVNTHVHESLADVKAVCSQKVTCKngqtTNCYQSKSTMRIIDCRETGSSkypncayktqVEKHIIVACG-GKPSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=22 (resi) iden=14.42% (15/105) simi=21.15% (22/105)  dwetfqkhhlttdtkvKCDVemakalfd-----CKKTNTFIYALPGRVKALCKNIrdndvlsrdaflpqpCDRIKLPCHYKLSSTNTICITV-----itcvnqlpihfagvgscp  -----kesaaakferqhmdsgnspsSSsNYcnlmmccrkmTQgkCkPVNTHVHESLADVKAVCSQ--KKV-----KNGQTNCYQSKSTMRIIDCRETGSSkypncayktqvekhivacggkpsvpvhf dasv-----</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=2.32 (Å)  p--DWETFQKKHLTDTKKVKCDVEIAK-ALFD--CKKTNTFIYALPGRVKALCKNI-----rdnTDVLSRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGVgscp  -kesAAAKFERQHMDSGNSPSSsSNYCNLMCCRKMTQgkCkPVNTHVHESLADVKAVCS--Sqqkvtckngqt---NCYQSKSTMRIIDCRETGSSkypnAYKTTQVEKHIIVACGgkPSVPVHFDA SV---</p>
907	<p>1z5fA (105)</p> <hr/> <p>1y92B (124)</p>	N	20.95	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.88 (Å)  dwetfqkhhlttdtk-----K-VKCDVEIAKALFD--CK-KTNTFIYALPGRVKALCKNIrd-----NTDVL SRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGVgscp  -----kesaaakferqhmdsgnsasSSsNYCNLMCCRKMTQgkCkPVNTHVHESLADVKAVCSQK--kvtckdgqTNCYQSKSTMRIIDCRETGSSkypnAYKTTQVEKHIIVACGgkPSVPVHFDA SV---</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=6.67 (Å)  dwetfqkhhlttdtkvk-----CDVEMAKALFD--CKKTNTFIYALPGRVKALCKNIrdndvlsrdaflpqpCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGV----gscp  -----kesaaakferqhmdsgnsasSSsNYcnlmmCCRKMTQgkCkPVNTHVHESLADVKAVCSQKVTCKDGTNCYQsks tmRITDCRETGSSkypnAYKTTQVEKHIIVACG-GKPSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=15.38% (16/105) simi=23.08% (24/105)  dwetfqkhhlttdtkvkCDVemakalfd-----CKKTNTFIYALPGRVKALCKNIrdndvlsrdaflpqpCDRIKLPCHYKLSSTNTICITV-----itcvnqlpihfagvgscp  -----kesaaakferqhmdsgnsasSSsNYcnlmmccrkmTQgkCkPVNTHVHESLADVKAVCSQK-----VTCKDG-----QTN-----CYQSKSTMRIIDCRETGSSkypncayktqvekhivacggkpsvpvhf dasv-----</p> <p><b>Proposed:</b> aliSize=96 (resi) RMSD=2.27 (Å)  p--DWETFQKKHLTDTKKVKCDVEIAK-ALFD--CKKTNTFIYALPGRVKALCKNI-----rdnTDVLSRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGVgscp  kESAAAKFERQHMDSGNSasSSsSNYCNLMCCRKMTQgkCkPVNTHVHESLADVKAVCS--Sqqkvtckdgqt---NCYQSKSTMRIIDCRETGSSkypnAYKTTQVEKHIIVACGgkPSVPVHFDA SV---</p>
908	<p>1z5fA (105)</p> <hr/> <p>3bcoA (124)</p>	N	20.00	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=3.04 (Å)  dwetfqkhhlttdtk-----K-VKCDVEIAKALFD--CK-KTNTFIYALPGRVKALCKNIrd-----NTDVL SRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGVgscp  -----kesaaakferqhmdsgnsasSSsNYCNLMCCRKMTQgkCkPVNTHVHESLADVKAVCSQK--kvtckdgqTNCYQSKSTMRIIDCRETGSSkypnAYKTTQVEKHIIVACGgkPSVPVHFDA SV---</p> <p><b>SARST:</b> aliSize=82 (resi) RMSD=4.89 (Å)  dwetfqkhhlttdtkvk-----CDVEMAKALFD--CKKTNTFIYALPGRVKALCKNIrdndvlsrdaflpqpCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGV----gscp  -----kesaaakferqhmdsgnsasSSsNYcnlmmCCRKMTQgkCkPVNTHVHESLADVKAVCSQKVTCKDGTNCYQsks tmRITDCRETGSSkypnAYKTTQVEKHIIVACG-GKPSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=15.38% (16/105) simi=23.08% (24/105)  dwetfqkhhlttdtkvkCDVemakalfd-----CKKTNTFIYALPGRVKALCKNIrdndvlsrdaflpqpCDRIKLPCHYKLSSTNTICITV-----itcvnqlpihfagvgscp  -----kesaaakferqhmdsgnsasSSsNYcnlmmccrkmTQgkCkPVNTHVHESLADVKAVCSQK-----VTCKDG-----QTN-----CYQSKSTMRIIDCRETGSSkypncayktqvekhivacggkpsvpvhf dasv-----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=2.47 (Å)  p--DWETFQKKHLTDTKKVKCDVEIAK-ALFD--CKKTNTFIYALPGRVKALCKNI-----rdnTDVLSRDAFLLPQCDRIKLP---PCHYKLSSTNTICITV--NQLPIHFAGVgscp  kESAAAKFERQHMDSGNSasSSsSNYCNLMCCRKMTQgkCkPVNTHVHESLADVKAVCS--Sqqkvtckdgqt---NCYQSKSTMRIIDCRETGSSkypnAYKTTQVEKHIIVACGgkPSVPVHFDA SV---</p>

909	2bw1A (118)	N	35.59	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.74 (Å)  ddsrytkfl tqhhdakpk-----GRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR-----ENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHFEsFF  -----kesaaakferqhmdsgnspSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckngqTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.84 (Å)  dd--SRYTKFLTOHHDAKPKGRDD---RYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR---NLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHF----desf  --keSAAAKFERQHMD--S-GNSPSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKNgqtCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=37.61% (44/118) simi=56.41% (66/118)  d-DSRYTKFLTOHHDA-KPKGRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR---NLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE--ENGLPVHFEs-f  -kesAAAKFERQHMDsgnSPSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKNgqtCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkPSVPVHFDAsv-</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.46 (Å)  DDSRYTKFLTOHHDAK-PKG-rdRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR-----ENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHFEsFF  KESAAAKFERQHMDsgnSPSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckngqTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV</p>
910	2bw1A (118)	N	34.75	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.73 (Å)  ddsrytkfl tqhhdakpk-----GfDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR---EN-LRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHFEsFF  -----kesaaakferqhmdsgnsasS-SSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgOTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=9.65 (Å)  dd--SRYTKFLTOHHDAKPKGRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPY---RENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHF----desf  --keSAAAKFERQHMDsgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKdgOTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=36.75% (43/118) simi=55.56% (65/118)  d-DSRYTKFLTOHHDA-KPKGRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR---NLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE--ENGLPVHFEs-f  -kesAAAKFERQHMDsgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDgqtCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkPSVPVHFDAsv-</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.59 (Å)  DDSRYTKFLTOHHDAKPKGRD-DRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR---ENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHFEsFF  KESAAAKFERQHMDsgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV</p>
911	2bw1A (118)	N	35.59	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.82 (Å)  ddsrytkfl tqhhdakpk-----GRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR-----ENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHFEsFF  -----kesaaakferqhmdsgnsaSSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=9.75 (Å)  dd--SRYTKFLTOHHDAKPKGRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPY---RENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHF----desf  --keSAAAKFERQHMDsgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKdgOTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=36.75% (43/118) simi=56.41% (66/118)  d-DSRYTKFLTOHHDA-KPKGRDDRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR---NLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE--ENGLPVHFEs-f  -kesAAAKFERQHMDsgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDgqtCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkPSVPVHFDAsv-</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.54 (Å)  DDSRYTKFLTOHHDAK-PKG-rdRYCERMMKRSLTS-PCKDNTFIHGKNSNIKAI CGANGSPYR-----ENLRMSKSPFOVITCKHTGGSPRPPQYRASAGFRHVVIACE-N-GLPVHFEsFF  KESAAAKFERQHMDsgNSASSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTnCYOSKSTMRIIDCRETGSSKYPNCAKTTQVEKHIIVACGGkpSVPVHFDA-SV</p>
	3bcoA (124)			



912	<p>2bw1A (118)</p> <p>1y94A (124)</p>	N	33.90	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.90 (Å)  ddsrytkfl tqhhdakpk-----GRDDRYCERMMKRSLIS-PCKDINTFIHGKNSNIKAI CGANGSPYR----EN-LRMSKSPFOVITTKHIT-GGSprPPCOYRASAGFRHVVIACEN--GLPVHFEsFF  -----kesaaakferqhmdsstsaASSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgQTnCYQSKSTMRIIDRETGSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFDA-SV</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=9.59 (Å)  dd--SRYTKFLTOHH--AKPKGRDDRYCERMMKRSLIS-PCKDINTFIHGKNSNIKAI CGANGSPYRE----NLRMSKSPFOVITTKHITGGSPRPPCOYRASAGFRHVVIACEN--GLPVHF----desf  --keSAAAKFEROHMDSSTSAASSS-NYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDgqtNCYQSKSTMRIIDRETGSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFdasv----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=36.75% (43/118) simi=55.56% (65/118)  d-DSRYTKFLTOHHAKPKGRDD-RYCERMMKRSLIS-PCKDINTFIHGKNSNIKAI CGANGSPYRE----NLRMSKSPFOVITTKHITGGSPRPPCOYRASAGFRHVVIAC--ENGLPVHFEDES-f  --kesAAAKFEROHMDSSTSAASSS-NYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDgqtNCYQSKSTMRIIDRETGSSKYPNCAIKTTQVEKHIIVACggKPSVPVHFDA-SV-</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.42 (Å)  DDSRYTKFLTOHHAK-PKG--rdRYCERMMKRSLIS-PCKDINTFIHGKNSNIKAI CGANGSPYR----ENLRMSKSPFOVITTKHIT-GGSprPPCOYRASAGFRHVVIACEN--GLPVHFEsFF  KESAAAKFEROHMDSSTSAASSS--SNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCS--QKKVTckdgqTnCYQSKSTMRIIDRETGSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFDA-SV</p>
913	<p>1gy7A (123)</p> <p>11bgA (124)</p>	N	40.65	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=1.82 (Å)  dnsrythfl tqhydakpq-----GRDDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVACE-N-GLPVHLDQsIFr  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKNGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=9.32 (Å)  dns---RYTHFLTOHYDAKPOGR-DDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVACEN--GLPVHL----dqsifr  ---kesAAAKFEROHMDSGNspSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKNGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=73 (resi) iden=41.80% (51/123) simi=59.84% (73/123)  dnsryth-----LTOHYDA--KPOGRDDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVAC--ENGLPVHLDQsIFr  -----kesaaakFEROHMDSGNspSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKNGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACggKPSVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.42 (Å)  pdn--SRYTHFLTOHYDAKPOGR-DDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVACE-N-GLPVHLDQsI-fr  ---keSAAAKFEROHMDSGNspSSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKNGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFDA-Sv--</p>
914	<p>1gy7A (123)</p> <p>1y92B (124)</p>	N	39.02	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=1.89 (Å)  dnsrythfl tqhydakpq-----GRDDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVACEN--GLPVHLDQsIFr  -----kesaaakferqhmdsgnsASSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=9.17 (Å)  dns---RYTHFLTOHYDAKPOGRDDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVACEN--GLPVHL----dqsifr  ---kesAAAKFEROHMDSNSASSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=40.16% (49/123) simi=58.20% (71/123)  dnsryth-----LTOHYDA--KPOGRDDRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHGSPWPPOYRATAGFRNVVAC--ENGLPVHLDQsIFr  -----kesaaakFEROHMDSNSASSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACggKPSVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.28 (Å)  pdn--SRYTHFLTOHYDAKPOGR--dRYCESTIRRRGLIS-PCKDINTFIHGKRSIKAI CSOKNVACKNGQTCYI SKSSFOVITTKLHG--GSprPPCOYRATAGFRNVVACEN--GLPVHLDQsI-fr  ---keSAAAKFEROHMDSNSASSSNYCNLMCCRKMTQgKCKPNTFVHESLADVKAVCSQKKVTCKDGQTCYQSKSTMRIIDRETSSKYPNCAIKTTQVEKHIIVACGGkpSVPVHFDA-Sv--</p>

915	<p>1gv7A (123)</p> <hr/> <p>3bcoA (124)</p>	N	39.84	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=1.88 (Å)        dnsrythfl tqhyda kpg-----GRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVACE-N-GLPVHLDQsIFr        -----kesaaakferqhmdsgnsaSSSSNYCNQMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=9.26 (Å)        dns---RYTHLTOHYDAKPOGRDDR- YCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVACEN--GLPVHL----dqsifr        ---kesAAAKFEROHMSSGNSASSSSNYCNQMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=40.16% (49/123) simi=58.20% (71/123)        dnsryth-----LTOHYDAKPOGRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVAC--ENGLPVHLDQsIFr        -----kesaaakFEROHMSSGNSASSSSNYCNQMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.36 (Å)        pdn--RYTHLTOHYDAK--POG-rdDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVACEN--GLPVHLDQsI-f r        ---kesAAAKFEROHMSSGNSASSSSNYCNQMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFDA-Sv--</p>
916	<p>1gv7A (123)</p> <hr/> <p>1y94A (124)</p>	N	39.84	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=1.92 (Å)        dnsrythfl tqhyda kpg-----GRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVACE-N-GLPVHLDQsIFr        -----kesaaakferqhmdsstsaASSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFDA-SV-</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=9.17 (Å)        dns---RYTHLTOHYDAKPOGRDDR- YCESIMRRRGLTSPCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVACEN--GLPVHL----dqsifr        ---kesAAAKFEROHMSSSTAASSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFdasv-----</p> <p><b>BLAST:</b> aliSize=71 (resi) iden=40.16% (49/123) simi=58.20% (71/123)        dnsryth-----LTOHYDAKPOGRDDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVAC--ENGLPVHLDQsIFr        -----kesaaakFEROHMSSSTAASSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFDA-SV--</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.36 (Å)        pdn--RYTHLTOHYDAK--POG-rdDRYCESIMRRRGLTS-PCKDINTFIHGKRSIKAI CSOKNVACKNGOTNCY I SKSSFQVTT KLHGGSPWPPQYRAIAGFRNVVACEN--GLPVHLDQsI-f r        ---kesAAAKFEROHMSSSTAASSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSOKKVTCKDGTNCYQSKSTMRIIDRETSSSKYPNCAKTTQVEKHIIVACGGkpsVPVHFDA-Sv--</p>
917	<p>1rraA (124)</p> <hr/> <p>1lbgA (124)</p>	N	66.13	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.03 (Å)        aessadkfrqhmdtegpsk-----SSPTYCNQMMKROGHTKGSCKPVNTEVHESLADVKAVCSQGOVTCCKNGRNNCHKSSSTLRIIDCR LKSSSKYPNCDYTTTDSQKHIIVACDGNFYVPVHFDA-SV        -----kesaaakferqhmdsgnpsSSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETSSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-SV</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=9.62 (Å)        ae--SSADKFKROHMDTEGPSKSSPTYCNQMMKROGHTKGSCKPVNTEVHESLADVKAVCSQGOVTCCKNGRNNCHKSSSTLRIIDCR LKSSSKYPNCDYTTTDSQKHIIVACDGNFYVPVHFDA-SV        --kesAAAKFEROHMSSGNSPSSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETSSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-SV</p> <p><b>BLAST:</b> aliSize=96 (resi) iden=66.13% (82/124) simi=77.42% (96/124)        a--SSADKFKROHMDTEGPSKSSPTYCNQMMKROGHTKGSCKPVNTEVHESLADVKAVCSQGOVTCCKNGRNNCHKSSSTLRIIDCR LKSSSKYPNCDYTTTDSQKHIIVACDGNFYVPVHFDA-SV        -kesAAAKFEROHMSSGNSPSSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETSSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-SV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.18 (Å)        AESSADKFKROHMDTEGPSKSSPTYCNQMMKROGHTKGSCKPVNTEVHESLADVKAVCSQGOVTCCKNGRNNCHKSSSTLRIIDCR LKSSSKYPNCDYTTTDSQKHIIVACDGNFYVPVHFDA-SV        KESAAAKFEROHMSSGNSPSSSNYCNLMMCCRKMTQgKCKPVNTEVHESLADVKAVCSQKVTCKNGOTNCYQSKSTMRIIDCRETSSSKYPNCAKTTQVEKHIIVACGGKPSVPVHFDA-SV</p>

918	<p>IrraA (124)</p> <hr/> <p>1y92B (124)</p>	N	65.32	<p><b>TM-align:</b> aliSize=104 (resi)      RMSD=0.82 (Å)  aessadkfrqhmdtegpsk-----SSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  -----kesaakferqhmdsgnsasSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=122 (resi)      RMSD=9.61 (Å)  a-ESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDAS -v  -kESA AKFEROHMDSGNSASSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=97 (resi)      iden=65.32% (81/124)      simi=78.23% (97/124)  a-ESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  -kESA AKFEROHMDSGNSASSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi)      RMSD=0.76 (Å)  AESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  KESA AKFEROHMDSGNSASSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p>
919	<p>IrraA (124)</p> <hr/> <p>3bcoA (124)</p>	N	66.13	<p><b>TM-align:</b> aliSize=104 (resi)      RMSD=1.06 (Å)  aessadkfrqhmdtegpsk-----SSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  -----kesaakferqhmdsgnsasSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=120 (resi)      RMSD=9.38 (Å)  a-ESSADKFKROHMDteGPSK--SSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDAS -v  -kESA AKFEROHMD--SGNSASSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=98 (resi)      iden=66.13% (82/124)      simi=79.03% (98/124)  a-ESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  -kESA AKFEROHMDSGNSASSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi)      RMSD=1.13 (Å)  AESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  KESA AKFEROHMDSGNSASSSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p>
920	<p>IrraA (124)</p> <hr/> <p>1y94A (124)</p>	N	65.32	<p><b>TM-align:</b> aliSize=104 (resi)      RMSD=1.05 (Å)  aessadkfrqhmdtegpsk-----SSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  -----kesaakferqhmdsstsaasSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=122 (resi)      RMSD=9.60 (Å)  a-ESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDAS -v  -kESA AKFEROHMDSSTSAASSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=97 (resi)      iden=65.32% (81/124)      simi=78.23% (97/124)  a-ESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  -kESA AKFEROHMDSSTSAASSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=124 (resi)      RMSD=1.16 (Å)  AESSADKFKROHMDTEGPSKSSPTTCNQMMKROGHTKGSCKPVNTFVHEPLEDVQAI CSQGQVTCNGRNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHI I IACDGNFYVPVHFDASV  KESA AKFEROHMDSSTSAASSSNYCNLMCCRKITQCKKCPVNTFVHESLADVKAVCSQKVTCKDQOTNCYQSKSTMRI TDCRETGSSKYPNCAKTTQVEKHI IVACGGKPSVPVHFDASV</p>

921	<p>2q4gX (126)</p> <hr/> <p>1lbgA (124)</p>	N	69.35	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.92 (Å)  esrakkfqrqhmdsdsps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  -----kesaaakferqhmdsgnspsSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKGDTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=9.64 (Å)  e--SRKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASV-veds  -keSAAKFEROHMDSGNSPSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKGDTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASVv----</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=71.77% (89/124) simi=80.65% (100/124)  -ESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  kESAAAKFEROHMDSGNSPSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKGDTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.85 (Å)  -ESRAKKFQROHMDSDSSPSS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  kESAAAKFEROHMDSGNSPSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKGDTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p>
922	<p>2q4gX (126)</p> <hr/> <p>1y92B (124)</p>	N	70.16	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.89 (Å)  esrakkfqrqhmdsdsps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  -----kesaaakferqhmdsgnsasSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=8.22 (Å)  esra----KQROHMDSDSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASV-veds  ----kesaaakferqhmdsgnsasSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASVv----</p> <p><b>BLAST:</b> aliSize=99 (resi) iden=70.16% (87/124) simi=79.84% (99/124)  -ESRAKKFQROHMDSDSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  kESAAAKFEROHMDSGNSASSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.75 (Å)  -ESRAKKFQROHMDSDSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  kESAAAKFEROHMDSGNSASSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p>
923	<p>2q4gX (126)</p> <hr/> <p>3bcoA (124)</p>	N	70.97	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.95 (Å)  esrakkfqrqhmdsdsps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=9.43 (Å)  e--SRKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASV-veds  -keSAAKFEROHMDSGNSASSSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASVv----</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=70.97% (88/124) simi=80.65% (100/124)  -ESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  kESAAAKFEROHMDSGNSASSSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.95 (Å)  -ESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFJEKVTCKNGGNCYKSNSSMHI TDCRLNGSRYPNCAYRTSPKERHI IVACEISFYVPVHFDASVeds  kESAAAKFEROHMDSGNSASSSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCCKDGTNICYOSKSTMRI TDCREIGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV----</p>

924	<p>2q4gX (126)</p> <p>1y94A (124)</p>	N	69.35	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.01 (Å)  esrakkfqrqhmdsdsps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  -----kesaaakferqhmdsstaasSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=8.23 (Å)  esra----KQFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASV-veds  ---kesaaakferqhmdsstaasSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASVv----</p> <p><b>BLAST:</b> aliSize=99 (resi) iden=69.35% (86/124) simi=79.84% (99/124)  -ESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  kESAAAKFEROHMDSSSTAASSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=1.03 (Å)  -ESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  kESAAAKFEROHMDSSSTAASSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p>
925	<p>2k11A (127)</p> <p>1lbgA (124)</p>	N	67.74	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=1.45 (Å)  kesrakkfqrqhmdsdsps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTC-KNGQgNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  -----kesaaakferqhmdsgnspSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKKNGQT-NCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.69 (Å)  ke--SRKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASV--sveds  --kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKKNGQT-NCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASVsv----</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=72.58% (90/124) simi=81.45% (101/124)  KESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTC-KNGQgNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  KESAAAKFEROHMDSGNSPSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKKNGQT-NCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=1.31 (Å)  KESRAKKFQROHMDSDsSPS-S-SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTC-KNGQgNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  KESAAAKFEROHMDS--GNSpSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKKNGQT-NCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p>
926	<p>2k11A (127)</p> <p>1y92B (124)</p>	N	70.97	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.45 (Å)  kesrakkfqrqhmdsdsps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  -----kesaaakferqhmdsgnsasSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=9.67 (Å)  k-ESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASV--sveds  -kESAAAKFEROHMDSGNSASSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASVsv----</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=70.97% (88/124) simi=80.65% (100/124)  KESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTC-KNGQgNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  KESAAAKFEROHMDSGNSASSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.43 (Å)  KESRAKKFQROHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLTNGSRYPNCAYRTSPKERHI IVACEGSPYVPVHFDASVeds  KESAAAKFEROHMDSGNSASSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTKDGGTNCYOSKSTMRI TDCRETGSSKYPNCAYKITQVEKHI IVACGGKPSVPVHFDASV----</p>

927	<p>2k11A (127)</p> <hr/> <p>3bcoA (124)</p>	N	68.55	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=1.45 (Å)  kesrakkfqrqhm dsdssps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA SVeds  -----kesaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV----</p> <p><b>SARST:</b> aliSize=117 (resi) RMSD=9.24 (Å)  k-SSRKKFQROHM----DSDSspsSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA--sveds  -kESA AAKFEROHMds gnsSASS---SSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA sv-----</p> <p><b>BLAST:</b> aliSize=101 (resi) iden=71.77% (89/124) simi=81.45% (101/124)  KESRAKKFQROHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA SVeds  KESAAAKFEROHMDSGNSASSSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=1.31 (Å)  KESRAKKFQROHMDSDsSPS-S-SSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA SVeds  KESAAAKFEROHMDS--GNSaSsSSNYCNQMMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV----</p>
928	<p>2k11A (127)</p> <hr/> <p>1y94A (124)</p>	N	67.74	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=1.43 (Å)  kesrakkfqrqhm dsdssps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA SVeds  -----kesaakferqhmdsstsaasSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV----</p> <p><b>SARST:</b> aliSize=102 (resi) RMSD=1.59 (Å)  kesrakkfqrqhm dsdssps-----SSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA--sveds  -----kesaakferqhmdsstsaasSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA sv-----</p> <p><b>BLAST:</b> aliSize=100 (resi) iden=70.16% (87/124) simi=80.65% (100/124)  KESRAKKFQROHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA SVeds  KESAAAKFEROHMDSSTSAASSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV----</p> <p><b>Proposed:</b> aliSize=121 (resi) RMSD=1.33 (Å)  KESRAKKFQROHMDSDsSPS-SS-SSTYCNQMMRRRNMTQGRCKPVNTFVHEP LVDVQNVCFEKEVTC-KNGQgNCYKSNSSMHI TDCRLINGSRYPNCAYRTSPKERHIIVACEISFYVPVHFDA SVeds  KESAAAKFEROHMDS--STSaASsSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV----</p>
929	<p>2aasA (124)</p> <hr/> <p>1lbgA (124)</p>	N	81.45	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.43 (Å)  ketaaakferqhmdsstsa-----SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCREIGSSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDA SV  -----kesaakferqhmdsgnspSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=8.84 (Å)  keta----AAKFEROHMDS-STSAASsSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCREIGSSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDA SV-v  ----kesaAAKFEROHMDSgNSPSSS-SNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  KETAAAKFEROHMDSSTSAASSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCREIGSSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDA SV  KESAAAKFEROHMDSGNSPSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p> <p><b>Proposed:</b> aliSize=124 (resi) RMSD=1.42 (Å)  KETAAAKFEROHMDSSTSAASSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSOKNACKNGOTNCYOSYSTMSITDCREIGSSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDA SV  KESAAAKFEROHMDSGNSPSSSNYCNLMCCRKMTQGRCKPVNTFVHESLADVKAVCSOKKVTCkDGQT-NCYOSKSTMRI TDCREIGSSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDA SV</p>

930	<p>2aasA (124)</p> <hr/> <p>1y92B (124)</p>	N	81.45	<p>TM-align: aliSize=104 (resi) RMSD=1.37 (Å)  ketaaakferqhmdss <b>tsaa</b>-----SSSSYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSSYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=122 (resi) RMSD=9.68 (Å)  k-ETAAAKFERQHMDSS<b>TSAA</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV-v  -kESAAAKFERQHMDSGNS<b>AS</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=108 (resi) iden=81.45% (101/124) simi=87.10% (108/124)  <b>KE</b>TAAAKFERQHMDSS<b>TSAA</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMDSGNS<b>AS</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=1.38 (Å)  <b>KE</b>TAAAKFERQHMDSS<b>TSAA</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMDSGNS<b>AS</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
931	<p>2aasA (124)</p> <hr/> <p>3bcoA (124)</p>	N	82.26	<p>TM-align: aliSize=104 (resi) RMSD=1.46 (Å)  ketaaakferqhmdsst <b>saa</b>-----SSSSYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaaakferqhmdsgns <b>as</b>SSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=9.22 (Å)  k-ETAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV-v  -kESAAAKFERQHMDSGNS<b>S</b>SSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=109 (resi) iden=82.26% (102/124) simi=87.90% (109/124)  <b>KE</b>TAAAKFERQHMDSS<b>TSAA</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMDSGNS<b>AS</b>SSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=1.41 (Å)  <b>KE</b>TAAAKFERQHMDSS<b>TSAA</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMDSGNS<b>AS</b>SSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
932	<p>2aasA (124)</p> <hr/> <p>1y94A (124)</p>	N	83.87	<p>TM-align: aliSize=104 (resi) RMSD=1.52 (Å)  ketaaakferqhmdsst <b>saa</b>-----SSSSYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaaakferqhmdsst <b>saa</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=9.28 (Å)  k-ETAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV-v  -kESAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=110 (resi) iden=83.87% (104/124) simi=88.71% (110/124)  <b>KE</b>TAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=1.47 (Å)  <b>KE</b>TAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNQMMKSRNLTkDRCKPVNTFVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMDSS<b>S</b>TS<b>sa</b>SSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

933	2nuiA (124)	N	80.65	<p>TM-align: aliSize=104 (resi) RMSD=0.79 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  -----kesaaakferqhmdsgnspssSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.85 (Å)  k-ETAAAKFERQHMDSTSAASS-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDAS-v  -kESAAAKFERQHMDS-GNSPSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=106 (resi) iden=80.65% (100/124) simi=85.48% (106/124)  KETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.84 (Å)  KETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKNGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1lbgA (124)			
934	2nuiA (124)	N	80.65	<p>TM-align: aliSize=104 (resi) RMSD=0.83 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=122 (resi) RMSD=9.72 (Å)  k-ETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDAS-v  -kESAAAKFERQHMDS-GNSASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=107 (resi) iden=80.65% (100/124) simi=86.29% (107/124)  KETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDS-GNSASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.87 (Å)  KETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDS-GNSASSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	1y92B (124)			
935	2nuiA (124)	N	81.45	<p>TM-align: aliSize=104 (resi) RMSD=0.86 (Å)  ketaaakferqhmdsstaa-----SSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  -----kesaaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.62 (Å)  k-ETAAAKFERQHMDSTSAASS-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDAS-v  -kESAAAKFERQHMDS-GNSASSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=108 (resi) iden=81.45% (101/124) simi=87.10% (108/124)  KETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.83 (Å)  KETAAAKFERQHMDSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGOTNCYQSYSTMSTIACRETGSSKYPNCAYKTTQANKHIIVACEINFYVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
	3bcoA (124)			



936	<p>2nuiA (124)</p> <hr/> <p>1y94A (124)</p>	N	83.06	<p>TM-align: aliSize=104 (resi) RMSD=0.93 (Å)  ketaaakferqhmdsstaa-----SSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsstaaSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.61 (Å)  k-ETAAAKFERQHMD-SSTAASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  -kESAAAKFERQHMD-SSTAASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=109 (resi) iden=83.06% (103/124) simi=87.90% (109/124)  KETAAAKFERQHMD-SSTAASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMD-SSTAASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.89 (Å)  KETAAAKFERQHMD-SSTAASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMD-SSTAASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
937	<p>1qwqA (124)</p> <hr/> <p>1lbgA (124)</p>	N	92.74	<p>TM-align: aliSize=105 (resi) RMSD=2.01 (Å)  kesaaakferqhmdsgnsp-----SSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=8.80 (Å)  kesaa---AKFERQHMDSGNSPS--SSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  ----kesAAKFERQHMDSGNSPSSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=124 (resi) iden=99.19% (123/124) simi=100.00% (124/124)  KESAAAKFERQHMDSGNSPSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=121 (resi) RMSD=1.79 (Å)  KESAAAKFERQHMDSGNSP-SSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRET-gSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSPSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRET-gSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
938	<p>1qwqA (124)</p> <hr/> <p>1y92B (124)</p>	N	98.39	<p>TM-align: aliSize=105 (resi) RMSD=1.78 (Å)  kesaaakferqhmdsgnsp-----SSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=8.53 (Å)  kesaa---AKFERQHMDSG--NSPSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v  ----kesAAKFERQHMDSGNSASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-v</p> <p>BLAST: aliSize=123 (resi) iden=99.19% (123/124) simi=99.19% (123/124)  KESAAAKFERQHMDSGNSPSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=123 (resi) RMSD=1.59 (Å)  KESAAAKFERQHMDSGNSPSSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRET-gSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  KESAAAKFERQHMDSGNSASSSNYCNLMCKRMTQGKCKPVNTFVHESLADVKAVCSQKNVTKCKDGOTNCYOSKSTMRIIDCRET-gSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

939	<p>1qwqA (124)</p> <p>3bcoA (124)</p>	N	92.74	<p>TM-align: aliSize=104 (resi) RMSD=1.88 (Å)  kesaaakferqhmdsgnsp-----SSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTC-KDGQ-TCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmdsgnsaSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQ-TCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=122 (resi) RMSD=9.71 (Å)  k-ESAAAKFEROHMDSGNSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v  -kESAAAKFEROHMDSGNSASSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v</p> <p>BLAST: aliSize=122 (resi) iden=98.39% (122/124) simi=98.39% (122/124)  KESAAAKFEROHMDSGNSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFEROHMDSGNSASSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=121 (resi) RMSD=1.78 (Å)  k-ESAAAKFEROHMDSGNSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTC-KDGQTCNYQSKSTMRI TDCRET-gSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -kESAAAKFEROHMDSGNSASSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRET-gSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
940	<p>1qwqA (124)</p> <p>1y94A (124)</p>	N	95.97	<p>TM-align: aliSize=105 (resi) RMSD=1.87 (Å)  kesaaakferqhmdsgnsp-----SSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  -----kesaaakferqhmdsstsaASSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=119 (resi) RMSD=8.77 (Å)  kesa----AAKFEROHMDSGNSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v  ----kesaAAKFEROHMDSSTSAASSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v</p> <p>BLAST: aliSize=121 (resi) iden=96.77% (120/124) simi=97.58% (121/124)  KESAAAKFEROHMDSGNSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFEROHMDSSTSAASSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=122 (resi) RMSD=1.79 (Å)  KESAAAKFEROHMDSG-nSPSSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRET-gSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV  KESAAAKFEROHMDSST-SAASSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkDGQTCNYQSKSTMRI TDCRET-gSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>
941	<p>lizpA (124)</p> <p>1lbgA (124)</p>	N	80.65	<p>TM-align: aliSize=104 (resi) RMSD=0.85 (Å)  ketaaakferqhmdsstsa-----SSSNYCNLMKSRNLTkDRCKPVNTLVHESLADVAVCSQKNVACKNGQTCNYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEINFYVPVHFDASV  -----kesaaakferqhmdsgnspSSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkNGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=121 (resi) RMSD=9.79 (Å)  k-ETAAAKFEROHMDS-STSAASSNYCNLMKSRNLTkDRCKPVNTLVHESLADVAVCSQKNVACKNGQTCNYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEINFYVPVHFDASV -v  -kESAAAKFEROHMDSgNSPSSS-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkNGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV -v</p> <p>BLAST: aliSize=106 (resi) iden=80.65% (100/124) simi=85.48% (106/124)  KETAAAKFEROHMDSSTSAASSNYCNLMKSRNLTkDRCKPVNTLVHESLADVAVCSQKNVACKNGQTCNYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEINFYVPVHFDASV  KESAAAKFEROHMDSGNSPSSS-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkNGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.89 (Å)  KETAAAKFEROHMDSSTSAASSNYCNLMKSRNLTkDRCKPVNTLVHESLADVAVCSQKNVACKNGQTCNYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHI IVACEINFYVPVHFDASV  KESAAAKFEROHMDSGNSPSSS-SNYCNLMCCRKMTQGKCKPVNTFVHESLADVAVCSQKKVTCkNGQTCNYQSKSTMRI TDCRETGSSKYPNCAYKTTQVEKHI IVACGGKPSVPVHFDASV</p>

942	<p>lizpA (124)</p> <hr/> <p>ly92B (124)</p>	N	80.65	<p>TM-align: aliSize=104 (resi) RMSD=0.77 (Å)  ketaaakferqhmds <b>tsaa</b>-----SSSNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaakferqhmdsgnsasSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=122 (resi) RMSD=9.69 (Å)  k-ETAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDAS-v  -kESAAAKFERQHMD<b>SGNSASS</b>SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=107 (resi) iden=80.65% (100/124) simi=86.29% (107/124)  <b>KE</b>TAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SGNSASS</b>SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.86 (Å)  <b>KE</b>TAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SGNSASS</b>SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
943	<p>lizpA (124)</p> <hr/> <p>3bcoA (124)</p>	N	81.45	<p>TM-align: aliSize=104 (resi) RMSD=0.86 (Å)  ketaaakferqhmd <b>sst</b>tsaa-----SSSNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaakferqhmdsgnsasSSSNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=9.22 (Å)  k-ETAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDAS-v  -kESAAAKFERQHMD<b>SGNSASS</b>SNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=108 (resi) iden=81.45% (101/124) simi=87.10% (108/124)  <b>KE</b>TAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SGNSASS</b>SNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.85 (Å)  <b>KE</b>TAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SGNSASS</b>SNYCNQMMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
944	<p>lizpA (124)</p> <hr/> <p>ly94A (124)</p>	N	83.06	<p>TM-align: aliSize=104 (resi) RMSD=0.98 (Å)  ketaaakferqhmd <b>sst</b>tsaa-----SSSNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  -----kesaakferqhmdssttsaaSSSNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>SARST: aliSize=118 (resi) RMSD=9.26 (Å)  k-ETAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDAS-v  -kESAAAKFERQHMD<b>SSTAASS</b>SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p>BLAST: aliSize=109 (resi) iden=83.06% (103/124) simi=87.90% (109/124)  <b>KE</b>TAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SSTAASS</b>SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p>Proposed: aliSize=124 (resi) RMSD=0.95 (Å)  <b>KE</b>TAAAKFERQHMD<b>SSTAASS</b>SNYCNQMMKSRNLTkDRCKPVNTLVHESLADVQAVCSQKNVACKNGOTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACENFYVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SSTAASS</b>SNYCNLMCCRKMTQGGCKPVNTFVHESLADVKAVCSQKKVTCKDGOTNCYQSKSTMRIIDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>

945	2v1qB (58)	C	31.03	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.22 (Å)  -ERGIYQDFMAESQDELTKSGDKVYLD-DKKSdWwmcqlvdsgksg-----lvpaqfiepv-----  kKYAKSKYDFVARNSSSEL SVMKDDVLELDdRRQW-WK-----vrnasgdsgF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=52 (resi) RMSD=11.54 (Å)  er---GIVQYDFMAESQDELTKSGDKVYLD-DKKSdWwmcqlvdsgksgSCLVFAQFIEP----v  --kkyAKSKYDFVARNSSSEL SVMKDDVLELDdRRQ--WwKVRN-ASGDSGFVFNILDIImrtp-</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=32.76% (19/58) simi=51.72% (30/58)  ergiv-----QYDFMAESQDELTKSGDKVYLD-DKKSdWwmcqlvdsgksgSCLVFAQFIE-----pv  -----kkyaksKYDFVARNSSSEL SVMKDDVLELDdRR--RQWwKVRN-ASGDSGFVFNILDIImrtp--</p> <p><b>Proposed:</b> aliSize=53 (resi) RMSD=1.12 (Å)  -ERGIYQDFMAESQDELTKSGDKVYLD--dkksKDwmcqlvdsgksgSCLVFAQFIEPV---  kKYAKSKYDFVARNSSSEL SVMKDDVLELDdr---RQWwKVRN-ASGDSGFVFNILDIImrtp</p>
	li07A (59)			
946	1sshA (60)	C	27.12	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.37 (Å)  gsSPKIVALYSFAGEESGDL PFRKGDVITLk-KSdSqnDwtgrvngreg-----lfpanyvelv-----  --KKYAKSKYDFVARNSSSEL SVMKDDVLELDdRR-Q--Ww-----kvrnasgdsgF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=52 (resi) RMSD=10.91 (Å)  gssp--KIVALYSFAGEESGDL PFRKGDVITLkKSDSNDWwTGRV-NREGIFPANYVEL----v  ---kkyAKSKYDFVARNSSSEL SVMKDDVLELDdRRQWwKVRN-ASGDSGFVFNILDIImrtp-</p> <p><b>BLAST:</b> aliSize=27 (resi) iden=30.51% (18/59) simi=45.76% (27/59)  gsspk---IVALYSFAGEESGDL PFRKGDVITLkksDSNDWwTGR--VNGREGIFPANYVELV---  -----kkyAKSKYDFVARNSSSEL SVMKDDVLELDdRRQWwKVRN-ASGDSGFVFNILDIImrtp</p> <p><b>Proposed:</b> aliSize=53 (resi) RMSD=1.41 (Å)  gsSPKIVALYSFAGEESGDL PFRKGDVITLk--ksdsqNDWwTGRVNG-REGIFPANYVELV---  --KKYAKSKYDFVARNSSSEL SVMKDDVLELDdr---RQWwKVRN-ASGDSGFVFNILDIImrtp</p>
	li07A (59)			
947	1h3hA (60)	C	30.51	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.64 (Å)  grv-RWARALYDFEALLEEDELGFRSGEVVEVLD-SSNpsWwtgrlhnlkg-----lfpanyvapmmr-----  ---kKYAKSKYDFVARNSSSEL SVMKDDVLELDdRRQWwK-----vrnasgdsgF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=52 (resi) RMSD=11.14 (Å)  grvr--WARALYDFEALLEEDELGFRSGEVVEVLDSSNpsWwtgrlhnlkgNKLLFPANYVAPM---mr  ---kkyAKSKYDFVARNSSSEL SVMKDDVLELDdRR--QWwKVRN-ASGDSGFVFNILDIImrtp--</p> <p><b>BLAST:</b> aliSize=28 (resi) iden=32.20% (19/59) simi=47.46% (28/59)  grv-RWARALYDFEALLEEDELGFRSGEVVEVLDSSNpsWwtgrlhnlkgNKLLFPANYVAPM---  ---kkyAKSKYDFVARNSSSEL SVMKDDVLELDdRR-QWwKVRN-ASGDSGFVFNILDIImrtp</p> <p><b>Proposed:</b> aliSize=55 (resi) RMSD=1.48 (Å)  grv-RWARALYDFEALLEEDELGFRSGEVVEVLD-SSNpsWwtgrlhnlkgNKLLFPANYVAPM---  ---kkyAKSKYDFVARNSSSEL SVMKDDVLELDdRR--QWwKVRN-ASGDSGFVFNILDIImrtp</p>
	li07A (59)			

948	2semB (59)	C	22.03	<p><b>TM-align:</b> aliSize=37 (resi) RMSD=2.35 (Å)  TIFVQALFDENPQESGELAFKRGDVIITLIN-KDDPNWEGQLNRRGIFPSNYVCPYNSN-----  KYYAKSKYDFVARNSSSELVSMKDDVLEILDdRRQWVK-----vrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=52 (resi) RMSD=11.49 (Å)  tk--FVQALFDENPQESGELAFKRGDVIITLINKDDPNWEGQLN--NRRGIFPSNYVCPY---nsn  --kkYAKSKYDFVARNSSSELVSMKDDVLEILDdRR--QWVKVRNasGDSGFVNNILDIMRtp---</p> <p><b>BLAST:</b> aliSize=28 (resi) iden=23.73% (14/59) simi=47.46% (28/59)  t--FVQALFDENPQESGELAFKRGDVIITLINKDDPNWEGQLNRRGIFPSN-----yvcpynsn  -kYYAKSKYDFVARNSSSELVSMKDDVLEILD-DRRQWVKVRNASGDSGFVNNildimrtp-----</p> <p><b>Proposed:</b> aliSize=56 (resi) RMSD=1.35 (Å)  TIFVQALFDENPQESGELAFKRGDVIITLIN--kddPNWEGQLN--NRRGIFPSNYVCPYNSN  KYYAKSKYDFVARNSSSELVSMKDDVLEILDdrr--RQWVKVRNasGDSGFVNNILDIMRTP</p>
949	1jo8A (58)	C	22.41	<p><b>TM-align:</b> aliSize=35 (resi) RMSD=2.41 (Å)  -PWATAEYDYDAEDNELTFVENKIInIE--FVDDWwIgelekdgskg-----lfpsnyvslgn-----  kYYAKSKYDFVARNSSSELVSMKDDVLEILDdRRQWVK-----vrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=49 (resi) RMSD=11.19 (Å)  p--WATAEYDYDAEDNELTFVENKIInIEFVDDWwLGELEKDGSKGLFPSNYVSL----gn  --kkYAKSKYDFVARNSSSELVSMKDDVLEILDdRRQ-----WVKVRNasGDSGFVNNILDIMRtp--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=27.59% (16/58) simi=51.72% (30/58)  p--WATAEYDYDAEDNELTFVENKIInIEFVDD--DWLGELEKDGSKGLFPSNYVSL----gn  --kkYAKSKYDFVARNSSSELVSMKDDV--LEILDdrrQWVKVRNasGDSGFVNNILDIMRtp--</p> <p><b>Proposed:</b> aliSize=54 (resi) RMSD=1.41 (Å)  -PWATAEYDYDAEDNELTFVENKIInIE--FVDDWwLGELEKDGSKGLFPSNYVSLGN--  kYYAKSKYDFVARNSSSELVSMKDDVLEILDdrr--RQWVKVRNasGDSGFVNNILDIMRTP</p>
950	4hckA (61)	N	27.12	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.58 (Å)  seDIIVVALYDYEAIHHEDLSFQGGQMVVIE--ESGEWwKarslatrkeg-----Yipsnyvarvds-----  --KYYAKSKYDFVARNSSSELVSMKDDVLEILDdRRQWVK-----vrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=54 (resi) RMSD=12.28 (Å)  sedi--IIVALYDYEAIHHEDLSFQGGQMVVIEESGEWwKARSlatrkegyiPSNYVARV---ds  ----kkYAKSKYDFVARNSSSELVSMKDDVLEILDdRRQWVKVRNasGDSGFVNNILDIMRtp--</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=27.12% (16/59) simi=49.15% (29/59)  sediivval-----YDYEAIHHEDLSFQGGQMVVIEESGEWwKARSlatrkegyiPSN-----yvarvds  -----kkyakskYDFVARNSSSELVSMKDDVLEILDdRRQWVKVRNasGDSGFVNNildimrtp-----</p> <p><b>Proposed:</b> aliSize=57 (resi) RMSD=1.52 (Å)  seDIIVVALYDYEAIHHEDLSFQGGQMVVIE--ESGEWwKARSlatrkegyiPSNYVARVDS--  --KYYAKSKYDFVARNSSSELVSMKDDVLEILDdRR--QWVKVRNasGDSGFVNNILDIMRTP</p>

951	<p>1m7A (112)</p> <p>1r4cA (110)</p>	N	52.73	<p><b>TM-align:</b> aliSize=64 (resi) RMSD=1.20 (Å)  aggihatdlnksvqraldfaiseynkvinkdeyysrplqvmaayqqi-----VGGVNYFNFKFGRTTCTKSQPNDNCPFDOPKLEEEFCFSQINEVPWEDKISILNYKIRKV  -----ggpmdasveeegvrraldfavgeynkasndmyhsralqvvrarkqiVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQDA</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=19.10 (Å)  agg--IHATDLNDKSVQRALDFAISEYNKVIINKDEYSRPLOVMAAYQQIVGGVNYFNFKFGRTTCTKSQPNDNCPFDOPKLEEEFCFSQINEVPWEDKISILNYKIRKV  ---ggPMDASVEEEGVRRALDFAVGEYNKA-SNDMHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQDA</p> <p><b>BLAST:</b> aliSize=80 (resi) iden=55.45% (61/110) simi=72.73% (80/110)  aGCIHATDLNDKSVQRALDFAISEYNKVIINKDEYSRPLOVMAAYQQIVGGVNYFNFKFGRTTCTKSQPNDNCPFDOPKLEEEFCFSQINEVPWEDKISILNYKIRKV--kv  -GGPMDASVEEEGVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQda--</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=0.92 (Å)  aGCIHATDLNDKSVQRALDFAISEYNKVIINKDEYSRPLOVMAAYQQIVGGVNYFNFKFGRTTCTKSQPNDNCPFDOPKLEEEFCFSQINEVPWEDKISILNYKIRKV  -GGPMDASVEEEGVRRALDFAVGEYNKA-SNDMHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQDA</p>
952	<p>1yvbI (111)</p> <p>1r4cA (110)</p>	C	44.55	<p><b>TM-align:</b> aliSize=62 (resi) RMSD=1.82 (Å)  rllgapvpvdendeglqralqfamaeynrasndkyssrvrvvisakrql-----VSGIKYILQVEIGRTTCTKSSGDLQSCFEHDEPEMAKYTTCTVWYSIPWLNQIKLESKCQ--  -----ggpmdasveeegvrraldfavgeynkasndmyhsralqvvrarkqiVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQDA</p> <p><b>SARST:</b> aliSize=101 (resi) RMSD=20.09 (Å)  rllga--FVPVDENDEGLQRALQFAMAENRASNDKISSRVVRISSAKROLVSGIKYILQVEIGRTTCTP---KSSGDLQSCFEHDEPEMAK-YTTCTVWYSIPWLNQIKLESKCQ---q  ----ggPMDASVEEEGVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQda-</p> <p><b>BLAST:</b> aliSize=76 (resi) iden=44.55% (49/110) simi=69.09% (76/110)  rllGAFPVDENDEGLQRALQFAMAENRASNDKISSRVVRISSAKROLVSGIKYILQVEIGRTTCTPSSGDLQSCFEHDEPEMAKYTTCTVWYSIPWLNQIKLESKCQ--  ---GGPMDASVEEEGVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQda</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=1.24 (Å)  rllGAFPVDENDEGLQRALQFAMAENRASNDKISSRVVRISSAKROLVSGIKYILQVEIGRTTCTPSSGDLQSCFEHDEPEMAKYTTCTVWYSIPWLNQIKLESKCQ--  ---GGPMDASVEEEGVRRALDFAVGEYNKASNDMHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFDOPHLKRKAFCSFOIYAVPWQGTMTLSKSTQda</p>
953	<p>1yupE (154)</p> <p>1g85A (159)</p>	C	16.23	<p><b>TM-align:</b> aliSize=120 (resi) RMSD=2.79 (Å)  -----D-LDVQKVAQTWYSLAMAASDI SLLDqSAPLRVYVEELKPT-PTPGDLEILLQKWENKCAQKKIIEKTEIPAVFKIDALNENKVLVLDTDYKKYLLFCMENSA-EPEQSLACQCLVRTPEVDdeamekfdkalkalpmhirlsfntqle-----EQCRV  aqeeeAeQNLSELSPPVRTVYIGSTNPEKIQE-NGFFRTYFRELVFDDekITVDFYFVSKRDGKWKNVHVKATKQDDG-TYVAYEGQVFKIVSLSR-THLVAHNIIVDKHGQTTTELTGLFVKLN-----vededlekwkltedkgiddknvvnflenenHPHPE</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=13.52 (Å)  d-----LDVQKVAQTWYSLAMAASDI SLLDqSAPLRVYVEELKPT-PTPGDLEILLQKWENKCAQKKIIEKTEIPAVFKIDALNENKVLVLDTDYKKYLLFCMENSA-EPEQSL--ACQCLVRTPEVDDEAMEKFDKALKALPM---HTRL-----sfntqleeqcrv  -aqeeaeQNLSELSPPVRTVYIGSTNPEKIQE-NGFFRTYFRELVFDDekITVDFYFVSKRDGKWKNVHVKATKQDDG-DGTVAYEGQVFKIVSLSR-THLVAHNIIVDKHGQTTTELTGLFVKLNVEDEDLEKFWLLETEDKGI dkkNVVnflenenhphpe-----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=16.23% (25/154) simi=35.71% (55/154)  d1-----DVQKVAQTWYSLAMAASDI SLLDqSAPLRVYVEELKPT-PTPGDLEILLQKWENKCAQKKIIEKTEIPAVFKIDALNENKVLVLDTDYKKYLLFCMENSAEPEQSLACQCLVRTPEVDDEAMEKFDK-----alkalpmhirlsfntqleeqcrv  --aqeeaeQNLSELSPPVRTVYIGSTNPEKIQE-NGFFRTYFRELVFDDekITVDFYFVSKRDGKWKNVHVKATKQDDG-DGTVAYEGQVFKIVSLSR-THLVAHNIIVDKHGQTTTELTGLFVKLNVEDEDLEKFWLLETEDKGI dkkNVVnflenenhphpe-----</p> <p><b>Proposed:</b> aliSize=140 (resi) RMSD=1.94 (Å)  -----D-LDVQKVAQTWYSLAMAASDI SLLDqSAPLRVYVEELKPT-PTPGDLEILLQKWENKCAQKKIIEKTEIPAVFKIDALNENKVLVLDTDYKKYLLFCMENSAEPEQSLACQCLVRTPEVDDEAMEKFDKALKALPMH--IRLSNptQ---leeqCR---v  aqeeeAeQNLSELSPPVRTVYIGSTNPEKIQE-NGFFRTYFRELVFDDekITVDFYFVSKRDGKWKNVHVKATKQDDG-TYVAYEGQVFKIVSLSR-THLVAHNIIVDKHGQTTTELTGLFVKLNVEDEDLEKFWLLETEDKGI dkkNVVnflenenhphpe-----</p>

954	<p><b>1yupE</b> (154)</p> <hr/> <p><b>1pboB</b> (151)</p>	C	16.56	<p><b>TM-align:</b> aliSize=118 (resi) RMSD=2.77 (Å)  d1DVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVddeamekfdkalkalpmhirlsfnptqle-----EQCRV  --NLSELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKODDG-TYVAIYEGQVFKIVSLS-RTHLVAHNI VDKHGQKTELTELFVKNL-----vededlekwkltedkgidkknvvnflenedHPHPE</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=13.63 (Å)  d1dv--OKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSL--ACQCLVRTPEVDDEAMEKFDKALKALPM---HTRL-----sfnptqleeqcrv  ---n1SELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKOD-DGTYVAIYEGQVFKIVSL-SRTHLVAHNI--VDKHGQKtELTGIFVKNLVEDEDLEKFWLTDKGI dkkNVNflenedhphe-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=16.56% (25/151) simi=35.76% (54/151)  d1DVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVDDEAMEKFDK-----alkalpmhirlsfnptqleeqcrv  --NLSELSCPVRTVYIGSTNPEKIQE-ENGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKOD-DGTYVAIYEGQVFKIVSLS-RTHLVAHNI VDKHGQKTELTELFVKNLVEDEDLEKFWLtedkgidkknvvnflenedhphe-----</p> <p><b>Proposed:</b> aliSize=138 (resi) RMSD=1.89 (Å)  d1DVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSa----EpeQSLACQCLVRTPEVDDEAMEKFDKALKALPMH--IRLSNptQ---leeqCR---v  --NLSELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKODDG-TYVAIYEGQVFKIVSLSR-THLVAHNI--VdkhgQ--KTELTELFVKNLVEDEDLEKFWLTDKGI dkkNVNflened---HPhpe-</p>
955	<p><b>1yupE</b> (154)</p> <hr/> <p><b>1gt3A</b> (159)</p>	C	16.23	<p><b>TM-align:</b> aliSize=120 (resi) RMSD=2.78 (Å)  -----D-LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVddeamekfdkalkalpmhirlsfnptqle-----EQCRV  aqeeAeQNLSELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKODDG-TYVAIYEGQVFKIVSLSR-THLVAHNI VDKHGQKTELTELFVKNL-----vededlekwkltedkgidkknvvnflenenHPHPE</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=13.66 (Å)  d-----LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSL--ACQCLVRTPEVDDEAMEKFDKALKALPM---HTRL-----sfnptqleeqcrv  -aqeeAeQNLSELSCPVRTVYIGSTNPEKIQE---QENGpfrTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKOD-DGTYVAIYEGQVFKIVSL-SRTHLVAHNI--VDKHGQKtELTELFVKNLVEDEDLEKFWLTDKGI dkkNVNflenenhphe-----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=16.23% (25/154) simi=35.71% (55/154)  d1-----LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVDDEAMEKFDK-----alkalpmhirlsfnptqleeqcrv  --aqeeAeQNLSELSCPVRTVYIGSTNPEKIQE-ENGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKOD-DGTYVAIYEGQVFKIVSLS-RTHLVAHNI VDKHGQKTELTELFVKNLVEDEDLEKFWLtedkgidkknvvnflenenhphe-----</p> <p><b>Proposed:</b> aliSize=140 (resi) RMSD=1.94 (Å)  -----D-LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSa----EpeQSLACQCLVRTPEVDDEAMEKFDKALKALPMH--IRLSNptQ---leeqCR---v  aqeeAeQNLSELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKODDG-TYVAIYEGQVFKIVSLSR-THLVAHNI--VdkhgQ--TTELTELFVKNLVEDEDLEKFWLTDKGI dkkNVNflened---HPhpe-</p>
956	<p><b>1yupE</b> (154)</p> <hr/> <p><b>1gt1A</b> (158)</p>	C	16.23	<p><b>TM-align:</b> aliSize=120 (resi) RMSD=2.80 (Å)  -----D-LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVddeamekfdkalkalpmhirlsfnptqle-----EQCRV  qeeAeQNLSELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKODDG-TYVAIYEGQVFKIVSLSR-THLVAHNI VDKHGQKTELTELFVKNL-----vededlekwkltedkgidkknvvnflenenHPHPE</p> <p><b>SARST:</b> aliSize=132 (resi) RMSD=14.12 (Å)  d-----LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVD--DEAMEKFDKALKALPM---HTRL-----sfnptqleeqcrv  -qeeAeQNLSELSCPVRTVYIGSTNPEKIQE---QENGpfrTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKOD-DGTYVAIYEGQVFKIVSL-SRTHLVAHNI--VDKHGQKTELTELFVKNLVEDEDLEKFWLTDKGI dkkNVNflenenhphe-----</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=16.23% (25/154) simi=35.71% (55/154)  d1-----LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSaEPEQSLACQCLVRTPEVDDEAMEKFDK-----alkalpmhirlsfnptqleeqcrv  --qeeAeQNLSELSCPVRTVYIGSTNPEKIQE-ENGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKOD-DGTYVAIYEGQVFKIVSLS-RTHLVAHNI VDKHGQKTELTELFVKNLVEDEDLEKFWLtedkgidkknvvnflenenhphe-----</p> <p><b>Proposed:</b> aliSize=141 (resi) RMSD=2.03 (Å)  -----D-LDVQKVACTIYSLAMAASDI SLDDaQSAPLRVYVEELKPT-PGDDLEILLQKWENKCAQKKIIEKTEIPaVFKI DALNEKVLVLDTDyKkYLFCMENSa----EpeQSLACQCLVRTPEVDDEAMEKFDKALKALPMH--IRLSNptQ---leeqCRV----  qeeAeQNLSELSCPVRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKODDG-TYVAIYEGQVFKIVSLSR-THLVAHNI--VdkhgQ--TTELTELFVKNLVEDEDLEKFWLTDKGI dkkNVNflened---NHphpe-</p>

957	1qwdA (167)	C	8.18	<p>TM-align: aliSize=107 (resi) RMSD=3.64 (Å) hlestsl--Ykksstpprgvtvv--NFDKRYLITWYEIARFD--H-RFERGL---EKVTATYSLRDDG-GLNVINKGyNPdRgMWOOSEGKAYFTGAptRaALKVSFFgpfYGGYNVIA DreYRHALVCGPD-----RDYLWILSRtptIsdevkaemlavatregfdvskfiwv----- -----aqE-----eeAEQNLSELSIPRTVYIGStnPeKIQENgpfrTYFRELVDDEKgtVDFYFSV-KRIG-KKNVHVKA TKQDD--G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKL-----nvededlekw</p> <p>-----Opg- wkltedkgidkknvvnflenhpHP--e</p> <p>SARST: aliSize=140 (resi) RMSD=14.48 (Å) hlestslYkksstppr--GVTVnnFDKRYLITWYEIARFD--DHRFERGLEKVA--TYSLR--DGLNVINKGYNpdRgMWOOSEGKAYFTgAPTRAALKVSFFgpfYGGYNVIA DREYRHALVCGPDRD---YIWIISRTPTISDEVKOEMLAVATREFFVSKFIWV---OOE---g -----aqEEEAE--QNLSELSIPRTVYIGStnPEKIQENGPFRYfrELVDDEKTVDFYFSVSR--DKKNVHVKA TK--QDDGTIVADYE---GQNVFKIVSLS--THLVAHNINVDKHgqtELTEFVKLNVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-</p> <p>BLAST: aliSize=24 (resi) iden=9.43% (15/159) simi=15.09% (24/159) hlestslYkksstpprgvtvnnfdakrylgtwyeiarfdhrferglekvtatyslrddgglvinkgynpdrgmqwqsegkayftgapt raal-----VSFFGPFYGGYNVIALDREYRHALVCGPDRDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----aqeeaeqnlseisgpwrtvyigstnpeKIQENGPFRTYFRELVDDEKgtVDFYFSVSR--DKKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>-----wvqqpg slsrthlvahninvdkhgqteltglfvklnvededlekwkltedkgidkknvvnflenhphe-----</p> <p>Proposed: aliSize=123 (resi) RMSD=2.34 (Å) hlestslYkksstpprgvtvv--NFDKRYLITWYEIARFD--D-H---RFEgLeKVTATYS-L--rdDGLNVINKGyN--pdRgMWOOSEGKAYFTG-aptRaALKVSFFgpfYGGYNVIA DreYRHALVCGP-----DrDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----aqeeAEQNLSELSIPRTVYIGStnPeKIQENGPFR--T--YFRELVDde--KTVDFYFSV-Krd--G-KKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>Q-----qpg Lenenhphe---</p>
	1g85A (159)			<p>-----wvqqpg slsrthlvahninvdkhgqteltglfvklnvededlekwkltedkgidkknvvnflenhphe-----</p> <p>Proposed: aliSize=123 (resi) RMSD=2.34 (Å) hlestslYkksstpprgvtvv--NFDKRYLITWYEIARFD--D-H---RFEgLeKVTATYS-L--rdDGLNVINKGyN--pdRgMWOOSEGKAYFTG-aptRaALKVSFFgpfYGGYNVIA DreYRHALVCGP-----DrDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----aqeeAEQNLSELSIPRTVYIGStnPeKIQENGPFR--T--YFRELVDde--KTVDFYFSV-Krd--G-KKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>Q-----qpg Lenenhphe---</p>
958	1qwdA (167)	C	8.18	<p>TM-align: aliSize=107 (resi) RMSD=3.63 (Å) hlestsl--Ykksstpprgvtvv--NFDKRYLITWYEIARFD--H-RFERGL---EKVTATYSLRDDG-GLNVINKGyNPdRgMWOOSEGKAYFTGAptRaALKVSFFgpfYGGYNVIA DreYRHALVCGPD-----RDYLWILSRtptIsdevkaemlavatregfdvskfiwv----- -----aqE-----eeAEQNLSELSIPRTVYIGStnPeKIQENgpfrTYFRELVDDEKgtVDFYFSV-KRIG-KKNVHVKA TKQDD--G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKL-----nvededlekw</p> <p>-----Opg- wkltedkgidkknvvnflenhpHP--e</p> <p>SARST: aliSize=140 (resi) RMSD=14.31 (Å) hlestslYkksstppr--GVTVnnFDKRYLITWYEIARFD--DHRFERGLEKVA--TYSLR--DGLNVINKGYNpdRgMWOOSEGKAYFTgAPTRAALKVSFFgpfYGGYNVIA DREYRHALVCGPDRD---YIWIISRTPTISDEVKOEMLAVATREFFVSKFIWV---OOE---g -----aqEEEAE--QNLSELSIPRTVYIGStnPEKIQENGPFRYfrELVDDEKTVDFYFSVSR--DKKNVHVKA TK--QDDGTIVADYE---GQNVFKIVSLS--THLVAHNINVDKHgqtELTEFVKLNVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-</p> <p>BLAST: aliSize=30 (resi) iden=9.43% (15/159) simi=18.87% (30/159) hl-----STSLYKKSSTppGVTVnnFDKRYLITWYEIARFDHRFERGLEKVTATYSLRDDGGL---NIN-----kgynpdrgmqwqsegkayftgapt ra --aqeeaeqnlseisgpwrtvyigstnpekiqengpfrtyfrELVDDEKgtVDFYFSVrdgkwnvhvkatkqddgtvadyGQNVFKIVSLS--RTHLVAHNINVDKH--QTTTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-----</p> <p>alkvsffgpfyggynvialdreyrhalvcgpdrylwlisrtpptIsdevkqemlavatregfdvskfiwvqqpg</p> <p>Proposed: aliSize=123 (resi) RMSD=2.33 (Å) hlestslYkksstpprgvtvv--NFDKRYLITWYEIARFD--D-H---RFEgLeKVTATYS-L--rdDGLNVINKGyN--pdRgMWOOSEGKAYFTG-aptRaALKVSFFgpfYGGYNVIA DreYRHALVCGP-----DrDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----aqeeAEQNLSELSIPRTVYIGStnPeKIQENGPFR--T--YFRELVDde--KTVDFYFSV-Krd--G-KKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>Q-----qpg Lenenhphe---</p>
	1gt3A (159)			<p>hl-----STSLYKKSSTppGVTVnnFDKRYLITWYEIARFDHRFERGLEKVTATYSLRDDGGL---NIN-----kgynpdrgmqwqsegkayftgapt ra --aqeeaeqnlseisgpwrtvyigstnpekiqengpfrtyfrELVDDEKgtVDFYFSVrdgkwnvhvkatkqddgtvadyGQNVFKIVSLS--RTHLVAHNINVDKH--QTTTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-----</p> <p>alkvsffgpfyggynvialdreyrhalvcgpdrylwlisrtpptIsdevkqemlavatregfdvskfiwvqqpg</p> <p>Proposed: aliSize=123 (resi) RMSD=2.33 (Å) hlestslYkksstpprgvtvv--NFDKRYLITWYEIARFD--D-H---RFEgLeKVTATYS-L--rdDGLNVINKGyN--pdRgMWOOSEGKAYFTG-aptRaALKVSFFgpfYGGYNVIA DreYRHALVCGP-----DrDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----aqeeAEQNLSELSIPRTVYIGStnPeKIQENGPFR--T--YFRELVDde--KTVDFYFSV-Krd--G-KKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>Q-----qpg Lenenhphe---</p>
959	1qwdA (167)	C	8.23	<p>TM-align: aliSize=107 (resi) RMSD=3.64 (Å) hlestsl--Ykksstpprgvtvv--NFDKRYLITWYEIARFD--H-RFERGL---EKVTATYSLRDDG-GLNVINKGyNPdRgMWOOSEGKAYFTGAptRaALKVSFFgpfYGGYNVIA DreYRHALVCGPD-----RDYLWILSRtptIsdevkaemlavatregfdvskfiwv----- -----qE-----eeAEQNLSELSIPRTVYIGStnPeKIQENgpfrTYFRELVDDEKgtVDFYFSV-KRIG-KKNVHVKA TKQDD--G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKL-----nvededlekw</p> <p>-----Opg- kltedkgidkknvvnflenhpHP--e</p> <p>SARST: aliSize=133 (resi) RMSD=16.39 (Å) hlestslYkksstppr--GVTVnnFDKRYLITWYEIARFD--DHRFERGLEKVA--TYSLR--DGLNVINKGYNpdRgMWOOSEGKAYFT-----GAPTRAALKVSFFGPFYGGYNVIALDREYRHALVCGPDRDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV-----vqqpg -----qEEEAE--QNLSELSIPRTVYIGStnPEKIQENGPFRYfrELVDDEKTVDFYFSVSR--DKKNVHVKA TKQDDgtvadyEGQNVFKIVSLSRTHLVAHNINVDKHGQTTELTE---LFVKL---NVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-----</p> <p>BLAST: aliSize=30 (resi) iden=9.49% (15/158) simi=18.99% (30/158) hl-----STSLYKKSSTppGVTVnnFDKRYLITWYEIARFDHRFERGLEKVTATYSLRDDGGL---NIN-----kgynpdrgmqwqsegkayftgapt ra --qeeaeqnlseisgpwrtvyigstnpekiqengpfrtyfrELVDDEKgtVDFYFSVrdgkwnvhvkatkqddgtvadyGQNVFKIVSLS--RTHLVAHNINVDKH--QTTTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-----</p> <p>lkvsffgpfyggynvialdreyrhalvcgpdrylwlisrtpptIsdevkqemlavatregfdvskfiwvqqpg</p> <p>Proposed: aliSize=124 (resi) RMSD=2.40 (Å) hlestslYkksstpprgvtvv--NFDKRYLITWYEIARFD--D-H---RFEgLeKVTATYS-L--rdDGLNVINKGyN--pdRgMWOOSEGKAYFTG-aptRaALKVSFFgpfYGGYNVIA DreYRHALVCGP-----DrDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----qeeAEQNLSELSIPRTVYIGStnPeKIQENGPFR--T--YFRELVDde--KTVDFYFSV-Krd--G-KKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>Q-----pg Lenenhphe---</p>
	1gt1A (158)			<p>hl-----STSLYKKSSTppGVTVnnFDKRYLITWYEIARFDHRFERGLEKVTATYSLRDDGGL---NIN-----kgynpdrgmqwqsegkayftgapt ra --qeeaeqnlseisgpwrtvyigstnpekiqengpfrtyfrELVDDEKgtVDFYFSVrdgkwnvhvkatkqddgtvadyGQNVFKIVSLS--RTHLVAHNINVDKH--QTTTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNFlenenhphe-----</p> <p>lkvsffgpfyggynvialdreyrhalvcgpdrylwlisrtpptIsdevkqemlavatregfdvskfiwvqqpg</p> <p>Proposed: aliSize=124 (resi) RMSD=2.40 (Å) hlestslYkksstpprgvtvv--NFDKRYLITWYEIARFD--D-H---RFEgLeKVTATYS-L--rdDGLNVINKGyN--pdRgMWOOSEGKAYFTG-aptRaALKVSFFgpfYGGYNVIA DreYRHALVCGP-----DrDYLWILSRtptIsDEVKOEMLAVATREFFVSKFIWV -----qeeAEQNLSELSIPRTVYIGStnPeKIQENGPFR--T--YFRELVDde--KTVDFYFSV-Krd--G-KKNVHVKA TKQDD---G-TYVADYE--GQNVFKIVSLS--RTLVAHNINvdkhgqtTELTLFVKLNVEDDLEKFWKLTEDKGIKKNVNF</p> <p>Q-----pg Lenenhphe---</p>



960	<p>2q39B (151)</p> <p>1pboB (151)</p>	C	15.89	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=2.37 (Å)  qtmkg1DIQKVAQTWYSLAMAASDI SLLD AqSAPLRVYVEELKPT-PECDLEILLQKWENDECAQKKI IAEKTKIPaVFKI DALNEKVLVLDTDyKKYLLFCMESA-EPEQSLVCQCLVRTPEvddealekfdkalkalpmhirlsfnp-----TQ-  -----NLSELSGPPWRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKQDDG-TYVAIYEGONVFKIVSLS-RTHLVAHNI VDKHGQKTEL TGLFVKNL-----vededlekfwkltedgidkknvvnflenedhPhPe</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=13.53 (Å)  qtmkgldi--QKVAQTWYSLAMAASDI SLLD AqSAPLRVYVEELKPT-PECDLEILLQKWENDECAQKKI IAEKTKIPaVFKI DALNEKVLVLDTDyKKYLLFCMESA-EPEQSLVCQCLVRTPEVDDEALEKFDKALKALPM--HTRL-----sfnptq  -----nlSELSGPPWRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKQDDG-DGTYVAIYEGONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFlenedhphpe-----</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=16.56% (25/151) simi=35.10% (53/151)  qtmkg1DIQKVAQTWYSLAMAASDI SLLD AqSAPLRVYVEELKPT-PECDLEILLQKWENDECAQKKI IAEKTKIPaVFKI DALNEKVLVLDTDyKKYLLFCMESA-EPEQSLVCQCLVRTPEVDDEALEKFDKALKALPMH--IRLSFNPT--Q----  -----NLSELSGPPWRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKQDDG-DGTYVAIYEGONVFKIVSLS-RTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFlenedhphpe-----</p> <p><b>Proposed:</b> aliSize=139 (resi) RMSD=1.99 (Å)  qtmkg1DIQKVAQTWYSLAMAASDI SLLD AqSAPLRVYVEELKPT-PECDLEILLQKWENDECAQKKI IAEKTKIPaVFKI DALNEKVLVLDTDyKKYLLFCMESA-EPEQSLVCQCLVRTPEVDDEALEKFDKALKALPMH--IRLSFNPT--Q----  -----NLSELSGPPWRTVYIGSTNPEKIQE-NGPFRTYFREL VFDdEKITVDFYFSVKRDGKWKNVHVKATKQDDG-TYVAIYEGONVFKIVSLS-RTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFlenedhphpe</p>
961	<p>1bj7A (150)</p> <p>1g85A (159)</p>	C	26.67	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.11 (Å)  -----IDPSKIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-GERI TKMTEGLAKGtsftpeeleyqqlnsergvpnienienlikt-----DNCpp-  aqeeaeqnlSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNL-----nvededlekfwkltedgidkknvvnflenehPHPe--e</p> <p><b>SARST:</b> aliSize=137 (resi) RMSD=13.33 (Å)  idps-----KIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-DGERITKMTEGLAKGtsftPEELEYQQLNSERGVPNENIENLI-----ktdncpp  ----aqeeaeqnlSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFlenedhphpe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=30.67% (46/150) simi=54.00% (81/150)  idp-----SKIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-GERI TKMTEGLAKGtsftPEELEYQQLNSERGVPNENIENLIKTDNCP---p  ----aqeeaeqnlSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFLENEDHPHe-</p> <p><b>Proposed:</b> aliSize=147 (resi) RMSD=1.80 (Å)  i-----DPKIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-GERI TKMTEGLAKGtsftPEELEYQQLNSERGVPNENIENLIKT--DNCP--p  -aqeeaeqnlSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFLENEDHPHe-</p>
962	<p>1bj7A (150)</p> <p>1pboB (151)</p>	C	26.67	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.21 (Å)  iDPSKIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-GERI TKMTEGLAKGtsftpeeleyqqlnsergvpnienienlikt-----TDNCpp-  -NLSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNL-----nvededlekfwkltedgidkknvvnflenedhPHPe--</p> <p><b>SARST:</b> aliSize=134 (resi) RMSD=13.45 (Å)  idps---KIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-DGERITKMTEGLAKGtsftPEELEYQQLNSERGVPNENIENLI-----ktdncpp  ----nlsELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFlenedhphpe-----</p> <p><b>BLAST:</b> aliSize=83 (resi) iden=30.67% (46/150) simi=55.33% (83/150)  idp--SKIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD--GERI TKMTEGLAKGtsftPEELEYQQLNSERGVPNENIENLIKTDNCP---p  ----nlSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFLENEDHPHe-</p> <p><b>Proposed:</b> aliSize=147 (resi) RMSD=1.81 (Å)  iDPSKIPQEWRI IYAAADKDKIVGGPLRNYYRRIE CINDCESLSITTYLKDQCTCLL TEVAKRQEGYVYVLEFYITNTLEVIHVS ENMLV TYVENYD-GERI TKMTEGLAKGtsftPEELEYQQLNSERGVPNENIENLIKT--DNCP--p  -NLSELSGPPWRTVYIGSTNPEKIQENGPFRITFR--ELVFDDEKGTVDYFYSVKRDGKWKNVHVKATKQDDGTYADYEQONVFKIVSLSRTHLVAHNI VDKHGQKTEL TGLFVKNLVEDEDLEKFWKLTEDKIDKKNVNFLENEDHPHe-</p>

963	<p><b>1bj7A</b> (150)</p> <p><b>1gt3A</b> (159)</p>	C	27.33	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.10 (Å)  -----IDPSKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienlikt-----DNCpp-  aqeeaeqNLSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVKL-----nvededlekfwkltedkgidkknvvnflenenhPHP--e</p> <p><b>SARST:</b> aliSize=140 (resi) RMSD=13.19 (Å)  i-----DPKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienlikt-----ktdnpp  -aqeeaeqNLSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVKL-----VEDLEKFWKLTEDKIDKKNVVNFLenenhphe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=30.67% (46/150) simi=54.00% (81/150)  idp-----SKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienliktDNCP---p  ---aqeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenHPhe-</p> <p><b>Proposed:</b> aliSize=147 (resi) RMSD=1.79 (Å)  i-----DPKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienlikt-----DNCp-p  -aqeeaeqNLSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenHPHe-</p>
964	<p><b>1bj7A</b> (150)</p> <p><b>1gt1A</b> (158)</p>	C	27.33	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.12 (Å)  -----IDPSKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienlikt-----DNCpp-  qeeaeqNLSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVKL-----nvededlekfwkltedkgidkknvvnflenenhPHP--e</p> <p><b>SARST:</b> aliSize=135 (resi) RMSD=13.39 (Å)  idps-----KIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienlikt-----ktdnpp  ---qeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDdeKG--TVDFYFSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenhphe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=30.67% (46/150) simi=54.00% (81/150)  idp-----SKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienliktDNCP---p  ---qeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenHPhe-</p> <p><b>Proposed:</b> aliSize=147 (resi) RMSD=1.80 (Å)  i-----DPKIPTEWRIIYAAADNKDKIVEGGPLRNYYRRIECINDCESLSTITFYLDQCTCLL TEVAKRQEGYVYVLEFYGTNLEVIHVSENMLVTVYVNYD-GERITKMTGLAKGtsftpeeleyqqInsergvnpnenienlikt-----DNCp-p  -qeeaeqNLSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenHPHe-</p>
965	<p><b>1dzkA</b> (148)</p> <p><b>1g85A</b> (159)</p>	C	42.57	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.63 (Å)  -----F-ELSKNIIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYLNFSKENGICEEFSLIGTKQEGNTYDVAAGNKKVVSYASEIATIIISNINVDEEDDKIIMTGLLKGtdiedqdlekfkvtrengipeenivniier-----DDCPa  aqeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVKL-----nvededlekfwkltedkgidkknvvnflenenhHPHe-</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=14.09 (Å)  fe-----LSCKNIIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYLNFSKENGICEEFSLIGTKQEGN-----TVDVNAAGNKKVVSYASEIATIIISNINVDEEDDKIIMTGLLKGtdiedqdlekfkvtrengipeenivniier-----erddcpa  --aqeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVKL-NVEDLEKFWKLTEDKIDKKNVVNFLenenhphe-----</p> <p><b>BLAST:</b> aliSize=91 (resi) iden=42.57% (63/148) simi=61.49% (91/148)  f-----ELSKNIIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYLNFSKENGICEEFSLIGTKQEGNTYDVAAGNKKVVSYASEIATIIISNINVDEEDDKIIMTGLLKGtdiedqdlekfkvtrengipeenivniierDDCP---a  -aqeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenHPhe-</p> <p><b>Proposed:</b> aliSize=146 (resi) RMSD=1.41 (Å)  -----F-ELSKNIIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYLNFSKENGICEEFSLIGTKQEGNTYDVAAGNKKVVSYASEIATIIISNINVDEEDDKIIMTGLLKGtdiedqdlekfkvtrengipeenivniier--DDCP-a  aqeeaeqnlSELSCPWRITVYIGSTNPEKIQENGFRTYFREL VFDDEKGTVDYFYSVVRDCKWKNVHVKATKODDGTIVADYEQVFKIVSLSRTHVAHNIIVdKHGQTTELTLFVK-LNVEDLEKFWKLTEDKIDKKNVVNFLenenHPHe-</p>

966	<p>1dzkA (148)</p> <p>1pboB (151)</p>	C	43.24	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.67 (Å)  - F-ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDiedqdlekfkevtrengipeenivniier-----DDCpa  nLsELSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVKL-----nvededlekfwkltedkgidkknvvnflenedhpHE--</p> <p><b>SARST:</b> aliSize=138 (resi) RMSD=13.43 (Å)  fe-----LSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIE-----erddcpa  --nlseLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVKL-KLNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE-----</p> <p><b>BLAST:</b> aliSize=92 (resi) iden=43.92% (65/148) simi=62.16% (92/148)  f---ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIEERDDCP----a  -nlsELSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE--</p> <p><b>Proposed:</b> aliSize=146 (resi) RMSD=1.43 (Å)  - F-ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIEER--DDC--a  nLsELSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE--</p>
967	<p>1dzkA (148)</p> <p>1gt3A (159)</p>	C	41.89	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.62 (Å)  -----F-ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDiedqdlekfkevtrengipeenivniier-----DDCpa  aqeeaeqnlSLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVKL-----nvededlekfwkltedkgidkknvvnflenenhpHE--</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=14.07 (Å)  fe-----LSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGiceefsligtqegn-----YDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIE-----erddcpa  --aqeeaeqnlseLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDK-----kwknvhvkatkqddgTYADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVKLNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE-----</p> <p><b>BLAST:</b> aliSize=90 (resi) iden=41.89% (62/148) simi=60.81% (90/148)  f-----ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIEERDDCP----a  -aqeeaeqnlSLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE--</p> <p><b>Proposed:</b> aliSize=146 (resi) RMSD=1.40 (Å)  -----F-ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIEER--DDC--a  aqeeaeqnlSLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE--</p>
968	<p>1dzkA (148)</p> <p>1gt1A (158)</p>	C	41.89	<p><b>TM-align:</b> aliSize=115 (resi) RMSD=1.64 (Å)  -----F-ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDiedqdlekfkevtrengipeenivniier-----DDCpa  qeeaeqnlSLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVKL-----nvededlekfwkltedkgidkknvvnflenenhpHE--</p> <p><b>SARST:</b> aliSize=123 (resi) RMSD=14.05 (Å)  fe-----LSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGiceefsligtqegn-----YDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIE-----erddcpa  --qeeaeqnlseLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDK-----kwknvhvkatkqddgTYADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE-----</p> <p><b>BLAST:</b> aliSize=90 (resi) iden=41.89% (62/148) simi=60.81% (90/148)  f-----ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIEERDDCP----a  -qeeaeqnlSLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE--</p> <p><b>Proposed:</b> aliSize=146 (resi) RMSD=1.42 (Å)  -----F-ELSGKNIISYIGSSDLEKIGENAPFQVFMRSIEFDDKESKYYLNFSKENGICEEFSLIGTKQEGNTYDNYAAGNKKFVVSYSASETALIIISNINVDEEGDKTIMITGLLGGKTDIEDQDLEKFKVETRENGIPEENIVNIIEER--DDC--a  qeeaeqnlSLSGPWRIVYIGSTNPEKIQENGPRTYFRELVEDEKGTDFYFSVSRDKWKNVHVKATKODDGTIVADYEQNVKIVSLSRTHVAHNINVDKHCQOTELTEL FVK-LNVEDEDLEKFWKLTEDKGI DKKNVVNFLENEDHPHE--</p>

969	<p>lew3A (159)</p> <p>1g85A (159)</p>	N	16.35	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.65 (Å)  vair-----N-FDLSKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSpeikeefvkivqrgivkeniidltkidr-----CFOLRg--  -----aqeeAeQNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnfle</p> <p>-CFOLRg--  nENHPH-pe</p> <p><b>SARST:</b> aliSize=148 (resi) RMSD=13.71 (Å)  v---AIRNFDLSKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKI-----drcfqlrg  -aqeEEAEQNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenhphpe-----</p> <p><b>BLAST:</b> aliSize=80 (resi) iden=24.53% (39/159) simi=50.31% (80/159)  vairnf-----DISKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKI-----ltkidrcfqlrg  -----aqeeaeqNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnfle</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.83 (Å)  -VAIRNFDLSKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYARE-----pdvspeikeefvkivqrgivkeniidltkidrcfqlRG  aqEEAEQNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnfle</p> <p>-----  nenhphpe</p>
970	<p>lew3A (159)</p> <p>1g85A (159)</p>	C	22.01	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.65 (Å)  vair-----N-FDLSKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSpeikeefvkivqrgivkeniidltkidr-----CFOLRg--  -----aqeeAeQNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnfle</p> <p>-CFOLRg--  nENHPH-pe</p> <p><b>SARST:</b> aliSize=148 (resi) RMSD=13.71 (Å)  v---AIRNFDLSKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKI-----drcfqlrg  -aqeEEAEQNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenhphpe-----</p> <p><b>BLAST:</b> aliSize=80 (resi) iden=24.53% (39/159) simi=50.31% (80/159)  vairnf-----DISKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKI-----ltkidrcfqlrg  -----aqeeaeqNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnfle</p> <p><b>Proposed:</b> aliSize=148 (resi) RMSD=1.89 (Å)  vairnf-----DISKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKID-RCFOLRg  -----aqeeaeqNLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnfle</p>
971	<p>lew3A (159)</p> <p>1pboB (151)</p>	C	23.18	<p><b>TM-align:</b> aliSize=117 (resi) RMSD=2.45 (Å)  vairnfDISKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSpeikeefvkivqrgivkeniidltkidr-----CFOLRg--  -----NLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnflenEDHPH-pe</p> <p><b>SARST:</b> aliSize=139 (resi) RMSD=13.73 (Å)  vairnfdisk---ISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKI-----drcfqlrg  -----nlseLSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnflenEDHPH-pe</p> <p><b>BLAST:</b> aliSize=80 (resi) iden=25.83% (39/151) simi=52.98% (80/151)  vairnfDISKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKI-----ltkidrcfqlrg  -----NLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnflenEDHPH-pe</p> <p><b>Proposed:</b> aliSize=148 (resi) RMSD=1.91 (Å)  vairnfDISKISGEYYSIFLASDVKKEKTEENGSMRVFVDVTRAL-DNSSLYAEYOTVNGECTEFPMVFDTEEDgVYSLNDCYVFRSEFeNDEIILYLVNFDKDRPFQLEFYAREPdvSPKIKFEVIVOKRGIVKENIIDLTKID-RCFOLRg  -----NLSELSGPPRTVYIGSTNPEKIQENGPFRITYFRELVFDDKGTVDYFYSVVRDCKWKNVHVKATQDDG-TYVADYEQNVFKVSL-SRTLVAHNIIVDKHGQTTETGLFVKLNVEDDLKFWLWLTEDKGDCKNVNFFLEnenedlekwkltedkgidkknvvnflenEDHPH-pe</p>

972	N	16.98	<p><b>lew3A (159)</b></p> <p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.65 (Å)  vair-----N-FD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-KDRPFO[LF]FYAR[EP]dvspeikeefvkivqrgivkeniidltkidr-----nvededlekfwkltedkgidkknvvnfle  ----aqeeAeQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKL-----</p> <p>-CFOLRg--  nENHPH-pe</p> <p><b>SARST:</b> aliSize=148 (resi) RMSD=13.70 (Å)  v---AIRNFD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]DRPFOL[FE]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIIDLTKI-----drcfqlrg  -aeEEAEQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKL-NVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFLENenhphe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=25.16% (40/159) simi=50.94% (81/159)  vairnf-----D[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-DRPFOL[FE]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIID-----ltkidrcfqlrg  -----aqeeaeqNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SLSR-T[LV]AHNI[V]D[k]HGQTE[IT]ELFVK-LNVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFlenenhphe-----</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.83 (Å)  -VAIRNFD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-KDRPFO[LF]FYARE-----pdvspeikeefvkivqrgivkeniidltkidrcfqlRG  aQEEAEQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKLnvededlekfwkltedkgidkknvvnf-----LE</p> <p>-----  nenhphe</p>
973	C	22.64	<p><b>lew3A (159)</b></p> <p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.65 (Å)  vair-----N-FD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-KDRPFO[LF]FYAR[EP]dvspeikeefvkivqrgivkeniidltkidr-----nvededlekfwkltedkgidkknvvnfle  ----aqeeAeQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKL-----</p> <p>-CFOLRg--  nENHPH-pe</p> <p><b>SARST:</b> aliSize=148 (resi) RMSD=13.70 (Å)  v---AIRNFD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]DRPFOL[FE]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIIDLTKI-----drcfqlrg  -aeEEAEQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKL-NVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFLENenhphe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=25.16% (40/159) simi=50.94% (81/159)  vairnf-----D[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-DRPFOL[FE]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIID-----ltkidrcfqlrg  -----aqeeaeqNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SLSR-T[LV]AHNI[V]D[k]HGQTE[IT]ELFVK-LNVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFlenenhphe-----</p> <p><b>Proposed:</b> aliSize=148 (resi) RMSD=1.89 (Å)  vairnf-----D[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-KDRPFO[LF]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIIDLTKID-R[CFOL]Rg  -----aqeeaeqNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVK-LNVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFLENenHPHE--</p>
974	N	17.09	<p><b>lew3A (159)</b></p> <p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.66 (Å)  vair-----N-FD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-KDRPFO[LF]FYARE[EP]dvspeikeefvkivqrgivkeniidltkidr-----nvededlekfwkltedkgidkknvvnflen  ----qeeAeQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKL-----</p> <p>CFOLRg--  ENHPH-pe</p> <p><b>SARST:</b> aliSize=146 (resi) RMSD=13.53 (Å)  vai---RNFD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]DRPFOL[FE]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIIDLTKI-----drcfqlrg  ---qeeAeQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKL-NVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFLENenhphe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=25.32% (40/158) simi=51.27% (81/158)  vairnf-----D[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-DRPFOL[FE]FYARE[PD]VSP[IK]E[EV]K[V]VOKRG[V]KENIID-----ltkidrcfqlrg  -----qeeaeqNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SLSR-T[LV]AHNI[V]D[k]HGQTE[IT]ELFVK-LNVED[DL]E[K]W[L]TEDKG[IK]K[V]VNFlenenhphe-----</p> <p><b>Proposed:</b> aliSize=120 (resi) RMSD=1.83 (Å)  VAIRNFD[SKT]S[EN]YSIFLAS[DV]K[E]E[EN]SMR[V]FVDV[IR]AL-DNSSL[YA]EYOT[VN]E[CT]E[FPM]VFD[TE]E[d]g[V]SLN[D]CY[N]VFR[SE]F[e]NDE[II]L[YL]V[N]F[K]-KDRPFO[LF]FYARE-----pdvspeikeefvkivqrgivkeniidltkidrcfqlRG-  QEEAEQNL[SEL]S[CP]R[TV]YIG[ST]NPEK[IQ]ENG[PFR]TYFREL[VFD]dEKGTVD[DF]YFSV[RD]KWKNVHVKAT[QDD]G-T[V]VAD[IE]Q[N]VFK[V]SL-SRT[LV]AHNI[V]D[k]HGQTE[IT]ELFVKLnvededlekfwkltedkgidkknvvnf-----LEn</p> <p>-----  enhphe</p>

975	<p>lew3A (159)</p> <p>1gt1A (158)</p>	C	22.78	<p><b>TM-align:</b> aliSize=119 (resi) RMSD=2.66 (Å)  vai-----N-FDI SKI SCEN YSTIFLAS DVK EK TEENG SMRVFVDVIRAL--DNSSL YAEYOTVNVN ECTEFPMVFDI TEEDg V SLN YDQY NVFR I SEFeNDE I I L Y L V N F K -KDRPFOL FEFYA R E P D V S P I K E E V K I V O K R G I V K E N I I D L T K I -----drcfqlrg  -----qeeeaEQNLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSL-SRTLVAHNI NVK HGQTTEL TELFVKL-----nvededlekfwkltedkgidkknvvnflen</p> <p>CFOLrg--  ENHPH-pe</p> <p><b>SARST:</b> aliSize=146 (resi) RMSD=13.53 (Å)  vai-----RNFDI SKI SCEN YSTIFLAS DVK EK TEENG SMRVFVDVIRAL--DNSSL YAEYOTVNVN ECTEFPMVFDI TEEDg V SLN YDQY NVFR I SEFeNDE I I L Y L V N F K -DRPFOL FEFYA R E P D V S P I K E E V K I V O K R G I V K E N I I D L T K I -----drcfqlrg  -----qeeeaEQNLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSL-SRTLVAHNI NVK HGQTTEL TELFVKL NVEDDL EKFWL TEDKGIDKKNVVNFLENenhphe-----</p> <p><b>BLAST:</b> aliSize=81 (resi) iden=25.32% (40/158) simi=51.27% (81/158)  vairnf-----DI SKI SCEN YSTIFLAS DVK EK TEENG SMRVFVDVIRAL--DNSSL YAEYOTVNVN ECTEFPMVFDI TEEDg V SLN YDQY NVFR I SEFeNDE I I L Y L V N F K -DRPFOL FEFYA R E P D V S P I K E E V K I V O K R G I V K E N I I D L T K I -----ltkidrcfqlrg  -----qeeeaEQNLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSLSR-TLVAHNI NVK HGQTTEL TELFVK-LNVEDDL EKFWL TEDKGIDKKNVVNFLENenhphe-----</p> <p><b>Proposed:</b> aliSize=148 (resi) RMSD=1.89 (Å)  vairnf-----DI SKI SCEN YSTIFLAS DVK EK TEENG SMRVFVDVIRAL--DNSSL YAEYOTVNVN ECTEFPMVFDI TEEDg V SLN YDQY NVFR I SEFeNDE I I L Y L V N F K -KDRPFOL FEFYA R E P D V S P I K E E V K I V O K R G I V K E N I I D L T K I D -RCFOLrg  -----qeeeaEQNLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSL-SRTLVAHNI NVK HGQTTEL TELFVK-LNVEDDL EKFWL TEDKGIDKKNVVNFLENenHPHPE--</p>
976	<p>2a2uA (158)</p> <p>1pboB (151)</p>	C	26.49	<p><b>TM-align:</b> aliSize=114 (resi) RMSD=1.64 (Å)  eeasstrgnl DVAKI NQDFSTIVVANKREK TEENG SMRVFMOHIDVL--ENSLG K R I K E N E C R E L Y L V Y T P E d E E F V E Y D G N T I I L K T D Y d R Y V M F L I N F K -N G E T F O L M V Y G R T K d I s s d i k e k f a k l c e a h g i t r d n i d l t k -----  -----NLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSLSR-TLVAHNI NVK HGQTTEL TGFVKL-----nvededlekfwkltedkgidkknvvnflenedhp</p> <p>TDRcl  HPE--</p> <p><b>SARST:</b> aliSize=138 (resi) RMSD=13.67 (Å)  eeasstrgnldv--AKI NQDFSTIVVANKREK TEENG SMRVFMOHIDVL--ENSLG K R I K E N E C R E L Y L V Y T P E d E E F V E Y D G N T I I L K T D Y D R Y V M F L I N F K -N G E T F O L M V Y G R T K D L S S D I K E K F A K I C E A H G I T R D N I I D L T -----ktdrc1  -----nlSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSLSR-TLVAHNI NVK HGQTTEL TGFVKL NVEDDL EKFWL TEDKGIDKKNVVNFLENedhphe-----</p> <p><b>BLAST:</b> aliSize=82 (resi) iden=29.14% (44/151) simi=54.30% (82/151)  eeasstrgnl DVAKI NQDFSTIVVANKREK TEENG SMRVFMOHIDVL--ENSLG K R I K E N E C R E L Y L V Y T P E d E E F V E Y D G N T I I L K T D Y D R Y V M F L I N F K -N G E T F O L M V Y G R T K D L S S D I K E K F A K I C E A H G I T R D N I I D L T K T D -----rcl  -----NLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSLSR-TLVAHNI NVK HGQTTEL TGFVKL NVEDDL EKFWL TEDKGIDKKNVVNFLENedhphe-----</p> <p><b>Proposed:</b> aliSize=144 (resi) RMSD=1.47 (Å)  eeasstrgnl DVAKI NQDFSTIVVANKREK TEENG SMRVFMOHIDVL--ENSLG K R I K E N E C R E L Y L V Y T P E d E E F V E Y D G N T I I L K T D Y d R Y V M F L I N F K -N G E T F O L M V Y G R T K d L S S D I K E K F A K I C E A H G I T R D N I I D L T K T D -RCL--  -----NLSELSCPVRTVYIGSTNPEKIQENGPFRITYFREL VFDdEKGTVDYFYSVVRDQKWKNVHVKATIQDDG-TVADYEQNVFKVSLSR-TLVAHNI NVK HGQTTEL TGFVKL-LNVEDDL EKFWL TEDKGIDKKNVVNFLENedHPHpe</p>
977	<p>1hcfX (101)</p> <p>1he7A (107)</p>	N	45.54	<p><b>TM-align:</b> aliSize=85 (resi) RMSD=2.04 (Å)  shmaptitflespts-----DHHWCIPFTIKNKPKALQWFYNGAILNESKYI CTKIHVNTN--HTEYHGCLQLDNPTHMNGDYTLI I KNEYKDEKQI SAHFMGWg-----  -----shmpasvqlhtaveMHHWCIPFSIDQAPASLRNLFNGSVLNETSFI FEFLEPAAnEIVRHGCLRINOPHTVNNQNYTLIAANPFQASASIMAAFMdNf-fefnpe</p> <p><b>SARST:</b> aliSize=93 (resi) RMSD=15.54 (Å)  s--MAPTI tFLESPTS DHHWCIPFTIKNKPKALQWFYNGAILNESKYI CTKIHVNTN--HTEYHGCLQLDNPTHMNGDYTLI I KNEYKDEKQI SAHFMGWg-----fmgwpg  --shmpasv-QHTAVEMHHWCIPFSIDQAPASLRNLFNGSVLNETSFI FEFLEPAAnEIVRHGCLRINOPHTVNNQNYTLIAANPFQASASIMAAFMdnpfefnpe-----</p> <p><b>BLAST:</b> aliSize=66 (resi) iden=48.51% (49/101) simi=65.35% (66/101)  SHMaPTI tFLESPTS DHHWCIPFTIKNKPKALQWFYNGAILNESKYI CTKI--HVTNHTEYHGCLQLDNPTHMNGDYTLI I KNEYKDEKQI SAHFMGWg-----g  SHM-PASVQHTAVEMHHWCIPFSIDQAPASLRNLFNGSVLNETSFI FEFLePAAnEIVRHGCLRINOPHTVNNQNYTLIAANPFQASASIMAAFMdNf-fefnpe-</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.29 (Å)  SHMaPTI tFLESPTS DHHWCIPFTIKNKPKALQWFYNGAILNESKYI CTKIHVNTN--HTEYHGCLQLDNPTHMNGDYTLI I KNEYKDEKQI SAHFMGWg-----wpg  SHMPASV-QHTAVEMHHWCIPFSIDQAPASLRNLFNGSVLNETSFI FEFLEPAAnEIVRHGCLRINOPHTVNNQNYTLIAANPFQASASIMAAFMdNpfefnpe-----</p>

978	1fhgA (102)	N	14.71	<p><b>TM-align:</b> aliSize=80 (resi) RMSD=1.88 (Å)  aekphvkpyfktkilDmevve-----GSAARFDCKVEYFDPEVMWFKDDNPVKE SRHFQIDY-DE-----EGNCSITISEVCGDDDAKYCKAVNSLGEATCTAELLVETM-----  -----shmpasvqlhtaveMHWCI PFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNpfe fnpe</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=14.98 (Å)  aekph--VKPYFtktILDMEVVEgSAARFDCKVEYFDPEVMWFKDDNPVKE SRHFQIDY--DEEGN----CSITISEVCGDDDAKYCKAVNSLGEATCTAELLV-----etm  -----shMPASV--QLHTAVEMH--HWCIPFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetv rhGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFmdnpfe fnpe---</p> <p><b>BLAST:</b> aliSize=31 (resi) iden=14.71% (15/102) simi=30.39% (31/102)  aekphvkpyfktkilDmevvegsaarfdck-----VEYFDPEVMWFKDDNPVKE SRHFQIDYDEEG-----NCsITISEVCGDDDAKYCKAVNSLGEATCT-----aellvetm  -----shmpasvqlhtaveMhwci pfsVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetv rhGCRNLNQP THVNNNGNYLLAANPFGQASAS imaa fmdnpfe fnpe-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=1.99 (Å)  aeEKPHVkpPYFTKILDMEVVEgSAARFDCKVEYFDPEVMWFKDDNPVKE SRHFQIDY-DE-----EGNCSITISEVCGDDDAKYCKAVNSLGEATCTAELLVETM-----  --SHMPA--SVQLHTAVEMH----HWCIPFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNpfe fnpe</p>
979	2dm3A (110)	N	18.69	<p><b>TM-align:</b> aliSize=82 (resi) RMSD=2.05 (Å)  gssgsgfrphflqapgdltVqg-----GKLCRMDCKVSLFTPDLSWQLDGKPVVRPDAHKMLV-RE-----NGVHSITIEPVT SRDAGIYTCIATIRAGONSFSLELVVAAKESgps sg-----  -----shmpasvqlhtaveMHWCI PFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNPF-----efnpe</p> <p><b>SARST:</b> aliSize=91 (resi) RMSD=13.07 (Å)  gssgsgfrphfl-QAFGDLTVQEGKLCRMDK---KVSLEFTPDLSWQLDGKPVVRPDA--HKMLVRENGV---HSITIEPVT SRDAGIYTCIATIRAGONSFSLELVVAAKE-----sgps sg  -----shMPASVQLHTAVEMHHCIPFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetv rhGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNPFefnpe-----</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=19.63% (21/107) simi=27.10% (29/107)  gssgsgfrphflqapgdltVqegkLCrmdck-----VSLFTPDLSWQLDGKPVVRPDA--HKMLV---VRENGVHSLI-IEPVT SRDAGIYTCIATIRAGONSFSL-----elvvaakesgps sg  -----shmpasvqlhtaveMhwci pfsVDCQAPSLRRLFNGLSVLNETSFI FTEFL EpaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS Imaa fmdnpfe fnpe-----</p> <p><b>Proposed:</b> aliSize=95 (resi) RMSD=1.90 (Å)  gssgsgFRPHFlqAPGDLTVQegKLCRMDCKVSLFTPDLSWQLDGKPVVRPDAHKMLV-RE-----NGVHSITIEPVT SRDAGIYTCIATIRAGONSFSLELVVAAK-eS-----gps sg  -----SHMPASV--QLHTAVEMH--HWCIPFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNp-Fe fnpe-----</p>
980	1glcA (98)	N	17.35	<p><b>TM-align:</b> aliSize=80 (resi) RMSD=1.63 (Å)  smeapki feriqstvgq-----GSDAHRVVRVVKFDPECEWYKNGVK IERSDRYIYWYWPED-----NVCEIVTRDVTGEDSASIMVKAINIAGETSSHAFLLVQAK-----  -----shmpasvqlhtaveMHWCI PFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNpfe fnpe</p> <p><b>SARST:</b> aliSize=87 (resi) RMSD=12.43 (Å)  smeapki f--ERIQSITVQ--GSDAHRVVRVVKFDPECEWYKNGVK IERSDRYIYWY----PDNVC-ETVTRDVTGEDSASIMVKAINIAGETSSHAFLLV-----qak  -----shMPASVQLHTAVEMHHCIPFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL Epaanetv rhGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFmdnpfe fnpe---</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=11.22% (11/98) simi=16.33% (16/98)  smeapki feriqstvgqgsdahfrvr-----VVKFDPECEWYKNGVK IERSDRYIYWYWPEDNVCEIV-----irdvtgedsasimvkainiagetsshafllvqak  -----shmpasvqlhtaveMhwci pfsVDCQAPSLRRLFNGLSVLNETSFI FTEFL Epaanetv rhgcl rlnqpthvnnngnyllaanpfgqasas imaa fmdnpfe fnpe-----</p> <p><b>Proposed:</b> aliSize=94 (resi) RMSD=1.75 (Å)  smEAPKIfeRIQSITVQGS DAHRVVRVVKFDPECEWYKNGVK IERSDRYIYWYWPED-----NVCEIVTRDVTGEDSASIMVKAINIAGETSSHAFLLVQAK-----  --SHMPA--SVQLHTAVEMHHCIPFSVDCQAPSLRRLFNGLSVLNETSFI FTEFL EPaanetVRHGCRNLNQP THVNNNGNYLLAANPFGQASAS IMAAFMDNpfe fnpe</p>

981	<p>1u2hA (96)</p> <hr/> <p>1he7A (107)</p>	N	19.79	<p><b>TM-align:</b> aliSize=79 (resi) RMSD=1.40 (Å)  kapptfkvs lmdqsvre-----GQDVIMSTRVQCEPKVVSRLRROPVVRPDORRAEAE-E-----GGLCRRLILAAERGDALFYTCCKAVNEYARQCEARLEVR-G-----  -----shmpasvqlhtaveMHWCIPEFSDCOAPSLRVLFGSVLNETSFIFTEFLPaanetVRHGCLRLNQPTHVNNNYLLAANPFGQASASIMAAFMDNpfefnpe</p> <p><b>SARST:</b> aliSize=79 (resi) RMSD=15.38 (Å)  kapptfk--VSLMDQSVREGOQDVIMSTRVQCEPKVVSRLRROPVVRPDORRAEAE--GGL---CRLILAAERGDALFYTCCKAVN-----EYGAR--qclearlevrg  -----shMPASVQLHTAVEMHWCIPFSVDCOAPSLRVLFGSVLNETSFIFTEFLPaANETvrhGCLRLNQPTHVNNNYLLAANPFGQASASIMAAFMDNPFEPNpe-----</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=19.79% (19/96) simi=26.04% (25/96)  kapptfkvs lmdqsvreGQdvimsir-----VQCEPKVVSRLRROPVVRPDORRAEAEEGGLCR---LILAAERGDALFYTCCKAVNEYG-----arqclearlevrg  -----shmpasvqlhtavemhwcipfsVDCOAPSLRVLFGSVLNETSFIFTEFLPaANETvrhGCLRLNQPTHVNNNYLLAANPFGQASASIMAAFMDNPFEPNpe-----</p> <p><b>Proposed:</b> aliSize=92 (resi) RMSD=1.46 (Å)  kApPTF-kvSLMDQSVREGOQDVIMSTRVQCEPKVVSRLRROPVVRPDORRAEAE-EG-----GLCRRLILAAERGDALFYTCCKAVNEYARQCEARLEVR-G-----  -S-HMPa--SVQLHTAVEMHWCIPFSVDCOAPSLRVLFGSVLNETSFIFTEFLPaanetVRHGCLRLNQPTHVNNNYLLAANPFGQASASIMAAFMDNpfefnpe</p>
982	<p>2a5mA (177)</p> <hr/> <p>1ytqA (181)</p>	C	33.90	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.66 (Å)  sktGGKISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngqmyettedcpsimeqfhlreihsckvvegwti fyelpnyrgrylldkkeyrkpvdwgaaspaiqsfrive-----  --LNPkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRrTDSLSSLRPIKVDsQEH-----kiilyenpnf</p> <p>-----  tgkkmeiiddvpsfhahgyqekvsrvrqsgtwvgyqpygrlqyllkgykdsdfgaphpqvqsvrri rdmqw</p> <p><b>SARST:</b> aliSize=170 (resi) RMSD=15.72 (Å)  skt-GGKISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngom-YETTEDCPSIMEqFHLRE-IHCKVVEGTWIFVELPNYRGROYLLDKKEYRKPVWGAASAIOSFRRI-----ve  ---LNPkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRRTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHA-HGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRdmqw--</p> <p><b>BLAST:</b> aliSize=94 (resi) iden=34.46% (61/177) simi=53.11% (94/177)  sktgg---KISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngomyf-TTTCPSIMEOFHLREIHSCKVVEGTWIFVELPNYRGROYLLDKKEYRKPVWGAASAIOSFRRI-----ve  -----lnpkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRrTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHAHGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRdmqw--</p> <p><b>Proposed:</b> aliSize=174 (resi) RMSD=1.42 (Å)  sktGGKISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngomyf-TTTCPSIMEOFHLREIHSCKVVEGTWIFVELPNYRGROYLLDKKEYRKPVWGAASAIOSFRRIIVE---  --LNPkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRrTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHAHGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRdmqw</p>
983	<p>2a5mA (177)</p> <hr/> <p>2bb2A (181)</p>	C	33.90	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.56 (Å)  s-----KTGGKISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngqmyettedcpsimeqfhlreihsckvvegwti fyelpnyrgrylldkkeyrkpvdwgaaspaiqsfrive-----  --LnpkiiifeqenfghshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqvfvekyprwdsWTSsRrTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHAHGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRDM-----</p> <p>-----  ekgdfngqmyettedcpsimeqfhlreihsckvvegwti fyelpnyrgrylldkkeyrkpvdwgaaspaiqsfrive</p> <p><b>SARST:</b> aliSize=169 (resi) RMSD=16.17 (Å)  skt-GGKISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngomyf-TTTCPSIMEOFHLREIHSCKVVEGTWIFVELPNYRGROYLLDKKEYRKPVWGAASAIOSFRRI-----ve  ---LNPkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRRTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHA-HGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRdmqw--</p> <p><b>BLAST:</b> aliSize=94 (resi) iden=34.46% (61/177) simi=53.11% (94/177)  sktgg---KISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngomyf-TTTCPSIMEOFHLREIHSCKVVEGTWIFVELPNYRGROYLLDKKEYRKPVWGAASAIOSFRRI-----ve  -----lnpkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRrTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHAHGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRdmqw--</p> <p><b>Proposed:</b> aliSize=174 (resi) RMSD=1.43 (Å)  sktGGKISFYEDRNEOCRRYDCDCDADFRSY-LSRCNSIRVEGTTAVYERPNSFSHMYILPOGEYPEYORWGL-L-NDRIGSCRAVHLSGGQAKIQVFekgdfngomyf-TTTCPSIMEOFHLREIHSCKVVEGTWIFVELPNYRGROYLLDKKEYRKPVWGAASAIOSFRRIIVE---  --LNPkIIIFEQENFOGHSHELNGP-PNLKETgVEKAGSVLQACPNVGYEQANCKGEQVFVEKGEYPRWDSWTSsRrTDSLSSLRPIKVDsQEHKIIILYENPNFTGKKMEIIDDVPSFHAHGYQEKVSVRQSGTWVGYQYGYRGLDYLLKGDYKDSDFGAPHQVOSVRRIRdmqw</p>



984	C	35.26	<p><b>1a45A (173)</b></p> <p>TM-align: aliSize=87 (resi) RMSD=1.72 (Å)  --GKTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG-L-NDSIRSCRLPHTGSHRLRIVEREDYRGAMVEITEDCSSLHDFHFSEIHSFNVLGWWLVEMTNVGRVLLRPGDYRRVHDWGATNARVGLRRVDFV-----  lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQE-----hkiilyenpnft</p> <p>gkkmeiiddvpsfhahgyqekvsvrvqsgtwvgyqygyrglqyllkgydkdssdfgaphpqvsvrri rdmqw</p> <p><b>1ytqA (181)</b></p> <p>SARST: aliSize=167 (resi) RMSD=15.88 (Å)  g---KTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--MGLNDSIRSCRLPHTGSHRLR-IVYREDYRQOMVEI-TEDCSSLHDFHFSEIHSFNVLGWWLVEMTNVGRVLLRPGDYRRYHWGATNARVGLRRVDFV-----vdly  -lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRRTDLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw----</p> <p>BLAST: aliSize=93 (resi) iden=35.26% (61/173) simi=53.76% (93/173)  g---KTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--LNDSTRSCRLPHTGSHRLRIVYREDYRQOMVEI-TEDCSSLHDFHFSEIHSFNVLGWWLVEMTNVGRVLLRPGDYRRYHWGATNARVGLRRVDFV-----fy  -lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw--</p> <p>Proposed: aliSize=170 (resi) RMSD=1.51 (Å)  --GKTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG-L-NDSIRSCRLPHT-GSHRLRIVEREDYRQOMVEI-TEDCSSLHDFHFSEIHSFNVLGWWLVEMTNVGRVLLRPGDYRRYHWGATNARVGLRRVDFV-----fy  lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw--</p>
985	N	35.84	<p><b>2v2uA (173)</b></p> <p>TM-align: aliSize=86 (resi) RMSD=1.00 (Å)  -----GKTFEDRSFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMGFDSDSTRSCRLPHAGSHRLRlye  lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwgyeqanckgeqvfekgeyprwdsstssrrtdslslrpikvdsqehkiilyenpnftkkmevidddvpsfahgyqekvsvrvqsgtwvgyqygyrGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw-----</p> <p>dhkgvmmelsedcsciqrhflsevrslqvlegcwlyempnyrgrqyllrpqeyrrfdqdgsvdakagslrrvdly</p> <p><b>2bb2A (181)</b></p> <p>SARST: aliSize=167 (resi) RMSD=16.38 (Å)  g---KTFEDRSFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--MgFSDSTRSCRLPHAGSHRMRVYKEDHKVMMLSEI-CSCIODRFHLSEVRSLOVLECWVLYEMTNVGRVLLRPOEYRRFQVWGSVDAKAGSLRRVDFV-----vdly  -lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw----</p> <p>BLAST: aliSize=96 (resi) iden=36.42% (63/173) simi=55.49% (96/173)  g---KTFEDRSFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--SDSTRSCRLPHAGSHRMRVYKEDHKVMMLSEI-CSCIODRFHLSEVRSLOVLECWVLYEMTNVGRVLLRPOEYRRFQVWGSVDAKAGSLRRVDFV-----y  -lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw-</p> <p>Proposed: aliSize=171 (resi) RMSD=1.22 (Å)  --GKTFEDRSFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--GFSSTRSCRLPHAGS-HRMRVYKEDHKVMMLSEI-CSCIODRFHLSEVRSLOVLECWVLYEMTNVGRVLLRPOEYRRFQVWGSVDAKAGSLRRVDFV-----ly  lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRRTDLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw--</p>
986	C	36.78	<p><b>1amma (174)</b></p> <p>TM-align: aliSize=86 (resi) RMSD=1.10 (Å)  -----GKTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMGFDSDSTRSCRLPHAGSHRLRlye  lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwgyeqanckgeqvfekgeyprwdsstssrrtdslslrpikvdsqehkiilyenpnftkkmevidddvpsfahgyqekvsvrvqsgtwvgyqygyrGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw-----</p> <p>ddfrgqmseitddcpslqdrfhltevhslnvlegswvlyempsyrgqyllrpqeyryldwgannakvgslrrvmdfy</p> <p><b>2bb2A (181)</b></p> <p>SARST: aliSize=167 (resi) RMSD=16.50 (Å)  g---KTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--MgFSDSTRSCRLPHAGSHRMRVYKEDHKVMMLSEI-CSCIODRFHLSEVRSLOVLECWVLYEMTNVGRVLLRPOEYRRFQVWGSVDAKAGSLRRVDFV-----mdfy  -lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw----</p> <p>BLAST: aliSize=97 (resi) iden=37.36% (65/174) simi=55.75% (97/174)  g---KTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--NDSIRSCRLPHAGSHRMRVYKEDHKVMMLSEI-CSCIODRFHLSEVRSLOVLECWVLYEMTNVGRVLLRPOEYRRYLDWGAMNAKVGSLRRVDFV-----fy  -lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRrTDSLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw--</p> <p>Proposed: aliSize=172 (resi) RMSD=1.23 (Å)  --GKTFYEDRGFOGRHYECSSDHSNLOPY-FSRCNSIRSDSCWMLYERPNOYHOYFLRRDYDYOOVMG--GFNDSIRSCRLPHAGSHRMRVYKEDHKVMMLSEI-CSCIODRFHLSEVRSLOVLECWVLYEMTNVGRVLLRPOEYRRYLDWGAMNAKVGSLRRVDFV-----fy  lnPKIIFEQENFOGHSHLNGPCPNLKETgVEKAGSVLQAQPNVGYEQANCKGEQVFVEKGEYPRWDSVTSsRRTDLSLPLKVDsQEHKIILYENPNFTKKMEVIdDDVPSFHAHGYQEKVSVRVQSGTWVGYQYGYRGLDYLLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw--</p>

987	<p><b>lzwmA</b> (177)</p> <p><b>lytqA</b> (181)</p>	C	33.90	<p><b>TM-align:</b> aliSize=90 (resi) RMSD=1.59 (Å)</p> <p>lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----SKTGGKISFYEDRNFQRRYDCDCADFR--SYLSRCNSIRVEGTTAVYERPNSHMYILPOGEYFYORMGLNDRIKSCRAVHLS<b>SG</b>gakiqvfe  DSEHKLILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW-----</p> <p>kgdfngqmyettedcpsimeqfhlreihsckvvegtwifyelpnygrqylldkkeyrkpvdwgaaspaiqsfrive</p> <p><b>SARST:</b> aliSize=170 (resi) RMSD=15.34 (Å)</p> <p>skt---GGKISFYEDRNFQRRYDCDCADFRSY-LSRCNSIRVEGTTAVYERPNSHMYILPOGEYFYORMGLNDRIKSCRAVHLS<b>SG</b>gakiqvfe-----v  ---lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----DSEHKLILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW-</p> <p><b>BLAST:</b> aliSize=94 (resi) iden=34.66% (61/177) simi=53.41% (94/177)</p> <p>sktgg---GGKISFYEDRNFQRRYDCDCADFRSY-LSRCNSIRVEGTTAVYERPNSHMYILPOGEYFYORMGLNDRIKSCRAVHLS<b>SG</b>gakiqvfe-----v  -----lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----DSEHKLILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW-</p> <p><b>Proposed:</b> aliSize=174 (resi) RMSD=1.45 (Å)</p> <p>sktgg---GGKISFYEDRNFQRRYDCDCADFRSY-LSRCNSIRVEGTTAVYERPNSHMYILPOGEYFYORMGLNDRIKSCRAVHLS<b>SG</b>gakiqvfe-----v  ---lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----DSEHKLILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW-</p>
988	<p><b>2jdfA</b> (175)</p> <p><b>lytqA</b> (181)</p>	C	34.86	<p><b>TM-align:</b> aliSize=89 (resi) RMSD=1.84 (Å)</p> <p>gkittfyedrafqgrsyecttdcpnlqpyfsrncsirvesgcwmiyerpnyqghyqlrrgeypdyqwmglssdsirsccli<b>pph</b>-----lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----SGAYRMKIYDRDELRLQ  -----lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGK</p> <p>MSHLT-DLCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl--  KMIIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p> <p><b>SARST:</b> aliSize=168 (resi) RMSD=15.88 (Å)</p> <p>g---GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  -lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p> <p><b>BLAST:</b> aliSize=99 (resi) iden=34.86% (61/175) simi=56.57% (99/175)</p> <p>g---GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  -lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p> <p><b>Proposed:</b> aliSize=172 (resi) RMSD=1.30 (Å)</p> <p>---GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p>
989	<p><b>2jdfA</b> (175)</p> <p><b>2bb2A</b> (181)</p>	C	34.86	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=1.15 (Å)</p> <p>lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  -----lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p> <p>delrgqmseltdclsvqdrfhlteihslvlegswilyempnygrqyllrpeyrrfldwgapnakvgsllrrvmdlyl</p> <p><b>SARST:</b> aliSize=167 (resi) RMSD=16.38 (Å)</p> <p>g---GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  -lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p> <p><b>BLAST:</b> aliSize=98 (resi) iden=34.86% (61/175) simi=56.00% (98/175)</p> <p>g---GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  -lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p> <p><b>Proposed:</b> aliSize=172 (resi) RMSD=1.31 (Å)</p> <p>---GKITYEDRAFQGRSYECTTDCPNLOPY-FSRCNSIRVESGCWMIYERPNOYHOYFLRRGEYDYOOMGLSDSIRSCCL<b>PPHSGAYRMKIYDRDELRLQMS</b>ELTDDCLVQDRFHLTEHSLNLEISWILYEMPNYRCROYLIRPTEYRRFLDWGAPNAKVGSLRRVMDlyl  lnpkiiifeqenfqgshelngpcpnlketgvekagsvlvqagpwwgyeqanckgeqfvekgeyprwdswtsrrtdslsslrpikv-----KVDSEHKILYENPNFTGKMEIIDDVPSFHAHGQYQEKVSSVRVQSGTWWGQYQYGRGLOYLLEKDYKDSDFGAPHPQVQSVRRIRDMQW----</p>

990	N	34.68	<p><b>1h4aX (173)</b></p> <p>TM-align: aliSize=89 (resi) RMSD=1.79 (Å)  gkItlyedrgfgrhyecssdhpnlqpylsrcnsarvdsgecmlyeqpnysglqyflhradyadhqwmglssdsvrscrli pbs-----lnpkiiii feqenfqghshelngpcpniketgvekagsvlvqagppwgyeqanckgeqfvfekgeyprwdswtssrrtdsisslrpi kvdsQEHKILYENPNFTK</p> <p>MIEFT-ECSCLODRFRFNEIHSLNLEISWVLELSNYRCROYLIMPEDYRRYQDWGATNARVGLRRVIIFS-  KMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRDMQW</p> <p><b>2b2A (181)</b></p> <p>SARST: aliSize=166 (resi) RMSD=16.42 (Å)  g---KITYEDRGFOCRHYECSSDHPNLOPYL SRCNSARVDSGCMLEOPNYSLOYFLHRDYADHOOM---MGLSDSVRSCCLPHSG-SHRIRYEREDYRQOM-IEFTEFCSCLODR-FRfnETHSLNLEISWVLELSNYRCROYLIMPEDYRRYQDWGATNARVGLRRVI----idfs  -lnpkIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw----</p> <p>BLAST: aliSize=92 (resi) iden=35.84% (62/173) simi=53.18% (92/173)  g---KITYEDRGFOCRHYECSSDHPNLOPYL SRCNSARVDSGCMLEOPNYSLOYFLHRDYADHOOMMG--LSDSVRSCCLPHSGSHRIRYEREDYRQOMIEFTEFCSCLODRFRFNEIHSLNLEISWVLELSNYRCROYLIMPEDYRRYQDWGATNARVGLRRVI---fs  -lnpkIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRmqw--</p> <p>Proposed: aliSize=171 (resi) RMSD=1.23 (Å)  1nPKIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRmqw--</p>
991	C	34.50	<p><b>2jdgA (171)</b></p> <p>TM-align: aliSize=87 (resi) RMSD=1.49 (Å)  --GSIIFLEDRAFOCRHYGCTTDCPNLOPY-FSRCNSIVVQSCCMIIYERPNOYHOYFLRRGEYDYOOVMG-L-SDSIRSCCLPPHSGAvmrkivdrdelreagmseltdclsvadrflhteihslnvlegswilvempnvreravllrnpgevrrfldwgapnakvslrrvm-----  1nPKIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw--</p> <p>kmeiiddvpsfhahgyqekvssvrvgsgtwgyqygyrglqylllekdykdsdfgaphpqvsvrrirdmqw</p> <p><b>1ytqA (181)</b></p> <p>SARST: aliSize=168 (resi) RMSD=16.07 (Å)  g---SIFLEDRAFOCRHYGCTTDCPNLOPY-FSRCNSIVVQSCCMIIYERPNOYHOYFLRRGEYDYOOVMG--MGLSDSIRSCCLPPHSGAYRMKIYDRDELRCOMSEL-TDCLSVODrFHLTEIHSLNLEISWVLELSNYRCROYLIMPEDYRRYQDWGATNARVGLRRVI----m  -lnpkIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw-</p> <p>BLAST: aliSize=95 (resi) iden=34.50% (59/171) simi=55.56% (95/171)  gs---SIFLEDRAFOCRHYGCTTDCPNLOPY-FSRCNSIVVQSCCMIIYERPNOYHOYFLRRGEYDYOOVMG--LSDSIRSCCLPPHSGAYRMKIYDRDELRCOMSEL-TDCLSVODRFHLTEIHSLNLEISWVLELSNYRCROYLIMPEDYRRYQDWGATNARVGLRRVI----m  --lnpkIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw-</p> <p>Proposed: aliSize=171 (resi) RMSD=1.29 (Å)  1nPKIIIFEQENFOGHSHELNGPCPNLKETgVEKAGSVLQAQFPVVGVEQANCKGEQFVFEKGEYPRWDSWTSsRRTDLSLSLRPKVDSQEHKILYENPNFTKMKMEVIdDDVPSFHAHGYQEKVSSVRVQSCTVVGQYPGYRGLLOYLLEKGDYKDSGDFGAPQPOVQSVRRIRdmqw</p>
992	C	12.36	<p><b>1ez3B (124)</b></p> <p>TM-align: aliSize=68 (resi) RMSD=2.49 (Å)  drfmdeffeqvEETRGFIDKIAENVVEVKRKHSAIAspNPDEKTKEELEELMSDIKKTANKVRSKLSIEQSIeQeEgLnR-SSadlrirkqhtslsrkfvevmseynatqsdyerckgriq-----  -----DPFQOVVKDTKEQLNRINNYI TRHN-T-AGDDQEEIEQDILKDVETIVDLDRSIVMKRDENEDV-S--gRE-----aqvknikqldalklrfdr</p> <p><b>2c5jB (89)</b></p> <p>SARST: aliSize=86 (resi) RMSD=20.39 (Å)  drfmdeffeqveir-GIDKIAENVVEVKRKHSAIAspNPDEKTKEELEELMSDIKKTANKVRSKLSIEQSIeQeEgLnRssadlrirkqhtslsrkfvevmseynatqsdyerckgriq  -----dPFQOVVKDTKEQLNRINNYI TRHNTAGDDQEEIEQDILKDVETIVDLDRSIVMKRD-----ENEDVSGREAQVKNIKQQLDALKLRFdr-----</p> <p>BLAST: aliSize=30 (resi) iden=14.61% (13/89) simi=33.71% (30/89)  drfmdeff-----EIVVEETRGFIDKIAENVVEVKRKHSAIAspNPDEKTKEELEELMSDIKKTANKVRS-KLK----sieqsieqEgLnRssadlrirkqhtslsrkfvevmseynatqsdyerckgriq  -----dpfqovvkdtkelqnrinnyi trhntagddqeeIEQDILKDVETIVDLDRSIVMKR-DE--NEDVSGREAQVKNIKQQLDAIKLrfdr-----</p> <p>Proposed: aliSize=76 (resi) RMSD=1.59 (Å)  drfmdeffeqveirgfIdkIAENVVEVKRKHSAIAspNPDEKTKEELEELMSDIKKTANKVRSKLSIEQSIeQeEgLnRssadlrirkqhtslsrkfvevmseynatqsdyerckgriq  -----D-PFQOVVKDTKEQLNRINNYI trhntagddqeeIEQDILKDVETIVDLDRSIVMKRDENEDVSGREAQV-----KNIKQQLDALKLRFDR-----</p>

993	<p>1lvfA (106)</p> <p>2c5jB (89)</p>	C	22.47	<p><b>TM-align:</b> aliSize=67 (resi) RMSD=2.99 (Å)  edpffvkvGEV[KAVNTAQGLFQFWTELLQ--G-PSAA-TREEIDWTTNELRNNLRSIEWDLEDLDETISIVEANPRKfnldatelsirkafitstrqivrdmkdqmsas-----  -----DPPFQ[VVKDKTKEQLNRINNYITrhNtAGDDdQEEEIQDILKDVVEETIVDLDRSIVMKRDENEDV-SGREAQ-----vknkqqldaklrfdr</p> <p><b>SARST:</b> aliSize=86 (resi) RMSD=17.51 (Å)  edpffvkv-GEV[KAVNTAQGLFQFWTELLQGPSAATREEIDWTTNELRNNLRSIEWDLEDLDETISIVEANPRKfnldATELSIRKAFITSTRQIVR--mkdqmsas  -----dPPFQ[VVKDKTKEQLNRINNYITRHNTAGDDdQEEEIQDILKDVVEETIVDLDRSIVMKRDENEDVSG---REAQVKNIKQQLDALKLRFrr-----</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=24.72% (22/89) simi=37.08% (33/89)  eDPPFFV[KGEVOKAVNTAQGLFQFWTELLQGPSAATREEIDWTTNELRNNLRSIEWDLEDLDETISIVEANPR--fnLDATEL-----sirkafitstrqivrdmkdqmsas  -DPPFQ[VVKDKTKEQLNRINNYITRHNTAGDDdQEEEIQDILKDVVEETIVDLDRSIVMKRDENEDVSGREAQVKNIKQQLDALKLRFdr-----</p> <p><b>Proposed:</b> aliSize=88 (resi) RMSD=1.90 (Å)  eDPPFFV[KGEVOKAVNTAQGLFQFWTELLqgpsaatreeIDWTTNELRNNLRSIEWDLEDLDETISiveanpr--fnLDATELSIRKAFITSTRQIVRDMQMSAS  -DPPFQ[VVKDKTKEQLNRINNYITRH-NTA-----GDdQEEEIQDILKDVVEETIVDLDRSIV-----MKr--DENEDVSGREAQVKNIKQQLDALKLRFDRR</p>
994	<p>2iggA (64)</p> <p>1k51A (72)</p>	C	7.81	<p><b>TM-align:</b> aliSize=52 (resi) RMSD=2.16 (Å)  -----LTPAVTTY[LVINGKT-LKGETTTEAVDaATAEKVFKQYANDNG---VDGEWTYDDaTKtftvtekpe-----  mhhhhhHAMEEVTI[ANLIFANGSTQTAEFKGTf-EKATSEAYAYADTLKkdnGEWTVDVAD--K-----aytlnikfag</p> <p><b>SARST:</b> aliSize=59 (resi) RMSD=10.22 (Å)  lt-----PAVTTY[LVINGKTLKGETTTEAVDAATAEKVFKQYAN--DNGVDGEWTYDDaTKTFTVTEK---pe  --mhhhhhhaMEEVTI[ANLIFANGSTQTAEFKGTfEKATSEAYAYADt1KKDNGEWTVDV-ADKAYTLNIfag--</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=29.69% (19/64) simi=37.50% (24/64)  ltpavttyklvi-----NGLKGETTTTeAVDAATAEKVFKQYANDNGV--GEWTYDDATKTFIVTEK---pe  -----mhhhhhhaeevtikanlifangSTQTAEFKGTfEKATSEAYAYADTLKkdnGEWTVDVADKAYTLNIfag--</p> <p><b>Proposed:</b> aliSize=59 (resi) RMSD=2.10 (Å)  -----LTPAVTTY[LVINGKT-LKGETTTEAVDaATAEKVFKQYANDNG---VDGEWTYD-daTKTFTVTEK--pe  mhhhhhHAMEEVTI[ANLIFANGSTQTAEFKGTf-EKATSEAYAYADTLKkdnGEWTVDVAD--KAYTLNIfag--</p>
995	<p>2igdA (61)</p> <p>1k51A (72)</p>	C	14.75	<p><b>TM-align:</b> aliSize=51 (resi) RMSD=2.17 (Å)  mt-----PAVTTY[LVINGKT-LKGETTTEAVDaATAEKAFKQYANDNG--V-DGWWTYDdaTKtftvte-----  --mhhhhhhaMEEVTI[ANLIFANGSTQTAEFKGTf-EKATSEAYAYADTLKkdnGEWTVDVAD-KA-----ytlnikfag</p> <p><b>SARST:</b> aliSize=57 (resi) RMSD=8.22 (Å)  m-----TPAVTTY[LVINGKTLKGETTTEAVDAATAEKAFKQYANDNGVDGWWTYDdaTKTFTVT----e  -mhhhhhhaMEEVTI[ANLIFANGSTQTAEFKGTfEKATSEAYAYADt1KKDNGEWTVDVAD--KAYTLNIfag-</p> <p><b>BLAST:</b> aliSize=16 (resi) iden=22.95% (14/61) simi=26.23% (16/61)  mtpavttyklvingktlk-----TETITKAVDAATAEKAFKQYANDNG--V-DGWWTYDdaTKTFTVTEK---pe  -----mhhhhhhaeevtikanlifangSTQTAEFKGTfEKATSEAYAYADTLKkdnGEWTVDVADKAYTLNIfag--</p> <p><b>Proposed:</b> aliSize=58 (resi) RMSD=2.02 (Å)  mt-----PAVTTY[LVINGKT-LKGETTTEAVDaATAEKAFKQYANDNG--V-DGWWTYDdaTKTFTVTEK---pe  --mhhhhhhaMEEVTI[ANLIFANGSTQTAEFKGTf-EKATSEAYAYADTLKkdnGEWTVDVADKAYTLNIfag--</p>

996	<p>1mhhE (63)</p> <p>1k51A (72)</p>	C	58.73	<p>TM-align: aliSize=53 (resi) RMSD=1.43 (Å)  -----EVTIKVNLIFADGKIQTAEFKGTFEATAEAYRYAALLAVNGEWTADLEDGgNhmnikfagk-----  mhhhhhameEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKIDNGEWTVDVADK-A-----ytlnikfag</p> <p>SARST: aliSize=57 (resi) RMSD=8.50 (Å)  e-----VTIKVNLIFADGKIQTAEFKGTFEATAEAYRYAALLAVNGEWTADLEDgGNHMNIKF----agk  -mhhhhhameEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKIDNGEWTVDVA--DKAYTLNIkfag---</p> <p>BLAST: aliSize=48 (resi) iden=68.25% (43/63) simi=76.19% (48/63)  -----EVTIKVNLIFADGKIQTAEFKGTFEATAEAYRYAALLAVNGEWTADLEDGGNHMNIKFAGk  mhhhhhameEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKIDNGEWTVDVADKAYTLNIKFAG-</p> <p>Proposed: aliSize=62 (resi) RMSD=0.93 (Å)  -----EVTIKVNLIFADGKIQTAEFKGTFEATAEAYRYAALLAVNGEWTADLEDGGnHMNIKFAGK  mhhhhhameEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKIDNGEWTVDVADKA-YTLNIKFAG</p>
997	<p>1kh0A (65)</p> <p>1k51A (72)</p>	C	78.46	<p>TM-align: aliSize=55 (resi) RMSD=1.34 (Å)  -----EEVTTIKANLIFANGSTQTAEFKGTKEKALSEVLAYADTLKKDNGEWTIIDKRVTNGViiIlnikfag-----  mhhhhhhamEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADK-A-----ytlnikfag</p> <p>SARST: aliSize=61 (resi) RMSD=12.21 (Å)  e-----EVTIKANLIFANGSTQTAEFKGTKEKALSEVLAYADTLKKDNGEwtIDKRVTNGViiIlnikfag-g  -mhhhhhameEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGE--WTVDVADKAYTLNIKFAG-</p> <p>BLAST: aliSize=54 (resi) iden=80.00% (52/65) simi=83.08% (54/65)  -----EEVTTIKANLIFANGSTQTAEFKGTKEKALSEVLAYADTLKKDNGEWTIIDKRVTNGViiIlnikfag  mhhhhhhamEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLNIKFAG</p> <p>Proposed: aliSize=63 (resi) RMSD=0.86 (Å)  -----EEVTTIKANLIFANGSTQTAEFKGTKEKALSEVLAYADTLKKDNGEWTIIDKRVTNgviiIlnikfag  mhhhhhhamEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKA--YTNIKFAG</p>
998	<p>1hz6B (63)</p> <p>1k51A (72)</p>	C	98.41	<p>TM-align: aliSize=53 (resi) RMSD=1.21 (Å)  -----EEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKgytlnikfag-----  mhhhhhhamEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADK-----aytlnikfag</p> <p>SARST: aliSize=60 (resi) RMSD=11.74 (Å)  ee-----VTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKGYTLNIKFAG-g  --mhhhhhameEVTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLNIKFAG-g-</p> <p>BLAST: aliSize=62 (resi) iden=98.41% (62/63) simi=98.41% (62/63)  -----EEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKGYTLNIKFAG  mhhhhhhamEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLNIKFAG</p> <p>Proposed: aliSize=63 (resi) RMSD=1.29 (Å)  -----EEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKGYTLNIKFAG  mhhhhhhamEEVTTIKANLIFANGSTQTAEFKGTFEKATSEAYAYADTLKKDNGEWTVDVADKAYTLNIKFAG</p>

999	<p>1le4A (139)</p> <p>low6A (134)</p>	N	11.94	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=3.02 (Å)  qrwelaigrfw-----DYI-RWVqtIseqVqeeLlssqVtqELRALMDETmKEIKAYKSELEEQL-TPVaeEETRARLSKELQAAQARLGADMEDVRGRVqRgeVqamlgqsTeelrvRLASHLRKLRKRLRDIDLQKRLAVY-----  -----nldrndkvYENVtGLVKAVIEMSSKIQP-----P-----E--EYVPMVKVGLALRLLATVDETIPLLP-ASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt</p> <p><b>SARST:</b> aliSize=118 (resi) RMSD=11.75 (Å)  q-----RWELALGRFWDYLRWVQTLSeqvqee1lssqVtQELRALMDETmKEIKAYKSELEEQL-TPVaeEETRARLSKELQAAQARLGADMEDVRGR---LVQYRGEVQAMlgqsTeelrvRLASHLRKLRKRLRDIDLQKRLAVY---lavy  -nldrndkvYENVtGLVKAVIEMSSKIQP-----APPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQML-----TAAHALAVDAKNLDDVLDQARLkmlgqt---</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=20.15% (27/134) simi=37.31% (50/134)  qrwelaigrfwdylrw-----VQTLSEQVQEE--LLSSQVtQEL---RALMDETmKEIKAYKSELEEQL-TPVaeEETRARLSKELQAAQARLGADMEDVRGRVQYRGEVqamlgqsTeelrvrlashlrklrkrllrdaddlqkrlavy  -----nldrndkvYENVtGLVKAVIEMSSKIqpappeeYvpmvkeVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQML-----TAAHALAVDAKNLDDVLDQARLkmlgqt-----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=2.31 (Å)  -----QRWELALGRFWDYLRWVQTLSeqvqee1lssqVtQELRALMDETmKEIKAYKSELEEQL-TPVaeEETRARLSKELQAAQARLGADMEDVRGRVQYRGEVqamlgqsTeelrvRLASHLRKLRKRLRDIDLQKRLAVY-----  nldrndkvYENVtGLVKAVIEMSSKIQPappee-----YVPMVKVGLALRLLATVDETIPLLP-----ASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt</p>
1000	<p>1k40A (126)</p> <p>low6A (134)</p>	N	96.83	<p><b>TM-align:</b> aliSize=107 (resi) RMSD=1.74 (Å)  ndkvYENVtGLVKAVIEMSSKIQP-----ms--SK-iQPAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt  -----nldrndkvYENVtGLVKAVIEMSSKIQP-----ms--SK-iQPAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=10.06 (Å)  ndkv-----YENVtGLVKAVIEMSSKIQP-----APPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQV-----VMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt  ---nldrndkvYENVtGLVKAVIEMSSKIqpAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVmtslqqEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt-----</p> <p><b>BLAST:</b> aliSize=125 (resi) iden=98.41% (124/126) simi=99.21% (125/126)  -----NDKVYENVtGLVKAVIEMSSKIQPAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt  nldrndkvYENVtGLVKAVIEMSSKIQPAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt</p> <p><b>Proposed:</b> aliSize=126 (resi) RMSD=1.05 (Å)  ---N--DKVYENVtGLVKAVIEMSSKIQPAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt  nldrndkvYENVtGLVKAVIEMSSKIQPAPPEEYVPMVKVGLALRLLATVDETIPLLPASTHREIEMAOKLLNSDLGELINKMKLAQQVMTSLQOEYKQMLTAAHALAVDAKNLDDVLDQARLkmlgqt</p>
1001	<p>1e87A (117)</p> <p>1oz7B (123)</p>	M	21.37	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.85 (Å)  sSSEdVVGyQRKCYFISTVKRSWTSQNAQSEH-G-ATLAVIDSEKDMNFKRYA---GREEHVGLKKEP-GHPWkwsngkefnwfnvtgs-----DKCVFLKN--TEVSSMELEKNLYWICNKIYK  -NCLPDWVSVTEGYCYKVFKERMNWADAKEFPTKQhKdGHVVSFRNSKEVDFVVISIAFpm1KNDLVWIGLTDYWRDC-----nnewsdgaqldykawdneRHCFTYKntdnQWTRRD-TWTFsfvckcA-</p> <p><b>SARST:</b> aliSize=92 (resi) RMSD=6.55 (Å)  ss--CSEdVVGyQRKCYFISTVKRSWTSQNAQSEH--GATLAVIDSEKDMNFKRYAGREE---HVGL-----KKE-----P-GHPWKW-SNGkefnwfnvtgsdkcvflkntEVSMELEKNLYWICNKIYK  --nCLPDWVSVTEGYCYKVFKERMNWADAKEFPTKQhKdGHVVSFRNSKEVDFVVISIAFpmlKndLVWIGLTDYWRDCnnewsdgaqldykawdneRHCFTYKntdnQWTRRD-TWTFsfvckcA--</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=25.64% (30/117) simi=46.15% (54/117)  sSSEdVVGyQRKCYFISTVKRSWTSQNAQSEH-G-ATLAVIDSEKDMNFKRYA---GREEHVGLKKEP-GHPWkwsngkefnwfnvtgsdkcvflknt--EVSMELEKNLYWICNKIYK  -NCLPDWVSVTEGYCYKVFKERMNWADAKEFPTKQhKdGHVVSFRNSKEVDFVVISIAFpmlKNDLVWIGLTDYWRDCnnewsdgaqldykawdneRHCFTYKntdnQWTRRD-TWTFsfvckcA--</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.65 (Å)  sSSEdVVGyQRKCYFISTVKRSWTSQNAQSEH-G-ATLAVIDSEKDMNFKRYA---GREEHVGLKKEP-GHPWkwsngkefnwfnvtgsdkcvflknt--EVSMELEKNLYWICNKIYK  -NCLPDWVSVTEGYCYKVFKERMNWADAKEFPTKQhKdGHVVSFRNSKEVDFVVISIAFpmlKNDLVWIGLTDYWRDCnnewsdgaqldykawdneRHCFTYKntdnQWTRRD-TWTFsfvckcA-</p>

1002	<p>1e87A (117)</p> <hr/> <p>lukmB (124)</p>	M	22.22	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.85 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH-G-ATLAVT DSEKDMN FLKRYAG----REEHVGLKKEP GHPwksngke fnnwfnvt g-----DKCVFLKNT---EVSSMECEKNLYWICNKPYk        --CPLGSSFDQHCYKVFEPVKNWTEAEEICMQQhKgSRLASLHSEEEAFVSKLASKalkFTSMWIGLNNPWKDC-----kwewsdnarfdyawkrrPYCTVMVVKpdr iFWFTRGCEKSVSFVCKFLT-</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=9.68 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH--GATLAVT DSEKDMN FLKRYAGR----EEHVGLKKEP GHPWkwsngke fnnwfnvt TGS DKCVFLKNT---VSSMECEKNLYWICNKPYk        ---cPLGSSFDQHCYKVFEPVKNWTEAEEICMQQhKgSRLASLHSEEEAFVSKLASKalkFTSMWIGLNNPWKDCNEWSDNARDYKAWKRRPYCTVMVVKPDR iFWFTRGCEKSVSFVCKFLt--</p> <p><b>BLAST:</b> aliSize=57 (resi) iden=27.35% (32/117) simi=48.72% (57/117)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH--GATLAVT DSEKDMN FLKRYAGRE----EEHVGLKKEP GHPW-----WS-NGK-EFNWfnvt TGS DKCVFLKNT---VSSMECEKNLYWICNKPYk        --CPLGSSFDQHCYKVFEPVKNWTEAEEICMQQhKgSRLASLHSEEEAFVSKLASKalkFTSMWIGLNNPWKDCNEWSDNARDYKAWKRRPYCTVMVVKPDR iFWFTRGCEKSVSFVCKFLt----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.67 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH-G-ATLAVT DSEKDMN FLKRYAG----REEHVGLKKEP GHPWkwsngke fnnwfnvt TGS-dKCVFLKNT---EVSSMECEKNLYWICNKPYk        --CPLGSSFDQHCYKVFEPVKNWTEAEEICMQQhKgSRLASLHSEEEAFVSKLASKalkFTSMWIGLNNPWKDCNEWSDNARDY-KAWKRRP-YCTVMVVKpdr iFWFTRGCEKSVSFVCKFLT-</p>
1003	<p>1e87A (117)</p> <hr/> <p>lukmA (131)</p>	M	24.79	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.07 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH-G-ATLAVT DSEKDMN FLKRYAG--R---E-EHVGLKKEP-G-HPwksngke fnnwfnvt g-----SDKCVFLKN---EVSSMECEKNLYWICNKPYk        -DCPSDWTADQHCYLAIGEPQNYEAERFCTEQAKdGHVLSIQSREEGNFVAQLVSGfMhrs iYVWIGLRDRReEqQC-----npewndgskiiyvnwkegESKMQGTKwtNfhDWNINCELDYPFVCKFSA-</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=9.22 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH--GATLAVT DSEKDMN FLKRYAGR----KRYAGRE-EHVGLKKEP-G-HPWkwsngke fnnwfnvt TGS DKCVFLKN---TEVSSMECEKNLYWICNKPYk        --dCPSDWTADQHCYLAIGEPQNYEAERFCTEQAKdGHVLSIQSREEGNFVAQLVSGfMhrs iYVWIGLRDRReEqQCENPNDISKI IYVNWKEGESKMQGTKwtNfhDWNINCELDYPFVCKFSA--</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=31.62% (37/117) simi=54.70% (64/117)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEHGAT--LAVT DSEKDMN FLKRYAGR----REEHVGLKKEP-G-HPWkwsngke fnnwfnvt TGS DKCVFLKN---EVSSMECEKNLYWICNKPYk        --dCPSDWTADQHCYLAIGEPQNYEAERFCTEQAKdGHVLSIQSREEGNFVAQLVSGfMhrs iYVWIGLRDRReEqQCENPNDISKI IYVNWKEGESKMQGTKwtNfhDWNINCELDYPFVCKFSA-----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.60 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEH-G-ATLAVT DSEKDMN FLKRYAG--R---E-EHVGLKKEP-G-HPWkwsngke fnnwfnvt TGS DKCVFLKN---EVSSMECEKNLYWICNKPYk        -DCPSDWTADQHCYLAIGEPQNYEAERFCTEQAKdGHVLSIQSREEGNFVAQLVSGfMhrs iYVWIGLRDRReEqQCENPNDISKI IYVNWKEGESKMQGTKwtNfhDWNINCELDYPFVCKFSA-</p>
1004	<p>1e87A (117)</p> <hr/> <p>luexA (125)</p>	M	26.50	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.76 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVT DSEKDMN FLKRYAG-----R-EEHVGLKKEP GHPwksngke fnnwfnvt g-----SDKCVFLK-N-TEVSSMECEKNLYWICNKPYk        -GCLPDWSSYKGHCKVFKKVGTVEDA EKFCVENSGLHLSIDSKEEADVTKLASqt ltkFvYDAWIGLRDESKT-----qqcspqawtdgssvvyendePTKCFGdVhtEYRTWTDLPGEKNPFICKS----</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=8.79 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVT DSEKDMN FLKRYAG-----GREEHVGLKKEP GHPW---KWSNGKEFNWfnvt TGS DKCVFLKN---TEVSSMECEKNLYWICNKPYk        --gCLPDWSSYKGHCKVFKKVGTVEDA EKFCVENSGLHLSIDSKEEADVTKLASqt ltkFvYDAWIGLRDESKTQQCSPQWTDGSSVYVY-ENVDEPTKCFGdVhtEYRTWTDLPGEKNPFICKS----</p> <p><b>BLAST:</b> aliSize=60 (resi) iden=31.62% (37/117) simi=51.28% (60/117)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVT DSEKDMN FLKRYAGRE-----EEHVGLKKEP GHPW---HPWkwsngke fnnwfnvt TGS DKCVFLKN---SSMECEKNLYWICNKPYk        --gCLPDWSSYKGHCKVFKKVGTVEDA EKFCVENSGLHLSIDSKEEADVTKLASqt ltkFvYDAWIGLRDESKTqqCSPQWTDGSSVYVY-ENVDEPTKCFGdVhtEYRTWTDLPGEKNPFICKS-----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.64 (Å)        ssc-SEDVVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVT DSEKDMN FLKRYAG-----R-EEHVGLKKEP GHPW---HPWkwsngke fnnwfnvt TGS DKCVFLK-N-TEVSSMECEKNLYWICNKPYk        -GCLPDWSSYKGHCKVFKKVGTVEDA EKFCVENSGLHLSIDSKEEADVTKLASqt ltkFvYDAWIGLRDESKTqqCSPQWTDGSSVYVY-ENVDEPTKCFGdVhtEYRTWTDLPGEKNPFICKS----</p>

1005	<p>1e87A (117)</p> <hr/> <p>1j34B (123)</p>	M	23.08	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.80 (Å)  sSSEDVVG YQRKCYFISTVKRSWTSQNAACSEH-G-ATLAVIDSEKDMNFKRYAG---REEHVVGLKKE-PGHPwkwsngkefnnwfnvtgs-----DKCVFLK-NT-EVSSMECEKNLYWICNKPYk  -DGPSWSSYEGHCYKPFSEPKNWADAENFCTQqhAgGHLVVSFOSSEEADFFVVKLAFqtfgHSIFWGLSNVwNQC-----wqwsnaamlrykawAeSYCVYFksTNkWRRAIRMAQFVCEfQA-</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.02 (Å)  ssc--SEDVVG YQRKCYFISTVKRSWTSQNAACSEH--GATLAVIDSEKDMNFKRYA----REEHVVGLKkepG---HPWKSNGKEFNnwfnvTGSDKC---VFLKNT--VSSMECEKNLYWICNKPY-k  ---dcPSDWSSYEGHCYKPFSEPKNWADAENFCTQqhAgGHLVVSFOSSEEADFFVVKLAFqtfgHSIFWGLSNVwNQCWQWSNAAMLR-----YKAWAeSycYFSTNkWRRAIRMAQFVCEfQA--</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=27.35% (32/117) simi=43.59% (51/117)  ss--SEDVVG YQRKCYFISTVKRSWTSQNAACSEH--GATLAVIDSEKDMNFKRYA----REEHVVGLKKEPGH-PWKSNGK---EFNNfnvTGSDKCVFLK--NTEVSSMECEKNLYWIC----nkpyk  --dCPSDWSSYEGHCYKPFSEPKNWADAENFCTQqhAgGHLVVSFOSSEEADFFVVKLAFqtfgHSIFWGLSNVwNQCWQWSNAAMLRKYA---AEESYCVYFkstNKWRRAIRMAQFVCEfqa-----</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.62 (Å)  sSSEDVVG YQRKCYFISTVKRSWTSQNAACSEH-G-ATLAVIDSEKDMNFKRYAG---REEHVVGLKKEP-GHPWKSNGKEFNnwfnvTG-SdKCVFL-KNT-EVSSMECEKNLYWICNKPYk  -DGPSWSSYEGHCYKPFSEPKNWADAENFCTQqhAgGHLVVSFOSSEEADFFVVKLAFqtfgHSIFWGLSNVwNQCWQWSNAAMLR-YKAWAeS-YCVYFkSTNkWRRAIRMAQFVCEfQA-</p>
1006	<p>1e87A (117)</p> <hr/> <p>1jwiB (123)</p>	M	19.66	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.54 (Å)  sSSEDVVG YQRKCYFISTVKRSWTSQNAACSEH-G-ATLAVIDSEKDMNFKRYAG---REEHVVGLKKE-PGHPwkwsngkefnnwfnvtgs-----DKCVFLKNT--EVSSMECEKNLYWICNKPYk  -GCLPDWSSYKGHCKVFKVEKTWADA EKFKELvngGHLMSVNSREEGEFISKLALEkmrIVLVWIGLSHFWRIC-----plrwtgdarldyralsdePICFVAESFhnKWIQWTNRKKSfVCKYRV-</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=8.93 (Å)  ss--SEDVVG YQRKCYFISTVKRSWTSQNAACSEH--GATLAVIDSEKDMNFKRYAG---EEHVVGLKKE-PGHPWKSNGKEFNnwfnvTGSDKCVFLK--NTEVSSMECEKNLYWICNKPY-k  --gCLPDWSSYKGHCKVFKVEKTWADA EKFKELvngGHLMSVNSREEGEFISKLALEkmrIVLVWIGLSHFWRICPLRWTDAARLD--YRALSDEPICFVAESfHNKWIQWTNRKKSfVCKYRV--</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=24.79% (29/117) simi=45.30% (53/117)  ss--SEDVVG YQRKCYFISTVKRSWTSQNAACSEH--GATLAVIDSEKDMNFKRYAG---EEHVVGLKKE-PGHPWKSNGKEFNnwfnvTGSDKCVFLK--NTEVSSMECEKNLYWICNKPY-k  --gCLPDWSSYKGHCKVFKVEKTWADA EKFKELvngGHLMSVNSREEGEFISKLALEkmrIVLVWIGLSHFWRICPLRWTDAARLD--YRALSDEPICFVAESfHNKWIQWTNRKKSfVCKYRV--</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.67 (Å)  sSSEDVVG YQRKCYFISTVKRSWTSQNAACSEH-G-ATLAVIDSEKDMNFKRYAG---REEHVVGLKKE-PGHPWKSNGKEFNnwfnvTGSDKCVFLKNT--EVSSMECEKNLYWICNKPYk  -GCLPDWSSYKGHCKVFKVEKTWADA EKFKELvngGHLMSVNSREEGEFISKLALEkmrIVLVWIGLSHFWRICPLRWTDAARLDYRALSDEPICFVAESFhnKWIQWTNRKKSfVCKYRV-</p>
1007	<p>1e87A (117)</p> <hr/> <p>1v4IB (125)</p>	M	22.22	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=1.72 (Å)  -SSSEDVVG YQRKCYFISTVKRSWTSQNAACSEH-G-ATLAVIDSEKDMNFKRYAG---REEHVVGLKKEPGHPwkwsngkefnnwfnvtgs-----DKCVFLK-NT-EVSSMECEKNLYWICNKPYk  gFCPLGSSYDEHCYQVFOQMNWEDA EKFKCTQqhRgSHLVSFHSSEEVDFFVSKTSpilkHDFVWGLSNVWNEC-----akewsdgtklDYKawsggSDCITStTDnQWLSMDCSSKRIVVCKfQA-</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.61 (Å)  sscsed-----VVG YQRKCYFISTVKRSWTSQNAACSEH--GATLAVIDSEKDMNFKR---YAGREEHVVGLKkepG---HPWKSNGKEFNnwfnvTGSDKC-VFLKNT--VSSMECEKNLYWICNKPY-k  -----gfcplgSSYDEHCYQVFOQMNWEDA EKFKCTQqhRgSHLVSFHSSEEVDFFVSKTSpilkHDFVWGLSNVWNEC-----YKAWSGQSDCITStTDnQWLSMDCSSKRIVVCK-fQA-</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=27.35% (32/117) simi=47.01% (55/117)  ss---SEDVVG YQRKCYFISTVKRSWTSQNAACSEH--GATLAVIDSEKDMNFKRYAG---REEHVVGLKKEPGHPWKSNGK---EFNNWfnvTGSDKCVFLKNT-EVSSMECEKNLYWIC----nkpyk  --gfcPLGSSYDEHCYQVFOQMNWEDA EKFKCTQqhRgSHLVSFHSSEEVDFFVSKTSpilkHDFVWGLSNVWNEC-----YKAWSGQSDCITStTDnQWLSMDCSSKRIVVCKfqa-----</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.81 (Å)  -SSSEDVVG YQRKCYFISTVKRSWTSQNAACSEH-G-ATLAVIDSEKDMNFKRYAG---REEHVVGLKKEPGHPWKSNGKEFNnwfnvTGSDKCVFL-KNT-EVSSMECEKNLYWICNKPYk  gFCPLGSSYDEHCYQVFOQMNWEDA EKFKCTQqhRgSHLVSFHSSEEVDFFVSKTSpilkHDFVWGLSNVWNEC-----YKAWSGQSDCITStTDnQWLSMDCSSKRIVVCKfQA-</p>



1008	<p><b>1e87A (117)</b></p> <hr/> <p><b>liodA (129)</b></p>	M	23.08	<p><b>TM-align: aliSize=95 (resi) RMSD=1.80 (Å)</b>  sSCEdVVGyQRKCYFISTVKRSWTSQNACSEH-G-ATLAVTDSKDMNFKRYAG---RE---EHVGLKKEP---GHPwkwngkefnwfnvtg-----SDKCVFLKN-1---EVSSMECEKNLYWICNKpyk  -DSSGSSSEGHCKVFKQSKTADAESFETKQvNgGHLVSESSGEADFVGLIAqkiKSakiHVVIGLRAQnkekqCS-----ewsdgssisyenwieeESKCLGVHIEtghfKWENFYCEQDPFVCEA---</p> <p><b>SARST: aliSize=106 (resi) RMSD=10.35 (Å)</b>  ss-CSEdVVGyQRKCYFISTVKRSWTSQNACSEH--GATLAVTDSKDMNFKRYAGREEHWVGLKKEPGHPW-----KWSNGKEFNnwfnvtGSD-----KCVFLKNT---EVSSMECEKNLYWICN-kpyk  --dCSSGSSSEGHCKVFKQSKTADAESFETKQvNgGHLVSESSGEADFVGLIAQKIKSAKIHWVIGLRAQnkekqcsiEWSGSSIS-----YENWIEEskKCLGVHIEtghfKWENFYCEQDPFVCEA---</p> <p><b>BLAST: aliSize=59 (resi) iden=28.21% (33/117) simi=50.43% (59/117)</b>  ss-CSEdVVGyQRKCYFISTVKRSWTSQNACSE--HGATLAVTDSKDMNFKRYAGREEH-VVGLK---KEPGHPWWSNGKE--FNNWFNVTGSDKCVFLK-N-EVSSME---CEKNLYWIC--nkpyk  --dCSSGSSSEGHCKVFKQSKTADAESFETKqNCGHLVSESSGEADFVgqliaQKIKSAKIHWVIGLRaQnKEKQCSIEWSGSSISYENWIEEESKCLGVHIEtghfKWENFYCEQDPFVCEA-----</p> <p><b>Proposed: aliSize=111 (resi) RMSD=1.50 (Å)</b>  sSCEdVVGyQRKCYFISTVKRSWTSQNACSEH-G-ATLAVTDSKDMNFKRYAG---RE---EHVGLKKEP---GHPwKWSNGKEFNwfnvtGSDKCVFLKN-1---EVSSMECEKNLYWICNKpyk  -DSSGSSSEGHCKVFKQSKTADAESFETKQvNgGHLVSESSGEADFVGLIAqkiKSakiHVVIGLRAQnkekqCSI-EWSGSSIS-YENWIEEESKCLGVHIEtghfKWENFYCEQDPFVCEA---</p>
1009	<p><b>1e87A (117)</b></p> <hr/> <p><b>luosA (133)</b></p>	M	26.50	<p><b>TM-align: aliSize=98 (resi) RMSD=1.92 (Å)</b>  sSCEdVVGyQRKCYFISTVKRSWTSQNACSEHG--ATLAVTDSKDMNFKRYAG---R---EEHWVGLKKEPGHPwkwngkefnwfnvtg-----SDKCVFLKN-1---EVSSMECEKNLYWICNKPYK-  -HCPSDWYYDQHCYRFNEEMNVEDAEWFWTKQakGHLVSKSAKEADFAWMVTQnieEsfSHVSIGLRVQNKKE-----kqcsstkwsdgsvsydnldlyITKCSLLKKeTgfrKWFVASCIGKIPFVCKFPQC</p> <p><b>SARST: aliSize=110 (resi) RMSD=9.32 (Å)</b>  ss-CSEdVVGyQRKCYFISTVKRSWTSQNACSEH--GATLAVTDSKDMNFKRYAGREE-----HWVGLKKEPGHPW---PWKWSNGKEFNwfnvtGSD---KCVFLKNT---EVSSMECEKNLYWICNKPY--k  --hCPSDWYYDQHCYRFNEEMNVEDAEWFWTKQakGHLVSKSAKEADFAWMVTQnieEsfshVSIGLRVQNKKEKqcsTKWSGSSVS--YDNLldlyITKC--SLKKEtGfrKWFVASCIGKIPFVCKFPqc-</p> <p><b>BLAST: aliSize=50 (resi) iden=27.35% (32/117) simi=42.74% (50/117)</b>  ss-CSEdVVGyQRKCYFISTVKRSWTSQNACSEH--GATLAVTDSKDMNFKRYAGR---EEHW---VGLK---KEPGHPWWSNGKE--EFNNWFNVTGSDKCVFLK-----ntevssmeceknlywcnkpyk  --hCPSDWYYDQHCYRFNEEMNVEDAEWFWTKQakGHLVSKSAKEADFAWMVTQnieEsfshVSIGLRVqNKEKQCSSTKWSGSSVSyDNLldlyITKCSLLKketgfrkrfwvascigkipfvckfpqc-----</p> <p><b>Proposed: aliSize=114 (resi) RMSD=1.58 (Å)</b>  sSCEdVVGyQRKCYFISTVKRSWTSQNACSEHG--ATLAVTDSKDMNFKRYAG-----rEEHWVGLKKEPG---HPWkWSNGKEFNwfnvtGSDKCVFLKN-1---EVSSMECEKNLYWICNKPYK-  -HCPSDWYYDQHCYRFNEEMNVEDAEWFWTKQakGHLVSKSAKEADFAWMVTQnieEsfSHVSIGLRVQNKKEKqcsTKWSGSSVSyDNLldlyITKCSLLKKeTgfrKWFVASCIGKIPFVCKFPQC</p>
1010	<p><b>1e87A (117)</b></p> <hr/> <p><b>lj34A (129)</b></p>	M	21.37	<p><b>TM-align: aliSize=95 (resi) RMSD=1.74 (Å)</b>  sSCEdVVGyQRKCYFISTVKRSWTSQNACSEH-G-ATLAVTDSKDMNFKRYAG---R---EEHWVGLKKEP-E-P--GHPwkwngkefnwfnvt-----GSDKCVFLKN-1---EVSSMECEKNLYWICNKpyk  -DCPGSSSEGHCKPFLYKTDDAERFTEQaKgGHLVSESSAGEADFVAQLVTeniqtKSYVWIGLRVqGkEkqC-----ssewsdgssvsyenwieeESKTLGLEKtGfrKWNLYCGQONPFVCEA---</p> <p><b>SARST: aliSize=109 (resi) RMSD=8.85 (Å)</b>  ss-CSEdVVGyQRKCYFISTVKRSWTSQNACSEH--GATLAVTDSKDMNFKRYAG-----REEHWVGLKkePGHPWWSNGKEFNwfnvtGSD-----KCVFLKN---TEVSSMECEKNLYWICN-kpyk  --dCPGSSSEGHCKPFLYKTDDAERFTEQakGHLVSESSAGEADFVAQLVTeniqtKSYVWIGLR--VQGEKQCSSEWSGSSVSyENWIEaESKTLGLEKtGfrKWNLYCGQONPFVCEA---</p> <p><b>BLAST: aliSize=48 (resi) iden=24.79% (29/117) simi=41.03% (48/117)</b>  ss-CSEdVVGyQRKCYFISTVKRSWTSQNACSEH--GATLAVTDSKDMNFKRYA-----GREEH-VVGLK---KEPGHPWWSNGKE--FNNWFNVTGSDKCVFLK-N-----evssmeceknlywcnkpyk  --dCPGSSSEGHCKPFLYKTDDAERFTEQakGHLVSESSAGEADFVAQLVTeniqtKSYVWIGLRvqgKEKQCSSEWSGSSVSyENWIEAE-SKTLGLEKtGfrkwnlycgqonpfvcea-----</p> <p><b>Proposed: aliSize=109 (resi) RMSD=1.50 (Å)</b>  sSCEdVVGyQRKCYFISTVKRSWTSQNACSEH-G-ATLAVTDSKDMNFKRYAG---R---EEHWVGLKKEP-----epgHPWWSNGKEFNwfnvtGSDKCVFLKNTE---VSSMECEKNLYWICNKpyk  -DCPGSSSEGHCKPFLYKTDDAERFTEQaKgGHLVSESSAGEADFVAQLVTeniqtKSYVWIGLRVqgkEkq--CSSEWSGSSVS-YENWIEaESKTLGLEKtGfrkwnlycgqonpfvcea---</p>

1011	<p>1p4ID (122)</p> <p>1ukmA (131)</p>	M	19.67	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.12 (Å)  rgvk----YFCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI-I-P---G-NYWIIGLSYDKKKKEwawidngpsklmkiikk-MNFK-----SRGCVFLS---K-ARIEDIDCNIPYYCICGKKLdk  ----dcpsdYTAIDQHCYLAIGEPONWYEAERFTEQakdGHLVSIQSREEGNVAQLVSGfMhrsEiYVWIGLRDRRE-E-----qQCNPewndgskiiyvNwkegeSKMCQGtktwnfHDWNNINCEDLYPFVCKFSA--</p> <p><b>SARST:</b> aliSize=89 (resi) RMSD=8.04 (Å)  rgvkyw----FCYSTKCYFYFMNKTITSGCKANCOHYG--GVPILKTEDEDELKFLQRHVI-I-P---G-NYWIIGLSYDKKKKEWAWIDNG-----PSklmkiikkmfksrgcvflskariEDIDCNIPYYCICGKKLdk  ----dcpsdwTAYDQHCYLAIGEPONWYEAERFTEQakdGHLVSIQSREEGNVAQLVSGfMhrsEiYVWIGLRDRREEQCNPEWIDGSKiiyvNwkegeskmcqglktkwnfhdw-----NNINCEDLYPFVCKFSA--</p> <p><b>BLAST:</b> aliSize=53 (resi) iden=25.41% (31/122) simi=43.44% (53/122)  rgvky-----FCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI-I-P---G-NYWIIGLSYDKKKKEWAWIDNGPSKLDMKIKKMNFKSRGCVFLS---K-ARIEDIDCNIPYYCICGKKLdk  ----dcpsdYTAIDQHCYLAIGEPONWYEAERFTEQakdGHLVSIQSREEGNVAQLVSGfMhrsEiYVWIGLRDRREEQCNPEWIDGSKII-YVNWKEGESKMCQGLTWNFHDWNNINCEDLYPFVCKFSA-----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=2.10 (Å)  rgvk----YFCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI-I-P---G-NYWIIGLSYDKK--kkEW-AIDNGPSKLDMKI-KKmnfkSRGCVFLS---K-ARIEDIDCNIPYYCICGKKLdk  ----dcpsdYTAIDQHCYLAIGEPONWYEAERFTEQakdGHLVSIQSREEGNVAQLVSGfMhrsEiYVWIGLRDRREeqq--CNPEWIDGSKIIYVNWKeGE---SKMCQGtktwnfHDWNNINCEDLYPFVCKFSA--</p>
1012	<p>1p4ID (122)</p> <p>1j34B (123)</p>	M	15.57	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=1.94 (Å)  rgvk----YFCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI---PGNYWIIGLS-YDKkkKEwawidngpsklmkiikkNF-----K--SRGCVFLS-KA-RIEDIDCNIPYYCICGKKLdk  ----dcpsdYSSYEGHCYKPFSEPKNWADAENFTQqHagGHLVVSFQSSEADVVKLAfqtfgHSIFWMLSNVWN--QC-----NwqwsnaamlrykaWaeESYCYFKsTNnKWRSRARMMAQFVCEFOA--</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=9.13 (Å)  rgvky-----FCYSTKCYFYFMNKTITSGCKANCOHYG--GVPILKTEDEDELKFLQRHVI---HVIIPGNWIGLSYDKKKKEWAWIDNGPSKLDmkiikkNFKSRGCVFLSKAR--IEDIDCNIPYYCICGKKLdk  ----dcpsdYSSYEGHCYKPFSEPKNWADAENFTQqHagGHLVVSFQSSEADVVKLAfqtfgHSIFWMLSNVWNQCNSNAAMLRY----KAWAEESYCYFKSTNnKWRSRARMMAQFVCEFOA--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=14.75% (18/122) simi=24.59% (30/122)  rgvky-----FCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI---GNYWIIGLSYDKKKKEWAWIDNGPSKLDmkiikkNFKSRGCVFLSKARIEDIDCNIPYYCICGKKLdk  ----dcpsdYSSYEGHCYKPFSEPKNWADAENFTQqHagGHLVVSFQSSEADVVKLAfqtfgHSIFWMLSNVWNQCNSNAAMLRYKAWAEESYCYFKSTNnKWRSRARMMAQFVCEFOA-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.06 (Å)  rgvk----YFCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI---PGNYWIIGLSYDKKKKEWAWIDNGPSKLDMKIKK-nfkSRGCVFLS-KA-RIEDIDCNIPYYCICGKKLdk  ----dcpsdYSSYEGHCYKPFSEPKNWADAENFTQqHagGHLVVSFQSSEADVVKLAfqtfgHSIFWMLSNVWNQCNSNAAMLRYKAWAEESYCYFKSTNnKWRSRARMMAQFVCEFOA--</p>
1013	<p>1p4ID (122)</p> <p>1jwiB (123)</p>	M	16.39	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.86 (Å)  rgvk----YFCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI---PGNYWIIGLSYDKKKKEwawidngpsklmkiikkmn-----FKS--RGCVFLSKA--RIEDIDCNIPYYCICGKKLdk  ----gc1pdYSSYKGHYKVFVKVEKTWADA EKFKELVngGHLMSVNSREEGEISKLALekmrIVLVWIGLSHFWRICPLRITD GARLDY-----RALSDEPICFVAESFhnKWIQWTCNRKKS FVCKYRV--</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=8.97 (Å)  r-GVKYFCYSTKCYFYFMNKTITSGCKANCOHYG--GVPILKTEDEDELKFLQRHVIIPGNWIGLSYDKKKKEWAWIDNGPSKLDmkiikkNFKSRGCVFLS---KARIEDIDCNIPYYCICGKKLdk  -gCLPDYSSYKGHYKVFVKVEKTWADA EKFKELVngGHLMSVNSREEGEISKLALekmrIVLVWIGLSHFWRICPLRITD GARLDY-----RALSDEPICFVAESFhnKWIQWTCNRKKS FVCKYRV--</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=15.57% (19/122) simi=29.51% (36/122)  rgvky-----FCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVIIPGNWIGLSYDKKKKEWAWIDNGPSKLDMKI-----ikkmfksrgcvflskariEDIDCNIPYYCICGKKLdk  ----gc1pdYSSYKGHYKVFVKVEKTWADA EKFKELVngGHLMSVNSREEGEISKLALekmrIVLVWIGLSHFWRICPLRITD GARLDYRALSDEPICFVAESFhnKWIQWTCNRKKS FVCKYRV-----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.70 (Å)  rgvk----YFCYSTKCYFYFMNKTITSGCKANCOHYG--VPILKTEDEDELKFLQRHVI---PGNYWIIGLSYDKKKKEWAWIDNGPSKLDMKIK-kmnfkSRGCVFLSKA--RIEDIDCNIPYYCICGKKLdk  ----gc1pdYSSYKGHYKVFVKVEKTWADA EKFKELVngGHLMSVNSREEGEISKLALekmrIVLVWIGLSHFWRICPLRITD GARLDYRALSDE-----PICFVAESFhnKWIQWTCNRKKS FVCKYRV--</p>

1014	<p>1p4ID (122)</p> <p>1v4IB (125)</p>	M	17.21	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=1.89 (Å)  rgvk-----YFCYSTKCYFYIMNKTITWSGCKANQHYG--VPILKTEDEDELKFLQRHV--I-P-GNYNIGLS-YDKKKKEwawidngpsklmki kkmf-----K--SRGCVFLS-KA-RIEDIDCNIPYCYICGKkLdk  -----gfccplGSSYDEHCYQVFOQMNVEDAEKFTQQRhgSHLVSFHSSEVDFVVSktspIkhDFVVMGLSNVWNECAKEWSDGKLDYKAWSGQSDCITSKtTDnQWLSMDCSSKRYVVKFQA--</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=11.16 (Å)  rgvkyw-----FCYSTKCYFYIMNKTITWSGCKANQHY--VPIKTEDEDELKFLQRH----HVIPGNYNIGLSYDKKKKEWAIDNGPSKL-DMKI KKMNFksRGCVfIskaRIEDIDCNIPYCYICGKk-Ldk  -----gfccplGSSYDEHCYQVFOQMNVEDAEKFTQQRhSHLVSFHSSEVDFVVSktspIkhDFVVMGLSNVWNECAKEWSDGKLDYKAWSGQSDCITSKTTD----NQWLSMDCSSKRYVVKFQA--</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=27.05% (33/122) simi=44.26% (54/122)  rgvky-----YFCYSTKCYFYIMNKTITWSGCKANQHY--VPILKTEDEDELKFLQRHV--I-P-GNYNIGLS-YDKKKKEwawidngpsklmki kkmf-----K--SRGCVFLS-KA-RIEDIDCNIPYCYICGKkLdk  -----gfccplGSSYDEHCYQVFOQMNVEDAEKFTQQRhSHLVSFHSSEVDFVVSktspIkhDFVVMGLSNVWNECAKEWSDGKLDYKAWSGQSDCITSKTTD----NQWLSMDCSSKRYVVKFQA--</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.05 (Å)  rgvk-----YFCYSTKCYFYIMNKTITWSGCKANQHYG--VPILKTEDEDELKFLQRHV--I-P-GNYNIGLSYDKKKKEWAIDngpsklDMKI KKM-nfksRGCVFLS-KA-RIEDIDCNIPYCYICGKkLdk  -----gfccplGSSYDEHCYQVFOQMNVEDAEKFTQQRhgSHLVSFHSSEVDFVVSktspIkhDFVVMGLSNVWNECAKEWSDGKLDYKAWSGQSDCITSKtTDnQWLSMDCSSKRYVVKFQA--</p>
1015	<p>1p4ID (122)</p> <p>liodA (129)</p>	M	19.67	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=2.32 (Å)  rgvk----YFCYSTKCYFYIMNKTITWSGCKANQHYG--VPILKTEDEDELKFLQRHV--IPG---NYWIGLSYDKKKKEwawidngpsklmki kkmf-----K-----SRGCVFLSK-A---RIEDIDCNIPYCYICGKkLdk  ----dcssGSSYEGHCYKVFQKSKTWADAESFTKQVngGHLVSESSGADVVGQLIaqkIKSakiHVVIGLRAQNK-E-----kQCSlEwsdgsIsyehnwieeSKKCLGVHieTgfhKWENFYEQQDPFVCEA----</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.99 (Å)  rgvky-----FCYSTKCYFYIMNKTITWSGCKANQHY--VPIKTEDEDELKFLQRH----VIPGNYNIGLSYDKKKKEWAIDNGPSKL-DM--KIKKMnfksrgcVFLS-KA---RIEDIDCNIPYCYICG-kkLdk  ----dcssGSSYEGHCYKVFQKSKTWADAESFTKQVngGHLVSESSGADVVGQLIaqkIKSakiHVVIGLRAQNKekqSI-EWSDGSSISYENWIEEESKCLG-VHIETGfhKWENFYEQQDPFVCEa----</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=24.59% (30/122) simi=40.98% (50/122)  rgvky-----FCYSTKCYFYIMNKTITWSGCKANQHY--VPILKTEDEDELKFLQRHV--IPG---NYWIGLSYDKKKKEWAIDNGPSKLDMKIKKMNFksRGCVFLSKA--RIEDIDCNIPYCYICG-kkLdk  ----dcssGSSYEGHCYKVFQKSKTWADAESFTKQVngGHLVSESSGADVVGQLIaqkIKSakiHVVIGLRAQNKekqCSIEWSDGSSISYENWIEEESKCLG-VHIETGfhKWENFYEQQDPFVCEa-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.09 (Å)  rgvk----YFCYSTKCYFYIMNKTITWSGCKANQHYG--VPILKTEDEDELKFLQRHV--IPG---NYWIGLSYDKKKKEWAIDngpsklDMKIK-kmfnksRGCVFLS--KA-RIEDIDCNIPYCYICGkLdk  ----dcssGSSYEGHCYKVFQKSKTWADAESFTKQVngGHLVSESSGADVVGQLIaqkIKSakiHVVIGLRAQNKekqCSIEWSDGSSISYENWIEEESKCLG-VHIETGfhKWENFYEQQDPFVCEa----</p>
1016	<p>1r13A (145)</p> <p>1oz7B (123)</p>	M	17.07	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.74 (Å)  deelqtelyeikhqllqtMgVlslqgSMLSVGDKVFSTNGQSVNFDTIKEMCTRA-G-GNIAVPRTPPENEATAS--IAKKYNNYVYLCMIEDQTPG-Dfhyldgasvsytwnypgeprgq-----GK-EKIVEMYTD-GTWNDRGLOQYRLAVCEF--  -----N---C-LP---DWSVYEGYCYKVFKERMWADA EKFCIKQhKdSHLVSFNSKEVDFVIsIAFPMLKNDLWIGLTDYWRD-cN-----wewsdgaqldykawDNeRHFfIYKNTdNQTRDCTWTFSFVCKCpa</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=9.27 (Å)  deelqtelyeikhqllqtmgvlsiqgs-----MLSVGDKVFSTNGQSVNFDTIKEMCTRA--GNIAVPRTPPENEATASIAKKY--NNYVYLCMIEDQTPGDFHYLDGASVSYTNNY--PGEPrqgqkckVEMYTDGTWNDRGLOQYRLAV-CE--f  -----nc1pdWSVYEGYCYKVFKERMWADA EKFCIKQhKdSHLVSFNSKEVDFVIsIAFPMLKNDLWIGLTDYWRDcNWEWSGQALDYKANDNeRHF-----IYKNTdNQTRDCTWTFSFVCKCpa--</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=21.95% (27/123) simi=41.46% (51/123)  deelqtelyeikhqllqtmgvlsiqgsmllsvgd-----KVFStngQSVNFDTIKEMCTRA--GNIAVPRTPPENEATASIAKKY--NNYVYLCMIEDQTPGDFHYLDGASVSYTNNY--PGEPrqgqkckVEMYTDGTWNDRGLOQYRLAVCE---f  -----nc1pdwsyegyycyKVFK---ERMWADA EKFCIKQhKdSHLVSFNSKEVDFVIsIAFPMLKNDLWIGLTDYWRDcNWEWSGQALDYKANDNeRHF-----DNeRHFfIYKNTdNQTRDCTWTFSFVCKCpa--</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=2.03 (Å)  deelqtelyeikhqllqtM-gVlslqgSMLSVGDKVFSTNGQSVNFDTIKEMCTRA-G-GNIAVPRTPPENEATAS--IAK-KYNNYVYLCMIEDQTPGDFHYLDGASVSYTNNY--PGEPrqgqkckVEMYTD-GTWNDRGLOQYRLAVCEF--  -----N---C1--P---DWSVYEGYCYKVFKERMWADA EKFCIKQhKdSHLVSFNSKEVDFVIsIAFPMLKNDLWIGLTDYWRDcNWEWSGQALDYKANDNeRHF-----DNeRHFfIYKNTdNQTRDCTWTFSFVCKCpa</p>

1017	<p data-bbox="163 226 252 298">1r13A (145)</p> <p data-bbox="163 550 252 621">lukmB (124)</p>	M	19.35	<p data-bbox="468 178 2635 262"><b>TM-align:</b> aliSize=98 (resi) RMSD=2.23 (Å)  deeltelyeikhqilqtMgVlslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRAG--GNIAPRTPPENEAIASIAKK-Y-NYVYLCMI-E-DQTPGdfhyldgasvsytnwypgeprgq-----GKEKCVEMYTD--GTWDRGCLQYRLAVCEf--  -----C-P-----GWSFDQHCYKVFEPVKWTEAEELCMQOHkgSRLASIHSSSEAFVSKLASKaLkFTSMWIGLNaPwKDCK-----wewsdnarfdykawKRRPYCTVWVKpdrIFWFTRGCEKSVSFVCKfl t</p> <p data-bbox="468 310 2496 394"><b>SARST:</b> aliSize=109 (resi) RMSD=11.26 (Å)  deeltelyeikhqilqtmgvlsiqg----MLVGDkVFSTNGQSVNFDTIKEMCTRA--GNIAPRTPPENEAIASIAKKYnnyVYLCMIEDQTPG----DFHYLDGASVSTINWYPGEPRGgqgkeKCVEMYTDGTWN-DRGCLQYRLAVCE---f  -----cplgWSFDQHCYKVFEPVKWTEAEELCMQOHkSRLASIHSSSEAFVSKLASKA---LKFTSMWIGLNNpWkdCKWEWSNARFDYKAWKRRPYCT----VMVVKPDRIFWFTRGCEKSVSFVCKfl t-</p> <p data-bbox="468 443 2674 527"><b>BLAST:</b> aliSize=44 (resi) iden=19.35% (24/124) simi=35.48% (44/124)  deeltelyeikhqilqtmgvlsiqgsmvsgdkvfstngqsv-----NFDTIKEMCTRA--GNIAPRTPPENEAIASIAKKYNNY--VYLCMIEDQTPGDFHYLDGASVSTINWypgeprgQKKEKCVEMYTD--GTWDRGCLQYRLAVCEf--  -----cplgwsfdqhcycvfevkWTEAEELCMQOHkSRLASIHSSSEAFVSKLASKALKftSMWIGLNNPWKDKWEWSNARFDYKAW-----KRRPYCTVWVKpDRIFWFTRGCEKSVSFVCKfl t</p> <p data-bbox="468 575 2487 659"><b>Proposed:</b> aliSize=110 (resi) RMSD=1.93 (Å)  deeltelyeikhqilqtM-gvLslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRAG--GNIAPRTPPENEAIASIAKK-Y-NYVYLCMI-----edqtPGDFHYLDGASVSTINWypgeprgqGKEKCVEMYTD--GTWDRGCLQYRLAVCEf--  -----Cp-----GWSFDQHCYKVFEPVKWTEAEELCMQOHkgSRLASIHSSSEAFVSKLASKaLkFTSMWIGLNNpwk---DCKWEWSNARFDYKAWK-----RRPYCTVWVKpdrIFWFTRGCEKSVSFVCKfl t</p>
1018	<p data-bbox="163 869 252 940">1r13A (145)</p> <p data-bbox="163 1192 252 1264">lukmA (131)</p>	M	18.32	<p data-bbox="468 829 2683 913"><b>TM-align:</b> aliSize=101 (resi) RMSD=2.36 (Å)  deeltelyeikhqilqtMgVlslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRA-G-NIAPRTPPENEAIASIAKKYNN--N-VYVYLCMIEDQ--TPGdfhyldgasvsytnwypgeprg-----GQKEKCVEMYTD--GTWDRGCLQYRLAVCEf--  -----D--C-PS---DWTAYDQHCYLAIEPONWYEAERFCTEQaKdCHLVSISQSRREGNFVAQLVSGFMhrsEiYVWIGLRDRReeqQCN-----pewndgskiiyvnwkeGESKMCQGLTKwtNfhdWNNINCEDLYPFVCKf sa</p> <p data-bbox="468 961 2534 1045"><b>SARST:</b> aliSize=113 (resi) RMSD=10.13 (Å)  deeltelyeikhqilqtmgvlsiq---GSMLVGDkVFSTNGQSVNFDTIKEMCTRA--GNIAPRTPPENEAIASIAKKYNNYVYIGMIEDQTP-----GDFHYLDGASVSTINWYPGEPRGgqgkeKCVEMYTDG---TWDRGCLQYRLAVCE---f  -----dcpSDWTAYDQHCYLAIEPONWYEAERFCTEQaKdCHLVSISQSRREGNFVAQLVSGFMHRSE-IYVWIGLRdRreeqqCNPEWNGSKIIVVWKEGESK-----MCQGLTKWtNfhdWNNINCEDLYPFVCKf sa-</p> <p data-bbox="468 1094 2665 1178"><b>BLAST:</b> aliSize=53 (resi) iden=21.37% (28/131) simi=40.46% (53/131)  deeltelyeikhqilqtmgvlsiqgsmvsgdkvfstn-----QSVNFDTIKEMCTRAG--GNIAPRTPPENEAIASIAKKYNN--N-VYVYLCMIEDQ--TPGDFHYLDGASVSTINWYPGEPRGQKKEKCVEMYTDGTWDRGCLQYRLAVCEf--  -----dcpSDWTAYDQHCYLAIEPONWYEAERFCTEQaKdCHLVSISQSRREGNFVAQLVSGFMhrseiYVWIGLRDRreeqqCNPEWNGSKIIVVWKEGESKMCQGLTKWtNfhdWNNINCEDLYPFVCKf sa</p> <p data-bbox="468 1226 2510 1310"><b>Proposed:</b> aliSize=115 (resi) RMSD=1.86 (Å)  deeltelyeikhqilqtM-gvLslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRA-G-NIAPRTPPENEAIASIAKKYNN--N-VYVYLCMIEDQ--TPGDFHYLDGASVSTINWYPgeprgqGKEKCVEMYTD--GTWDRGCLQYRLAVCEf--  -----D--Cp--S---DWTAYDQHCYLAIEPONWYEAERFCTEQaKdCHLVSISQSRREGNFVAQLVSGFMhrsEiYVWIGLRDRreeqq--QCNPEWNGSKIIVVWKEG-----ESKMCQGLTKwtNfhdWNNINCEDLYPFVCKf sa</p>
1019	<p data-bbox="163 1520 252 1591">1r13A (145)</p> <p data-bbox="163 1843 252 1915">luexA (125)</p>	M	16.80	<p data-bbox="468 1480 2599 1564"><b>TM-align:</b> aliSize=102 (resi) RMSD=2.42 (Å)  deeltelyeikhqilqtMgVlslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRAGNIAPRTPPENEAIASIAKKY--N-NYVYLCMIEDQ-T--PGdfhyldgasvsytnwypgepr-----GQKKEKCVEMYTD--GTWDRGCLQYRLAVCEf  -----GCLP-----DWSYKGHYKVFVKVGTWEDA EKFCVENSCHLASIDSKEEADFVTKLASqTLtkFvYDAWIGLRDEskTqgCS-----pqwtgdgssvvyenVDEPTKCFGLDVhtEyRTWTLPGKKNPFICKS</p> <p data-bbox="468 1612 2546 1696"><b>SARST:</b> aliSize=106 (resi) RMSD=11.43 (Å)  deeltelyeikhqilqtmgvlsiqg----SMLVGDkVFSTNGQSVNFDTIKEMCTRAGNIAPRTPPENEAIASIAKKYNN--NYVYLCMIEDQ--TPGDFHYLDGASVSTINW--YPGEPRG--GQKKEKCVEMYTDGTWDR----gclqyrlavcef  -----gclpDWSYKGHYKVFVKVGTWEDA EKFCVENSCHLASIDSKEEADFVTKLASqTLtkFvYDAWIGLRDEskTQ--QCSPOWTDGSSVVENVdePTKCFGLdvHTEYRTWTLPGKKNPFicks-----</p> <p data-bbox="468 1745 2614 1829"><b>BLAST:</b> aliSize=55 (resi) iden=23.20% (29/125) simi=44.00% (55/125)  deeltelyeikhqilqtmgvlsiqgsmvsgd-----KVFSTNGQSVNFDTIKEMCTRAGNIAPRTPPENEAIASIAKKYNNYVY--N-VYVYLCMIEDQTPGDF--HYLDGASVSTINWypgeprgqgkeKCVEMYTD--GTWDRGCLQYRLAVCE-f  -----gclpdwsykgchycvfkvkv---TWEDA EKFCVENSCHLASIDSKEEADFVTKLASqTLTKFvYDAWIGLRDEskTQ--QCSPOWTDGSSVVENVdePTKCFGLDVhtEyRTWTLPGKKNPFICKS-</p> <p data-bbox="468 1877 2457 1961"><b>Proposed:</b> aliSize=113 (resi) RMSD=1.79 (Å)  deeltelyeikhqilqtM-gvLslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRAGNIAPRTPPENEAIASIAKKY--N-NYVYLCMIEDQ--TPGDFHYLDGASVSTINWypgeprgqGKEKCVEMYTD--GTWDRGCLQYRLAVCEf  -----GC1--P-----DWSYKGHYKVFVKVGTWEDA EKFCVENSCHLASIDSKEEADFVTKLASqTLtkFvYDAWIGLRDEskTqg--CSPQWTDGSSVVENVdePTKCFGLDVhtEyRTWTLPGKKNPFICKS</p>

1020	<p>1r13A (145)</p> <p>1j34B (123)</p>	M	17.07	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=2.43 (Å)  deeltelyeikhqilqtMgVlslqgSMLVGDGVFSTNGQSVNFDTIKEMCTRA-G-GNIAVPRTPPENEAIASIAKK-Y-NNYVYLCMI-EDQTPGdfhyldgasvsytnwypgeprg-----OGKEKCVEMYT-DGTWDRGCLQYRLAVCEF--  -----D--C-PS---DWSYEGHCYKPFSEPKWADAENFCTQhAgHLSVFSQSEADFFVVKLAfQtFgHSIFWMLShVWnQCNW-----qwsnaamlrykawAEESYCVYFKStNNKRSRACRMAAQFVCFEqa</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=10.71 (Å)  deeltelyeikhqilqtmgvlsiqg----SMLVGDGVFSTNGQSVNFDTIKEMCTRA--GNIAVPRTPPENEAIASIAKKYNNYVylgMIEDQTPG----DFHYLDGASVSTINWYPGEPRGgqgkckVEMYTDGTWDRGCLQYRLAVCFE---f  -----dcpSDWSYEGHCYKPFSEPKWADAENFCTQhAgHLSVFSQSEADFFVVKLAfQTFGHS---IFWMLSNVWnQCNWQWSNAAMLRKAWAEESYCV-----YFKStNNKRSRACRMAAQFVCFEfq-</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=19.51% (24/123) simi=39.02% (48/123)  deeltelyeikhqilqtmgvlsiqgsmlsvgdvfstngqsv-----NFDTIKEMCTRA--AGGNIAVPRTPPENEAIASIA--KKYNNYVY-LCMIEDQTPGDFHYLDGASVSTINWypGEprgqgkckVEMYT-DGTWDRGCLQYRLAVCFE--  -----dcpSDWSYEGHCYKPFSEPKWADAENFCTQhAgHLSVFSQSEADFFVVKLAfQTFGHSIFWMLSNVWnQCNWQWSNAAMLRKAW--AE-----ESYCVYFKStNNKRSRACRMAAQFVCFEqa</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.88 (Å)  deeltelyeikhqilqtM-gvLslqgSMLVGDGVFSTNGQSVNFDTIKEMCTRA-G-GNIAVPRTPPENEAIASIAKK-Y-NNYVYLCMI-EDQTPGDFHYLDGASVSTINWYPGEprgqgkckVEMYT-DGTWDRGCLQYRLAVCFE--  -----D---Cp--S---DWSYEGHCYKPFSEPKWADAENFCTQhAgHLSVFSQSEADFFVVKLAfQtFgHSIFWMLShVWnQC-NWQWSNAAMLRKAWAE-----SYCVYFKStNNKRSRACRMAAQFVCFEqa</p>
1021	<p>1r13A (145)</p> <p>1jwiB (123)</p>	M	15.45	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.52 (Å)  deeltelyeikhqilqtMgVlslqgSMLVGDGVFSTNGQSVNFDTIKEMCTRAG--GNIAVPRTPPENEAIASIAK--KYNKYVYLCMIED-OTPGdfhyldgasvsytnwypgeprgq-----G-KEKCVEMYTD-GTWDRGCLQYRLAVCFE--  -----G--C-LP---DWSYKGHYKVKFVKEKTWADA EKFKELVngHLSVNSRDEGEFISKLALekMRIVLWIGLSHFWRICPL-----rwdgarldyraISDEPICFVAESFhNKIQWTNRKKSfVCKYrv</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=9.40 (Å)  deeltelyeikhqilqtmgvlsiqgs----MLVGDGVFSTNGQSVNFDTIKEMCTRA--GNIAVPRTPPENEAIASIAKK-YNN-YVYLCMIEDOTPGDFHYLDGASVSTINWypGEPRGgqgkckVEMYTDGTWDRGCLQYRLAVCFE---f  -----gclpdWSYKGHYKVKFVKEKTWADA EKFKELVngHLSVNSRDEGEFISKLALekMRIVLWIGLSHFWRICPLRWTDGARLDYRALSDPIC-----FVAESFhNKIQWTNRKKSfVCKYrv-</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=16.26% (20/123) simi=26.02% (32/123)  deeltelyeikhqilqtmgvlsiqgsmlsvgd-----SFSNGQSVNfdtIEMCTRAGGNIAVPRTPPENEAIASIA--KYNKYVYLCMIEDOTPGDFHYLDGASVST-----tnwypgeprgqgkckVemytdgtwdrgrc  -----gclpdWSYKGHYKVKFVKEKTWADA EKFKELVngHLSVNSRDEGEFISKLALekMRIVLWIGLSHFWRICPLRWTDGARLDYRALSDPICfvaesfhnkiqwtcnrksfvckyrv-----  lqyrlavcef  -----</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.85 (Å)  deeltelyeikhqilqtM-gvLslqgSMLVGDGVFSTNGQSVNFDTIKEMCTRAG--GNIAVPRTPPENEAIASIAK--KYNKYVYLCMIEDO-tPGDFHYLDGASVSTINWypGenReagkckVEMYTD-GTWDRGCLQYRLAVCFE--  -----G--C1--P---DWSYKGHYKVKFVKEKTWADA EKFKELVngHLSVNSRDEGEFISKLALekMRIVLWIGLSHFWR-ICPLRWTDGARLDYRALSDP-----P-----ICFVAESFhNKIQWTNRKKSfVCKYrv</p>
1022	<p>1r13A (145)</p> <p>1v4IB (125)</p>	M	19.20	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.54 (Å)  deeltelyeikhqilqtMgVlslqgSMLVGDGVFSTNGQSVNFDTIKEMCTRA-G-GNIAVPRTPPENEAIASIAK-KYN-NYVYLCMI-E-DQTPGdfhyldgasvsytnwypgeprgq-----GKEKCVEMYT-DGTWDRGCLQYRLAVCFE--  -----G--FC--C-P---GWSYDEHCYQVFOKMWADA EKFKCTQhRgSHLSVFSHSEVDFVVKTSPIlKhDFWMLSNvWNECAK-----ewsdgkldykawsGQSDCITSKItDNQWLSMDCSSKRYVVKFqa</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=12.54 (Å)  deeltelyeikhqilqtmgvlsiqgsm-----LSVGDGVFSTNGQSVNFDTIKEMCTRA--GNIAVPRTPPENEAIASIAK--KYN-NYVYLCMIEDOTPGDFHYLDGASVSTINWYPGEPRGQGKCKVEMYTDGTWDRGCLQYRL-avcef  -----gfcplgWSYDEHCYQVFOKMWADA EKFKCTQhRgSHLSVFSHSEVDFVVKTSPIlKhDFWMLSNvWNECAKESDGTKLDYKAWsgQSDCITSKITTDNQWLSMDCSSKRYVVKFqa-----</p> <p><b>BLAST:</b> aliSize=46 (resi) iden=19.20% (24/125) simi=36.80% (46/125)  deeltelyeikhqilqtmgvlsiqgsmlsvgdvfstng-----SFSNFDTIKEMCTRA--GNIAVPRTPPENEAIASIAK--KYN-NYVYLCMIEDOTPGDFHYLDGASVSTINWypgeprgQGKCKVEMYTDGTWDRGCLQYRLAVCFE--  -----gfcplgWSYDEHCYQVFOKMWADA EKFKCTQhRgSHLSVFSHSEVDFVVKTSPIlKhDFWMLSNvWNECAKESDGTKLDYKAW-----SGQSDCITSKITTDNQWLSMDCSSKRYVVKFqa</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=2.01 (Å)  deeltelyeikhqilqtM-gvLslqgSMLVGDGVFSTNGQSVNFDTIKEMCTRA-G-GNIAVPRTPPENEAIASIAK-KYN-NYVYLCMI-----edqtPGDFHYLDGASVSTINWYPgeprgqgkckVEMYT-DGTWDRGCLQYRLAVCFE--  -----G--FC--Cp--GWSYDEHCYQVFOKMWADA EKFKCTQhRgSHLSVFSHSEVDFVVKTSPIlKhDFWMLSNvwn----ECAKESDGTKLDYKAWSG-----QSDCITSKItDNQWLSMDCSSKRYVVKFqa</p>

1023	<p><b>lr13A</b> (145)</p> <hr/> <p><b>liodA</b> (129)</p>	M	18.60	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.39 (Å)  deeltelyeikhqilqtmgVLSlqgSMLVGDkVFSTNGQSVNFDTIKEMCTRA-G-<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>-YNN---<b>YVYLCMIEDQ</b>---TPgdfhyldgasvsytnwypgeprg-----<b>QGKEKCVEMYT</b>--D-GT<b>WDRG</b>LL<b>YRLAV</b>CHF  -----DCSS----GWSYEGHCYKVF<b>KQSKTWADAESFCTKQvNg</b>HLVSI<b>ESSG</b>AD<b>FDV</b>Q<b>LIAQ</b>kIKSakiH<b>WI</b>GLRA<b>QnkeKQCS</b>-----iwsdgsissyenwi<b>EEESK</b>K<b>CLGVH</b>IetGfHK<b>ENFY</b>CE<b>QDPFV</b>CEa</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=9.27 (Å)  deeltelyeikhqilqtmgVLSlqgs-----MLVGDkVFSTNGQSVNFDTIKEMCTRA--<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>---YNNY<b>YLCMIEDQ</b>TPGDFHYLDGASVS<b>YTNWYP</b>gepr<b>GQGKEKCVEMY</b>--TD--T<b>WDRG</b>LL<b>YRLAV</b>CE-f  -----dcssgWSYEGHCYKVF<b>KQSKTWADAESFCTKQvNg</b>HLVSI<b>ESSG</b>AD<b>FDV</b>Q<b>LIAQ</b>kIKSakiH<b>WI</b>GLRA<b>QnkeKQCS</b>-<b>IEWSGSSISYENW</b>-----<b>IEESK</b>K<b>CLGVH</b>iETfHk<b>ENFY</b>CE<b>QDPFV</b>CEa-</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=24.81% (32/129) simi=43.41% (56/129)  deeltelyeikhqilqtmgVLSlqgsmlsvgd-----<b>KVFS</b>tn<b>gQSVNFDTIKEMCTRA</b>--<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>YNN---<b>YVYLCMIEDQ</b>-<b>QTPGDFHYLDGASVS</b><b>YTNWYP</b>gepr<b>gqGKEKCVEMY</b>TD--G--T<b>WDRG</b>LL<b>YRLAV</b>CE-f  -----dcssgwsyeghcy<b>KVFK</b>---<b>QSKTWADAESFCTKQvNg</b>HLVSI<b>ESSG</b>AD<b>FDV</b>Q<b>LIAQ</b>kIKSakiH<b>WI</b>GLRA<b>QnkeKQCS</b><b>IEWSGSSISYENW</b><b>IEE</b>-----<b>SKKCLGVH</b>IetGfHK<b>ENFY</b>CE<b>QDPFV</b>CEa-</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=1.94 (Å)  deeltelyeikhqilqtm-gvLslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRA<b>G-<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>-YNN---<b>YVYLCMIEDQ</b>---</b>TPGDFHYLDGASVS<b>YTNWYP</b>gepr<b>gqGKEKCVEMY</b>T--D-GT<b>WDRG</b>LL<b>YRLAV</b>CEf  -----D--Cs--S---GWSYEGHCYKVF<b>KQSKTWADAESFCTKQvNg</b>HLVSI<b>ESSG</b>AD<b>FDV</b>Q<b>LIAQ</b>kIKSakiH<b>WI</b>GLRA<b>QnkeKQCS</b><b>IEWSGSSISYENW</b><b>IEE</b>-----<b>ESKCLGVH</b>IetGfHK<b>ENFY</b>CE<b>QDPFV</b>CEa</p>
1024	<p><b>lr13A</b> (145)</p> <hr/> <p><b>lj34A</b> (129)</p>	M	19.38	<p><b>TM-align:</b> aliSize=100 (resi) RMSD=2.16 (Å)  deeltelyeikhqilqtmgVLSlqgSMLVGDkVFSTNGQSVNFDTIKEMCTRA-G-<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>-Y--N<b>YVYLCMIEDQ</b>---TPgdfhyldgasvsytnwypgeprg-----<b>QGKEKCVEMYT</b>--D-GT<b>WDRG</b>LL<b>YRLAV</b>CHF  -----D--C-PS---GWSYEGHCYK<b>PFKLYKTW</b>DAER<b>FCTEQaK</b>gHLVSI<b>ESAG</b>AD<b>FDV</b>Q<b>LVTEN</b>IqntkS<b>YWI</b>GLR<b>VQgkEkQCS</b>-----swwsdgssvsyenwi<b>EAESK</b>T<b>CLGLEK</b>EtGfRK<b>VNIY</b>CG<b>QNPV</b>CEa</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=9.03 (Å)  deeltelyeikhqilqtmgVLSlqgs-----MLVGDkVFSTNGQSVNFDTIKEMCTRA--<b>GNIAVPRTPE</b>NEA<b>IASIAKKY</b>---NN<b>YVYLCMIEDQ</b>TPGDF--<b>HYLDGASVS</b><b>YTNWYP</b>gepr<b>GQGKEKCVEMY</b>-TDG--T<b>WDRG</b>LL<b>YRLAV</b>CE-f  -----dcpsgWSYEGHCYK<b>PFKLYKTW</b>DAER<b>FCTEQaK</b>gHLVSI<b>ESAG</b>AD<b>FDV</b>Q<b>LVTEN</b>IqntkS<b>YWI</b>GLR<b>VQgkEkQCS</b><b>IEWSGSSVSYENW</b>-----<b>IEESK</b>T<b>CLGLEK</b>EtGfRK<b>VNIY</b>CG<b>QNPV</b>CEa-</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=22.48% (29/129) simi=37.21% (48/129)  deeltelyeikhqilqtmgVLSlqgsmlsvgdvfstngqsvn-----<b>FTTIKEMCTRA</b>--<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>YNN---<b>YVYLCMIEDQ</b>TPGDF--<b>HYLDGASVS</b><b>YTNWYP</b>gepr<b>gqGKEKCVEMY</b>TDG--T<b>WDRG</b>LL<b>YRLAV</b>CE-f  -----dcpsgwsyeghcykpfklykt<b>WDAERFCTEQaK</b>gHLVSI<b>ESAG</b>AD<b>FDV</b>Q<b>LVTEN</b>IqntkS<b>YWI</b>GLR<b>VQgkEkQCS</b><b>IEWSGSSVSYENW</b><b>IEESK</b>T<b>CLGLEK</b>EtGfRK<b>VNIY</b>CG<b>QNPV</b>CEa-</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.84 (Å)  deeltelyeikhqilqtm-gvLslqgSMLVGDkVFSTNGQSVNFDTIKEMCTRA<b>G-<b>GNIAVPRTPE</b>NEA<b>IASIAKK</b>-YNN---<b>YVYLCMIEDQ</b>---</b>TPGDFHYLDGASVS<b>YTNWYP</b>gepr<b>gqGKEKCVEMY</b>T--D-GT<b>WDRG</b>LL<b>YRLAV</b>CEf  -----D--Cp--S---GWSYEGHCYK<b>PFKLYKTW</b>DAER<b>FCTEQaK</b>gHLVSI<b>ESAG</b>AD<b>FDV</b>Q<b>LVTEN</b>IqntkS<b>YWI</b>GLR<b>VQgkEkQCS</b><b>IEWSGSSVSYENW</b><b>IEE</b>-----<b>ESKCLGLEK</b>EtGfRK<b>VNIY</b>CG<b>QNPV</b>CEa</p>
1025	<p><b>ltdqB</b> (126)</p> <hr/> <p><b>loz7B</b> (123)</p>	M	29.27	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.17 (Å)  eQEEG<b>TKFO</b>HCYRH<b>PDRET</b>VDAERR<b>RE</b>Q-Q-S<b>HS</b>SV<b>TPPE</b>Q<b>EFV</b>NK-NA----<b>QYQW</b>IGL<b>NDRTIEGDF</b>rwsdghslqfek<b>wrpnqpdf</b>-----<b>FATGED</b>C<b>VMIWHER</b>g<b>EW</b>ND<b>VPCNYQLP</b>FT<b>CK</b>KG-  -NCLPD<b>SVYEGY</b>CYK<b>VFKER</b>M<b>NADA</b>E<b>KFTK</b>q<b>hkd</b>g<b>HLV</b>SFR<b>NSKE</b>V<b>DFV</b>IS<b>IA</b>fpm1k<b>N</b>LV<b>WIGL</b>TD<b>YWRDCN</b>-----<b>W</b>ewsdgaqldy<b>ka</b><b>W</b>D<b>NER</b>H<b>CFI</b>Y<b>KNTD</b>N-<b>Q</b>W<b>TRRD</b>CT<b>WTFS</b>V<b>CK</b>C<b>Pa</b></p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=9.62 (Å)  eqc--EEG<b>TKFO</b>HCYRH<b>PDRET</b>VDAERR<b>RE</b>Q--<b>Q</b>S<b>HS</b>SV<b>TPPE</b>Q<b>EFV</b>NK----<b>AQYQW</b>IGL<b>NDRTIEGDF</b>R<b>WSD</b>GH<b>S</b>Q<b>FEK</b>WR--<b>PNQ</b>pdf<b>fatged</b>cv<b>MIWHER</b>g<b>EW</b>ND<b>VPCNYQLP</b>FT<b>CK</b>--g  ---nCLPD<b>SVYEGY</b>CYK<b>VFKER</b>M<b>NADA</b>E<b>KFTK</b>q<b>hkd</b>g<b>HLV</b>SFR<b>NSKE</b>V<b>DFV</b>IS<b>IA</b>fpm1k<b>N</b>LV<b>WIGL</b>TD<b>YWRDCN</b><b>W</b>EW<b>SD</b>GA<b>Q</b>LD<b>YKA</b><b>W</b>D<b>NER</b>H<b>CF</b>-----<b>I</b>Y<b>KNT</b>-<b>D</b>NO<b>W</b>TR<b>RD</b>CT<b>WTFS</b>V<b>CK</b>C<b>Pa</b>-</p> <p><b>BLAST:</b> aliSize=58 (resi) iden=32.52% (40/123) simi=47.15% (58/123)  eq-EEG<b>TKFO</b>HCYRH<b>PDRET</b>VDAERR<b>RE</b>Q<b>S</b>--<b>HS</b>SV<b>TPPE</b>Q<b>EFV</b>NK----<b>QYQW</b>IGL<b>NDRTIEGDF</b>R<b>WSD</b>GH<b>S</b>Q<b>FEK</b>WR--<b>PNQ</b>pdf<b>fatged</b>cv<b>MIWHER</b>g<b>EW</b>ND<b>VPCNYQLP</b>FT<b>CK</b>--kg  ---nCLPD<b>SVYEGY</b>CYK<b>VFKER</b>M<b>NADA</b>E<b>KFTK</b>q<b>hkd</b>g<b>HLV</b>SFR<b>NSKE</b>V<b>DFV</b>IS<b>IA</b>fpm1k<b>N</b>LV<b>WIGL</b>TD<b>YWRDCN</b><b>W</b>EW<b>SD</b>GA<b>Q</b>LD<b>YKA</b><b>W</b><b>D</b>NER<b>HCF</b>I<b>YKNTD</b>-----<b>N</b>O<b>W</b>TR<b>RD</b>CT<b>WTFS</b>V<b>CK</b>C<b>Pa</b>--</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.36 (Å)  eQEEG<b>TKFO</b>HCYRH<b>PDRET</b>VDAERR<b>RE</b>Q-Q-S<b>HS</b>SV<b>TPPE</b>Q<b>EFV</b>NK-NA----<b>QYQW</b>IGL<b>NDRTIEGDF</b>rwsdghslqfek<b>wrpnqpdf</b><b>fatGED</b>C<b>VMIWHER</b>g<b>EW</b>ND<b>VPCNYQLP</b>FT<b>CK</b>KG-  -NCLPD<b>SVYEGY</b>CYK<b>VFKER</b>M<b>NADA</b>E<b>KFTK</b>q<b>hkd</b>g<b>HLV</b>SFR<b>NSKE</b>V<b>DFV</b>IS<b>IA</b>fpm1k<b>N</b>LV<b>WIGL</b>TD<b>YWRDCN</b><b>W</b>EW<b>SD</b>GA<b>Q</b>LD<b>YKA</b><b>W</b><b>D</b>NER<b>HCF</b>I<b>YKNTD</b>N-<b>Q</b>W<b>TRRD</b>CT<b>WTFS</b>V<b>CK</b>C<b>Pa</b></p>

1026	<p><b>1tdqB</b> (126)</p> <p><b>lukmB</b> (124)</p>	M	32.26	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=2.07 (Å)  eq-EEGWTKFGHCYRHPDRETIVDAERRRREQ-Q-SHLSSTVTPPEQEFVNNNAQ-----DYQWIGLNDRTIEGdf rwsdghs lqfekwrpnqpdf-----FATGEDVVMWHERGEWNDVPCNYQLPFTCKKG-  --CPLGWSSFDQHCYKVEPVKNWTEAEEICMQHhKgSRLASIHSSSEEAfVSKLASKALkf tSMWIGLNNPWKDCk-----wewsdnarfdykawKRRP-YCTVMVVKpDRIFWFRGCEKSVSEVCKFLt</p> <p><b>SARST:</b> aliSize=114 (resi) RMSD=9.67 (Å)  eqc-EEGWTKFGHCYRHPDRETIVDAERRRREQ--QSHLSSTVTPPEQEFVNNNAQ-----YQWIGLNDRTIEGDFRWSLGHSLQFEKwrpnqpdNFFATGEDCVVMWHERGEWNDVPCNYQLPFTCKK--g  ---cPLGWSSFDQHCYKVEPVKNWTEAEEICMQHhKgSRLASIHSSSEEAfVSKLASKALkf tSMWIGLNNPWKDCkWEWSDNARFDYK-----AWKRRPYCTVMVVKPDR-IFWFRGCEKSVSEVCKF1t-</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=33.06% (41/124) simi=50.81% (63/124)  eq-EEGWTKFGHCYRHPDRETIVDAERRRREQ--QSHLSSTVTPPEQEFVNNNAQ-----DYQWIGLNDRTIEGDFRWSLGHSLQFEKWRPNQPDFATGEDCVVMWHERGEWNDVPCNYQLPFTCKK---kg  --CPLGWSSFDQHCYKVEPVKNWTEAEEICMQHhKgSRLASIHSSSEEAfVSKLASKALkf tSMWIGLNNPWKDCkWEWSDNARFDYKAWK-RRP---YCT---VMVVKPDRIFWFRGCEKSVSEVCKf1t--</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.54 (Å)  eq-EEGWTKFGHCYRHPDRETIVDAERRRREQ-Q-SHLSSTVTPPEQEFVNNNAQ-----DYQWIGLND-rtiE--GDFRWSLGHSLQFEKWRPNQPDF-fatGEDCVVMWHERGEWNDVPCNYQLPFTCKKG-  --CPLGWSSFDQHCYKVEPVKNWTEAEEICMQHhKgSRLASIHSSSEEAfVSKLASKALkf tSMWIGLNNp---WkdCKWEWSDNARF-DY-K---AWKRRP-----YCTVMVVKpDRIFWFRGCEKSVSEVCKFLt</p>
1027	<p><b>1tdqB</b> (126)</p> <p><b>lukmA</b> (131)</p>	M	30.95	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=1.90 (Å)  eQEEGWTKFGHCYRHPDRETIVDAERRRREQ-Q-SHLSSTVTPPEQEFVNNNAQ-D-----YQWIGLNDRTIIEGDF rwsdghs lqfekwrpnqpdfn-----FFaTgEDVVMWHERG-GEWNDVPCNYQLPFTCKKG-  -DCPSDWTAYDQHCYLAIGEPQNYEAERFCTEQakdGHLVSTQSRREGNFVAQLVSGFmhrseiVWIGLRDRREEQCn-----pewndgskiiyvwnkeGE-S-KMQGLTKWTFHDWNNINCEDLYPFVCKFSa</p> <p><b>SARST:</b> aliSize=115 (resi) RMSD=9.44 (Å)  eqc--EEGWTKFGHCYRHPDRETIVDAERRRREQ--QSHLSSTVTPPEQEFVNNNAQ-----NAQD---YQWIGLNDRTIEGDF--FRWSLGHSLQFEKWRPNQPDFfatGEDCVVMWHERG-EWNDVPCNYQLPFTCKK--g  ---dcPSDWTAYDQHCYLAIGEPQNYEAERFCTEQakdGHLVSTQSRREGNFVAQLVSGFmhrseiVWIGLRDRREEQCnPEWNDGSKIIVVNWKEGES-----KMQGLTKWTFHDWNNINCEDLYPFVCKFSa-</p> <p><b>BLAST:</b> aliSize=61 (resi) iden=33.33% (42/126) simi=48.41% (61/126)  eq-EEGWTKFGHCYRHPDRETIVDAERRRREQ--QSHLSSTVTPPEQEFVNNNAQ-----NAQDYQWIGLNDRTIEGDF--RWSLGHSLQFEKWRPNQPDFFATGEDCVVMWHERGEWNDVPCNYQLPFTCKK---kg  --dcPSDWTAYDQHCYLAIGEPQNYEAERFCTEQakdGHLVSTQSRREGNFVAQLVSGFmhrseiVWIGLRDRREEQCnPEWNDGSKIIVVNWKEGES-----KMQGLTKWTFHDWNNINCEDLYPFVCKFSa--</p> <p><b>Proposed:</b> aliSize=117 (resi) RMSD=1.38 (Å)  eQEEGWTKFGHCYRHPDRETIVDAERRRREQ-Q-SHLSSTVTPPEQEFVNNNAQ-D-----YQWIGLNDRTIIEGDF--RWSLGHSLQFEKWRPNQPDFfatGEDCVVMWHERG-GEWNDVPCNYQLPFTCKKG-  -DCPSDWTAYDQHCYLAIGEPQNYEAERFCTEQakdGHLVSTQSRREGNFVAQLVSGFmhrseiVWIGLRDRREEQCnPEWNDGSKIIVVNWKEGES-----KMQGLTKWTFHDWNNINCEDLYPFVCKFSa</p>
1028	<p><b>1tdqB</b> (126)</p> <p><b>luexA</b> (125)</p>	M	35.20	<p><b>TM-align:</b> aliSize=101 (resi) RMSD=1.91 (Å)  eQEEGWTKFGHCYRHPDRETIVDAERRRREQ-QSHLSSTVTPPEQEFVNNNAQ--D-----YQWIGLNDRTIIEGDF rwsdghs lqfekwrpnqpdfn-----FATGEDVVMWHERG-GEWNDVPCNYQLPFTCKKG-  -GCLPDWSSYKGHCKVFKKVGTVDAEKFCVENSGLASIDSKEEADFTKLASqtLtkfvyDAWIGLRDESKTQCCSPQWTDGSSVYVEN-----VDEPTKCFGLDVTETyRTWTLPCGEKNPHICKS-</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=8.93 (Å)  eqceeg-----WTKFGHCYRHPDRETIVDAERRRREQ-QSHLSSTVTPPEQEFVNNNAQ-----QDYQWIGLN--DRTIEGDFRWSLGHSLQFEKWRPNQPDFATGEDCVVMWHERG-EWNDVPCNYQLPFTCKK--kg  -----gclpdWSSYKGHCKVFKKVGTVDAEKFCVENSGLASIDSKEEADFTKLASqtLtkfvyDAWIGLRDESKTQCCSPQWTDGSSVYVEN-----VDEPTKCFGLDVTETyRTWTLPCGEKNPHICKS--</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=39.20% (49/125) simi=54.40% (68/125)  eq-EEGWTKFGHCYRHPDRETIVDAERRRREQ-QSHLSSTVTPPEQEFVNNNAQ-----YQWIGLND--RTIEGDFRWSLGHSLQFEKWRPNQPDFATGEDCVVMWHERGEWNDVPCNYQLPFTCKK--kg  --gCLPDWSSYKGHCKVFKKVGTVDAEKFCVENSGLASIDSKEEADFTKLASqtLtkfvyDAWIGLRDESKTQCCSPQWTDGSSVYVEN--VDEPTKCF--GLD---VHTYRTWTLPCGEKNPHICKS--</p> <p><b>Proposed:</b> aliSize=115 (resi) RMSD=1.77 (Å)  eQEEGWTKFGHCYRHPDRETIVDAERRRREQ-QSHLSSTVTPPEQEFVNNNAQ--D-----YQWIGLNDRTIIEGDF--RWSLGHSLQFEKWRPNQPDFATGEDCVVMWHERG-GEWNDVPCNYQLPFTCKKG-  -GCLPDWSSYKGHCKVFKKVGTVDAEKFCVENSGLASIDSKEEADFTKLASqtLtkfvyDAWIGLRDESKTQCCSPQWTDGSSVYVEN--VDEPTKCFGLDVTETyRTWTLPCGEKNPHICKS-</p>

1029	M	32.52	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.01 (Å)  eQEEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----DYQWIGLNDRTIEGDFrwsdghslqfekwrpnqpdnf-----FATGEDCVMIWHERGENDVPCNYQLPFTCKG-  -GLPDSSSYKGHCHYKVEKVEKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----rwtdgarldyraLSDEPTCFVAESF-HNKWIQWTCNRKKSIVCKYrv</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=9.24 (Å)  eq-EEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----KNAQD-YQWIGL--NDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCK--g  --gCLPDSSSYKGHCHYKVEKVEKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICP--LRWTDGARLDYR-----ALSD-----EPTCFVAESF-HNKWIQWTCNRKKSIVCKYrv-</p> <p><b>BLAST:</b> aliSize=63 (resi) iden=34.15% (42/123) simi=51.22% (63/123)  eq-EEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQDYQ-----WIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDcvvmiWHERgeNDVPCNYQLPFTCK---kg  --gCLPDSSSYKGHCHYKVEKVEKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPLRWTGARLDYR-ALSDEPTCFVAES-----FHNK--WIQWTCNRKKSIVCKYrv--</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.36 (Å)  eQEEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----DYQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCKG-  -GLPDSSSYKGHCHYKVEKVEKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPLRWTGARLDYR-----SDEPTCFVAESF-HNKWIQWTCNRKKSIVCKYrv</p>
1030	M	28.80	<p><b>TM-align:</b> aliSize=103 (resi) RMSD=2.16 (Å)  -EQEEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----DYQWIGLNDRTIEGDFrwsdghslqfekwrpnqpdnf-----FATGEDCVMIWHERGENDVPCNYQLPFTCKG-  -gFCCPLGSSSYDEHCHYQVQKMNWEDAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----kewsdgtklDYKAWSGSDCITSKTT-DNQLSMDSSSKRYVVCKFQa</p> <p><b>SARST:</b> aliSize=112 (resi) RMSD=9.85 (Å)  eqc---EEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----DYQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCK--g  ---gfcPLGSSSYDEHCHYQVQKMNWEDAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----kewsdgtklDYKAWSGSDCITSKTT-DNQLSMDSSSKRYVVCKFQa-</p> <p><b>BLAST:</b> aliSize=64 (resi) iden=32.00% (40/125) simi=51.20% (64/125)  eq---EEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----DYQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCK---kg  --gfcPLGSSSYDEHCHYQVQKMNWEDAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----kewsdgtklDYKAWSGSDCITSKTT-DNQLSMDSSSKRYVVCKFQa--</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.59 (Å)  -EQEEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ----DYQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCKG-  -gFCCPLGSSSYDEHCHYQVQKMNWEDAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----kewsdgtklDYKAWSGSDCITSKTT-DNQLSMDSSSKRYVVCKFQa</p>
1031	M	31.75	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=1.97 (Å)  eQEEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ--D-----YQWIGLNDRTIEGDFrwsdghslqfekwrpnqpdnf-----FAT--GEDCVMIWHER-GEWVNDVPCNYQLPFTCKKg  -DCSSGSSSYEGHCHYKVEKQSKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----iewsdgssisyenWIEEeSKKLLGVHIEGTGFHKWENFYEQDPPVCEA-</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=9.89 (Å)  eqc--EEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ-----DYQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCK--kg  ---dcSSGSSSYEGHCHYKVEKQSKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----iewsdgssisyenWIEEeSKKLLGVHIEGTGFHKWENFYEQDPPVCEA--</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=37.30% (47/126) simi=53.97% (68/126)  eq-EEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ-----KNAQDYQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHERGENDVPCNYQLPFTCK--kg  --dcSSGSSSYEGHCHYKVEKQSKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----iewsdgssisyenWIEEeSKKLLGVHIEGTGFHKWENFYEQDPPVCEA--</p> <p><b>Proposed:</b> aliSize=116 (resi) RMSD=1.43 (Å)  eQEEGWTKFQGHCHYRHPDRETWDAERRRREQ-Q-SHLSSTVTPPEQEFVNKNAQ--D-----YQWIGLNDRTIEGDFRWSGHSLOFEKWRPNQPDNFFATGEDCVMIWHER-GEWVNDVPCNYQLPFTCKKg  -DCSSGSSSYEGHCHYKVEKQSKTWADAERFKFKLvnGGHLMVNSRREGFEFISKLALekmriVLVWIGLSHFWRICPL-----iewsdgssisyenWIEEeSKKLLGVHIEGTGFHKWENFYEQDPPVCEA-</p>



1032	<p><b>1tdqB (126)</b></p> <hr/> <p><b>luosA (133)</b></p>	M	28.57	<p><b>TM-align: aliSize=101 (resi) RMSD=1.57 (Å)</b>  eQEEGWTKFQGHCHYRHPDRETVDAERRRREQ--SHLSSTVTPEEQEFVKNNAQ-----DYQWIGLNDRTIE--EGdf rwsdghslqfekwrpnqpdnf-----FAT--GEDVVMWHERG-GEWNDVPCNYQLPFTCKG---  -HCPSDWYYDQHCYRIENEMNVEDAEWFKTKQakGHLVSKSAKADFVAWMTqnieesfSHVSLGLRVQNKEKQC-----stkwsgssvsydnLLDlyITKSLKKETGFRKWFVASCIGKIPFVCKFPppqc</p> <p><b>SARST: aliSize=115 (resi) RMSD=9.74 (Å)</b>  eqc--EEGWTKFQGHCHYRHPDRETVDAERRRREQ--QSHLSSTVTPEEQEFVKN-----NAQDYQWIGLNDRTIE--GDFRWSGDHSLQFEKWRPNQpdnfFATGEDVVMWHERG-GEWNDVPCNYQLPFTCKG----g  ---hcPSDWYYDQHCYRIENEMNVEDAEWFKTKQakGHLVSKSAKADFVAWMTqnieESFSHVSIGLRVQNKEKQCSTKWSGSSVSYDNLDD-----LYITKSLKKETGFRKWFVASCIGKIPFVCKFPppqc-</p> <p><b>BLAST: aliSize=64 (resi) iden=33.33% (42/126) simi=50.79% (64/126)</b>  eq-EEGWTKFQGHCHYRHPDRETVDAERRRREQ--SHLSSTVTPEEQEFV-----NKNAOD---YQWIGLNDRTIEGDF--RWSGDHSLQFEKWRPNQpdnFFATGEDVVMWHERG--GEWNDVPCNYQLPFTCKG----kg  --hcPSDWYYDQHCYRIENEMNVEDAEWFKTKQakGHLVSKSAKADFVAWMTQNIIEESfshVSLGLRVQNKEKQCstKWSGSSVSYD-----NLDD-LYIT--KSLKKETGFRKWFVASCIGKIPFVCKFPppqc--</p> <p><b>Proposed: aliSize=114 (resi) RMSD=1.55 (Å)</b>  eQEEGWTKFQGHCHYRHPDRETVDAERRRREQ--SHLSSTVTPEEQEFVKNNAQ-----DYQWIGLND-----rtieGDF--RWSGDHSLQFEKWRPNQpdnFFATGEDVVMWHERG-GEWNDVPCNYQLPFTCKG---  -HCPSDWYYDQHCYRIENEMNVEDAEWFKTKQakGHLVSKSAKADFVAWMTqnieesfSHVSLGLRVQNKEKQC-----QCSTKWSGSSVSYD-N---LLDLY---ITKSLKKETGFRKWFVASCIGKIPFVCKFPppqc</p>
1033	<p><b>1tdqB (126)</b></p> <hr/> <p><b>lj34A (129)</b></p>	M	34.92	<p><b>TM-align: aliSize=102 (resi) RMSD=1.86 (Å)</b>  eQEEGWTKFQGHCHYRHPDRETVDAERRRREQ--SHLSSTVTPEEQEFVKNNAQ--D-----YQWIGLNDRTIE--GDFrwsdghslqfekwrpnqpdnf-----FAT--GEDVVMWHERG-GEWNDVPCNYQLPFTCKG  -DCPSGWSSYEGHCYKPKLYKTVDAERFCTEQakGHLVSKESAGADFVAQLVTenIqntksVWIGLRVQKKEKQC-----ssewsdgs svsyenWIEaeSKTLGLEKETGFRKWFVNIYCGQNPVCEA-</p> <p><b>SARST: aliSize=114 (resi) RMSD=9.66 (Å)</b>  eqc--EEGWTKFQGHCHYRHPDRETVDAERRRREQ--QSHLSSTVTPEEQEFVKN-----AQDYQWIGLNDRTIEGD--FRWSGDHSLQFEKWRPNQpdnFFATGEDVVMWHERG-GEWNDVPCNYQLPFTCKG--kg  ---dcPSGWSSYEGHCYKPKLYKTVDAERFCTEQakGHLVSKESAGADFVAQLVTenIqntksVWIGLRVQKKEKQCSSEWSGSSVSYENWIEAE--KTGLGLEKETGFRKWFVNIYCGQNPVCEA--</p> <p><b>BLAST: aliSize=68 (resi) iden=38.10% (48/126) simi=53.97% (68/126)</b>  eq-EEGWTKFQGHCHYRHPDRETVDAERRRREQ--SHLSSTVTPEEQEFV-----N-KNAQDYQWIGL--NDRTIEGDFRWSGDHSLQFEKWRPNQpdnFFATGEDVVMWHERG--GEWNDVPCNYQLPFTCKG--kg  --dcPSGWSSYEGHCYKPKLYKTVDAERFCTEQakGHLVSKESAGADFVAQLVTenIqntksVWIGLRVQKKEKQCSSEWSGSSVSYENWIEAE--KTGLGLEKETGFRKWFVNIYCGQNPVCEA--</p> <p><b>Proposed: aliSize=117 (resi) RMSD=1.51 (Å)</b>  eQEEGWTKFQGHCHYRHPDRETVDAERRRREQ--SHLSSTVTPEEQEFVKNNAQ--D-----YQWIGLNDRTIE--GDFRWSGDHSLQFEKWRPNQpdnFFATGEDVVMWHERG-GEWNDVPCNYQLPFTCKG  -DCPSGWSSYEGHCYKPKLYKTVDAERFCTEQakGHLVSKESAGADFVAQLVTenIqntksVWIGLRVQKKEKQCSSEWSGSSVSYENWIEAE-----SKTLGLEKETGFRKWFVNIYCGQNPVCEA-</p>
1034	<p><b>3bc7C (128)</b></p> <hr/> <p><b>loz7B (123)</b></p>	M	26.02	<p><b>TM-align: aliSize=97 (resi) RMSD=2.09 (Å)</b>  ----GKRYFKNFYFSLIPKTYSAEQFCVSR-N-SHLTSVTSESEQEFLYKTAG---GLIYWIGLTKA--GM-EGdwswwddtpfnkvqsrvfwipgepnag-----N-NEHCGNIKAPSLQA--NDAPDKTFLFICKRFYvp  nc1pdwSVYEGYCYKVKFERMNVDAEKFCQKqhdGHLVFRNSKEVDFVLSLAFpM1kNDLVWIGLTDYWRDCN-----ewsdgaqldykawDnERHCFIYKNTD--QWTRRDQTWTFSEVCKCPA--</p> <p><b>SARST: aliSize=106 (resi) RMSD=9.76 (Å)</b>  gw-----KYFKNFYFSLIPKTYSAEQFCVSR--RNSHLTSVTSESEQEFLYKTAG---GLIYWIGLTKA--KAGMEgdwSWVDTPFNkvqsrvfwipGEPNAGnnehcgnIKAPSLQA--NDAPDKTFLFICKRFYvp  --nc1pdwSVYEGYCYKVKFERMNVDAEKFCQKqhdGHLVFRNSKEVDFVLSLAFpM1kNDLVWIGLTDYWRDCN--WESDGAQL-----DYKAWDNERH-----CFIYKNTDnQWTRRDQTWTFSEVCKCPA--</p> <p><b>BLAST: aliSize=51 (resi) iden=29.27% (36/123) simi=41.46% (51/123)</b>  g-----KYFKNFYFSLIPKTYSAEQFCVSR--RNSHLTSVTSESEQEFLYKTAGGLI-----YWIGLTKAGMEGDWSVDTPFNkvqsVRFwipgepnagNNEHCGNIKAPSLQA--NDAPDKTFLFICKRFYvp  -nc1pdwSVYEGYCYKVKFERMNVDAEKFCQKqhdGHLVFRNSKEVDFVLSLAFpM1kNDLVWIGLTDYWRDCN--WESDGAQL-----YKAW-----DNERHCFIYKNTDnQWTRRDQTWTFSEVCKCPA--</p> <p><b>Proposed: aliSize=109 (resi) RMSD=1.75 (Å)</b>  ----GKRYFKNFYFSLIPKTYSAEQFCVSR-N-SHLTSVTSESEQEFLYKTAG---GLIYWIGLTKA--gmeGDWSVVDTPFNKVQSVRFwipGepnagnNEHCGNIKAPSLQA--NDAPDKTFLFICKRFYvp  nc1pdwSVYEGYCYKVKFERMNVDAEKFCQKqhdGHLVFRNSKEVDFVLSLAFpM1kNDLVWIGLTDYWRDCN--CNWESDGAQLDY-K-A-D-N-----ERHCFIYKNTDnQWTRRDQTWTFSEVCKCPA--</p>

1035	<p>3bc7C (128)</p> <p>lukmB (124)</p>	M	25.81	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.06 (Å)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTK-AGMEGdswvddtpfnkvqsrvfwipgepna-----GNNEHCNIGKAP--SLqA NDAPCDKTFLLICKRPYvp        cplGSSSDOHCYKVFEPVKNWTEAEIEMQOHkgSRLASIHSEEEAVSKLASkaIkFTSMWIGLNNPWKDKCK-----wewsdnarfdykwKRRPYCTVMVVKpDRi-FWfTRGCEKSVSVCKFLT--</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.28 (Å)        g-----KYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTKAGMEG-D-WSVVDTPfnkvqsrvfwipgePNNAGNNEHCNIGKAPSLQAW---NDAPCDKTFLLICKRP-yvp        -cplgSSSDOHCYKVFEPVKNWTEAEIEMQOHkgSRLASIHSEEEAVSKLASkaIkFTSMWIGL--NNPWKDKCKWESNAR-----FDYKAWKRRPYCTVMVVKPDRi fwfTRGCEKSVSVCKFLT---</p> <p><b>BLAST:</b> aliSize=55 (resi) iden=29.03% (36/124) simi=44.35% (55/124)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAGGLI-----YWIWIGLTKAGMEGDWSVVDTPfnkvqsVRFwiPGEpnnagnneHCNIGKAPSLQAWNDAPCDKTFLLICK---rpyvp        cplGSSSDOHCYKVFEPVKNWTEAEIEMQOHkgSRLASIHSEEEAVSKLASkaIkFTSMWIGLNNPWKDKCKWESNARFD-----YKAW--KRRP-----YCTVMVVKPDRIFWfTRGCEKSVSVCKflT-----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.60 (Å)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTK--agmEGDWSVVDTPfnKvqSVrfWipgePnNagNNEHCNIGKAP--SLqA NDAPCDKTFLLICKRPYvp        cplGSSSDOHCYKVFEPVKNWTEAEIEMQOHkgSRLASIHSEEEAVSKLASkaIkFTSMWIGLNNpwk--DCKWESNAR--D--YK--A----WK--RRPYCTVMVVKpDRi-FWfTRGCEKSVSVCKFLT--</p>
1036	<p>3bc7C (128)</p> <p>lukmA (131)</p>	M	22.66	<p><b>TM-align:</b> aliSize=99 (resi) RMSD=2.15 (Å)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--RN-SHLT SVTSESEQEFLYKTAG--G--L-IYWIGLTKAG-M-EGDdswvddtpfnkvqsrvfwipgepna-----AGnNEHCNIGK--APSLqA NDAPCDKTFLLICKRPYvp        dcpsdITAYDOHCYLAIGEPQNWYEAERFCTEQAKdGHLVSIQSRREGNFVAQLVSGfMhrsEiYVWIGLRRReEqQCN-----pewndgskiiyvnwkeGE-SKMQGLTkwTNFH-DWNNINCEDLYPFVCKFSA--</p> <p><b>SARST:</b> aliSize=111 (resi) RMSD=9.56 (Å)        g-----KYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG-----GLIYWIGLTKAGMEG--DWSVVDTPfnkvqSVRFwiPGEpnnagnnEHCNIGKAPSLQA----NDAPCDKTFLLICKRP-yvp        -dcpsdITAYDOHCYLAIGEPQNWYEAERFCTEQAKdGHLVSIQSRREGNFVAQLVSGfMhrsEiYVWIGLRRRREEQqCNPEWNGSKI----IYVNWKEGES-----KMQG---LTKWtnfhDNNINCEDLYPFVCKFSA---</p> <p><b>BLAST:</b> aliSize=51 (resi) iden=24.22% (31/128) simi=39.84% (51/128)        g-----KYFKGNFYFSLIPKTIWYSAEQFCVSR--SRNSHLT SVTSESEQEFLYKTAGGLIYWIGLTKAGMEGDWSVVDTPfnkvqSVRFwiPGEpna-----P-----EP-----N-NAGNNEHCNIGKAPSLQAWNDAPCDKTFLLICK---rpyvp        -dcpsdITAYDOHCYLAIGEPQNWYEAERFCTEQAKdGHLVSIQSRREGNFVAQLVSGfMHR-----SEIYVWIGLrdreeqqcnPewndSKiiyvnwkeGESKMQGLTWTNFHDWNNINCEDLYPFVCKfSa-----</p> <p><b>Proposed:</b> aliSize=114 (resi) RMSD=1.89 (Å)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG--G-L---IYWIGLTKAG--mEGDWSVVDTPfnKvqSVrfWipgePnNagNNEHCNIGK--APSLqA NDAPCDKTFLLICKRPYvp        dcpsdITAYDOHCYLAIGEPQNWYEAERFCTEQAKdGHLVSIQSRREGNFVAQLVSGfMhrseIYVWIGLRRReeq-QCNPEWNGSKI-I--YV--N---WKE-G-ESKMQGLTkwTNFH-DWNNINCEDLYPFVCKFSA--</p>
1037	<p>3bc7C (128)</p> <p>lj34B (123)</p>	M	24.39	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=1.91 (Å)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTKA-GMEGDswvddtpfnkvqsrvfwipgepna-----GNNEHCNIGKAPSLqA NDAPCDKTFLLICKRPYvp        dcpsdSSYEHCYKPFSEPKNWADAENFCTQQAghGHLVSIQSRREGNFVAQLVSGfMhrsEiYVWIGLRRReeq-QCNPEWNGSKI-I--YV--N---WKE-G-ESKMQGLTkwTNFH-DWNNINCEDLYPFVCKFSA--</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=8.73 (Å)        gw-----KYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTKAGMEGDWSVVDTPfnkvqsrvfwipgePNNAGNNEHCNIGKAPSLQAW---NDAPCDKTFLLICKRP-yvp        --dcpsdwSSYEHCYKPFSEPKNWADAENFCTQQAghGHLVSIQSRREGNFVAQLVSGfMhrsEiYVWIGLRRReeq-QCNPEWNGSKI-I--YV--N---WKE-G-ESKMQGLTkwTNFH-DWNNINCEDLYPFVCKFSA---</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=27.64% (34/123) simi=43.90% (54/123)        g-----KYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTKAGMEGDWSVVDTPfnkvqsVRFwiPGEpnaGNNEHCNIGKAPSLQAWNDAPCDKTFLLICK---rpyvp        -dcpsdSSYEHCYKPFSEPKNWADAENFCTQQAghGHLVSIQSRREGNFVAQLVSGfMhrsEiYVWIGLRRReeq-QCNPEWNGSKI-I--YV--N---WKE-G-ESKMQGLTkwTNFH-DWNNINCEDLYPFVCKFSA---</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.72 (Å)        ---GKYFKGNFYFSLIPKTIWYSAEQFCVSR--N-SHLT SVTSESEQEFLYKTAG----GLIYWIGLTKA--gmEGDWSVVDTPfnKvqSVrfWipgePnNagNNEHCNIGKAPSLqA NDAPCDKTFLLICKRPYvp        dcpsdSSYEHCYKPFSEPKNWADAENFCTQQAghGHLVSIQSRREGNFVAQLVSGfMhrsEiYVWIGLRRReeq-QCNPEWNGSKI-I--YV--N---WKE-G-ESKMQGLTkwTNFH-DWNNINCEDLYPFVCKFSA--</p>

1038	<p>3bc7C (128)</p> <p>ljwiB (123)</p>	M	27.64	<p><b>TM-align:</b> aliSize=99 (resi) RMSD=2.26 (Å)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTSSESEQEFLYKTAG---GLIYWIGLTKA-GMEGDswvddtpfnkvqsrvfwiqgepna-----GN-NEHCNIGKAPSLqAANDAPCDKTFLLICKRPyvp  gclpdWSSYKGHCKVFKVEKTWADAEKFCkELVngGHLMSVNSREEGEFISLALekmrIVLWVIGLSHFWRICPL-----rwtdgarldyralsdEPICFVAESFHN-KWIQWTCNRKKSfVCKYRV--</p> <p><b>SARST:</b> aliSize=90 (resi) RMSD=11.12 (Å)  g-----WKYFKGNFYFSLIPKTYSAEQFCVSR-----RnshltsVTseseqeflyktaggliYWIGLTKAGMEGDWSVVDTPFNkvqsrvfwiqgepNnagnehcGNIGKAPSLQAW-NDAPCDKTFLLICKRP-yvp  -gclpdWSSYKGHCKVFKVEKTWADAEKFCkELVngghlmsvnsreegefisklalekMR-----IVL-----VWIGLSHFWRICPLRVTIGARLD-----YRALSDPE-----ICFVAFESFHNKIOWTCNRKKSfVCKYRV---</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=21.95% (27/123) simi=29.27% (36/123)  g-----WKYFKGNFYFSLIPKTYSAEQFCVSR--VSRNSHLTSVTSSESEQEFLYKTAG---GGLIYWIGLTKAGMEGDWSVVD-----dtpfnkvqsrvfwiqgepnnagnehcgnikapslqawndapcdktflfickrpyvp  -gclpdWSSYKGHCKVFKVEKTWADAEKFCkELVngghlmsvnsreegefisklalekMRIVLWVIGLSHFWRICPLRVTIGARLDyralsdEPICFVAESFHNKIOWTCNRKKSfVCKYRV-----</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.80 (Å)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTSSESEQEFLYKTAG---GLIYWIGLTKA--gmEGDWSVVDTPFNkvqSVrfwiqgepNnagnehcGNIGKAPSLqAANDAPCDKTFLLICKRPyvp  gclpdWSSYKGHCKVFKVEKTWADAEKFCkELVngGHLMSVNSREEGEFISLALekmrIVLWVIGLSHFWRICPLRVTIGARLDY--R---ALSD--EPICFVAESFHN-KWIOWTCNRKKSfVCKYRV--</p>
1039	<p>3bc7C (128)</p> <p>lv4IB (125)</p>	M	22.40	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.16 (Å)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTSSESEQEFLYKTAG---GLIYWIGLTKAGMEGDswvddtpfnkvqsrvfwiqgepna-----GNNEHCNIGKAPSLqAANDAPCDKTFLLICKRPyvp  gfccplGWSSYDEHCKQVFQQKMNWEDAERFCTQQRgSHLVSFHSSEVDFVVSktSPILKHDFVWGLSNVWNECA-----kewsdgtklDYKAWSGQSDCITSKITDN-QWLSMDCSSKRYVVCkFQA--</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=9.79 (Å)  g-----WKYFKGNFYFSLIPKTYSAEQFCVSR--NSHLTSVTSSESEQEFLYKTAG---KTAGGLIYWIGLTKAGMEGDWSVVDTPFNkvqsrvfwiqgepNnagnehcGNIGKAPSLQAW-NDAPCDKTFLLICKRP-yvp  -gfccplGWSSYDEHCKQVFQQKMNWEDAERFCTQQRgSHLVSFHSSEVDFVVSktSPILKHDFVWGLSNVWNECAKENSIGT-----KLDYKAWSGQSDCITSKITDN-QWLSMDCSSKRYVVCkFQA---</p> <p><b>BLAST:</b> aliSize=42 (resi) iden=21.60% (27/125) simi=33.60% (42/125)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSR--NSHLTSVTSSESEQEFLYKTAG---GLIYWIGLTKAGMEGDWSVVDtpfnkvqsrvfwiqgepNnagnehcGNIGKAPSLQAW-NDAPCDKTFLLICKRPyvp  gfccplGWSSYDEHCKQVFQQKMNWEDAERFCTQQRgSHLVSFHSSEVDFVVSktSPILKHDFVWGLSNVWNECAKENSIGT-----LSNV--W-----NECAKEWSDGTIL-DYKAWSGQSDCITSKITDN-QWLSMDCSSKRYVVCkFQA-----</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=1.62 (Å)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTSSESEQEFLYKTAG---GLIYWIGLTKA---kagMEGDWSVVDTPFNkvqSVrfwiqgepNnagnehcGNIGKAPSLqAANDAPCDKTFLLICKRPyvp  gfccplGWSSYDEHCKQVFQQKMNWEDAERFCTQQRgSHLVSFHSSEVDFVVSktSPILKHDFVWGLSNVWNECAKENSIGT-----YK--A---WSG---QSDCITSKITDN-QWLSMDCSSKRYVVCkFQA--</p>
1040	<p>3bc7C (128)</p> <p>liodA (129)</p>	M	22.66	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.10 (Å)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTSSESEQEFLYKTAG---GL---IYWIGLTKAG-M-EGDswvddtpfnkvqsrvfwiqgepna-----GNNEHCNIGK--APSLqAANDAPCDKTFLLICKRpyvp  dcssGWSSYDEHCKVFKQSKTWADAESEFCTKQVngGHLVSIIESGEADVQQLIAqkiKSakiHVVIGLRAQNKKEQCS-----iewsdgssisyenwieEESKCLGVHieTGFH-KWENFYEQQDPVCEA----</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=8.96 (Å)  g-----WKYFKGNFYFSLIPKTYSAEQFCVSR--NSHLTSVTSSESEQEFLYKTAG---GGLIYWIGLTKAGMEGDWSVVDTPFNkvqsVRFWIPGEPNNA-GNNEHCNIGKAPSLQAW-NDAPCDKTFLLICKRpyvp  -dcssGWSSYDEHCKVFKQSKTWADAESEFCTKQVngGHLVSIIESGEADVQQLIAqkiKSakiHVVIGLRAQNKKEQCSIEW-----SDGSSISYENWIEEESKCLGVHieTGFH-KWENFYEQQDPVCEA-----</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=28.12% (36/128) simi=42.19% (54/128)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSR--NSHLTSVTSSESEQEFLYKTAG---YKTAGGLIYWIGLTKAGMEGDWSVVDTPFNkvqsVRFWIPGEPNnagnehcGNIGKAPSLQAW-NDAPCDKTFLLICKRpyvp  dcssGWSSYDEHCKVFKQSKTWADAESEFCTKQVngGHLVSIIESGEADVQQLIAqkiKSakiHVVIGLRAQNKKEQCSIEWSDGSSISYENWIEE-----SKKCLGVHIEGFKWENFYEQQDPVCEA-----</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.85 (Å)  -----GWKYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTSSESEQEFLYKTAG---GL---IYWIGLTKAGMEGDW---SVVDTPFNkvqSVrfwiqgepNnagnehcGNIGK--APSLqAANDAPCDKTFLLICKRpyvp  dcssGWSSYDEHCKVFKQSKTWADAESEFCTKQVngGHLVSIIESGEADVQQLIAqkiKSakiHVVIGLRAQNKKEQCSIEWSDGSSISYENWIEE---YE--N---WIE--EESKCLGVHieTGFH-KWENFYEQQDPVCEA----</p>

1041	<p>3bc7C (128)</p> <p>luosA (133)</p>	M	20.31	<p><b>TM-align:</b> aliSize=102 (resi) RMSD=2.19 (Å)  -----GKLYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTESEQEFLYKTAG--G----LIYWI<del>GLTKAGME-GDWS</del>wddt pfnkvqsrvfwipgepnn-----AGNNEHC<del>GNIK</del>--APSLqA<del>NDAPDKTFLIICKR</del>FYVP  hcpsd<del>YYIDQHCYRIFNEEMNVEDAEWFC</del>TKQak<del>AHLVSIKSAKEAD</del>FVAWMTqnIeesfSHVS<del>IGLRVONKEKQC</del>-----stkwsgsvsydnI<del>LDLYITKCSLL</del>keTGFR-K<del>VFV</del>ASIGKIPFVCK<del>FP</del>PQC</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=9.30 (Å)  g-----KLYFKGNFYFSLIPKTYSAEQFCVSR--RNSHLTSVTESEQEFLYKTAGLI-----YWI<del>GLTKAGMEGDWS</del>WDDtpfnkvqsrvfwipgepnnAGNNEHC<del>GNIK</del>-----KAPsIqawNDAPDKTFLIICKR<del>FYVP</del>-p  -hcpsd<del>YYIDQHCYRIFNEEMNVEDAEWFC</del>TKqa<del>KGAHLVSIKSAKEAD</del>FVAWMTQNIeesfshVS<del>IGLRVONKEKQCSTK</del>SDG-----SSVSYDNL<del>LDLYITKCSLL</del>kkeTgfrKW----FV<del>AS</del>IGKIPFVCK<del>FP</del>PQC-</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=26.56% (34/128) simi=40.62% (52/128)  g-----KLYFKGNFYFSLIPKTYSAEQFCV--SRNSHLTSVTESEQEFLYKtagglIYWI<del>GLTKAGMEGDWS</del>WDD--TPFNK-VQSVRFWIPGE<del>pnnAGNNEHC</del>GNIKAPS-LQAN<del>DAPDKTFLIICKR</del>----yvp  -hcpsd<del>YYIDQHCYRIFNEEMNVEDAEWFC</del>tkq<del>KGAHLVSIKSAKEAD</del>-----VAW-VTQ-NIEESFSH<del>SIgLRVONKEKQCSTK</del>SDSSVSYDNI<del>LDLYITKCSLL</del>keTgfrKW<del>VFV</del>ASIGKIPFVCK<del>FP</del>pqc---</p> <p><b>Proposed:</b> aliSize=113 (resi) RMSD=1.77 (Å)  -----GKLYFKGNFYFSLIPKTYSAEQFCVSRN--SHLTSVTESEQEFLYKTAG-----gLIYWI<del>GLTKAGMEGDWS</del>wddtPF----NKVqSVr<del>fwipgepnnAGNNEHC</del>GNIK--APSLqA<del>NDAPDKTFLIICKR</del>FYVP  hcpsd<del>YYIDQHCYRIFNEEMNVEDAEWFC</del>TKQak<del>AHLVSIKSAKEAD</del>FVAWMTqnIeesf-SHVS<del>IGLRVONK-EKQC</del>S----TKwsgsvsydnI<del>LDLYITKCSLL</del>keTGFR-K<del>VFV</del>ASIGKIPFVCK<del>FP</del>PQC</p>
1042	<p>3bc7C (128)</p> <p>lj34A (129)</p>	M	21.88	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=2.07 (Å)  -----GKLYFKGNFYFSLIPKTYSAEQFCVSR-N-SHLTSVTESEQEFLYKTAG----G-LIYWI<del>GLTKAG-M-EGDWS</del>wddt pfnkvqsrvfwipgepnn-----AGNNEHC<del>GNIK</del>--APSLqA<del>NDAPDKTFLIICKR</del>pyvp  dcps<del>WSSYEHCYKPFKLYKTWDDAERFCTEQ</del>ak<del>GHLVSIESAGEAD</del>FVAQLVTeniqnTkSYVW<del>IGLRVQGEKQC</del>-----sewsgsvsyenw<del>EAESKTGLGLE</del>keTGFR-K<del>VNV</del>IYGGQNP<del>FVCEA</del>----</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=9.17 (Å)  gw-----KYFKGNFYFSLIPKTYSAEQFCVSR--NSHLTSVTESEQEFLYKTA-----GGLIYWI<del>GLTKAGMEGDWS</del>WDDTPfnkvqsVRFWIPGE<del>pnnAGNNEHC</del>GNIKap<del>SLOA</del>----NDAPDKTFLIICK-<del>rpyvp</del>  --dcpsgw<del>SSYEHCYKPFKLYKTWDDAERFCTEQ</del>ak<del>GHLVSIESAGEAD</del>FVAQLVTeniqnTKSYVW<del>IGLRVQGEKQC</del>SEW-----SDGSSVSYENW<del>EAESKTGLGLE</del>---EKETgfrk<del>VNV</del>IYGGQNP<del>FVCEA</del>----</p> <p><b>BLAST:</b> aliSize=59 (resi) iden=32.03% (41/128) simi=46.09% (59/128)  -----GKLYFKGNFYFSLIPKTYSAEQFCV--SRNSHLTSVTESEQEFLYKTAGGLI-----YWI<del>GLTKAGMEGDWS</del>WDDTPfnkvqsVRFWIPGE<del>pnnAGNNEHC</del>GNIKAPS-LQAN<del>DAPDKTFLIICKR</del>----rpyvp  dcps<del>WSSYEHCYKPFKLYKTWDDAERFCTEQ</del>ak<del>GHLVSIESAGEAD</del>FVAQLVTENIqnTksyVW<del>IGLRVQGEKQC</del>seWSDGSSV----SYENW<del>EAESKTGLGLE</del>---EKETgfrk<del>VNV</del>IYGGQNP<del>FVCEA</del>----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.79 (Å)  -----GKLYFKGNFYFSLIPKTYSAEQFCVSR-N-SHLTSVTESEQEFLYKTAG----G-LIYWI<del>GLTKAGMEGDWS</del>wddtPF----NKVqSVr<del>fwipgepnnAGNNEHC</del>GNIK--APSLqA<del>NDAPDKTFLIICKR</del>pyvp  dcps<del>WSSYEHCYKPFKLYKTWDDAERFCTEQ</del>ak<del>GHLVSIESAGEAD</del>FVAQLVTeniqnTkSYVW<del>IGLRVQGEKQC</del>-----SEwsgsvsyenw<del>EAESKTGLGLE</del>keTGFR-K<del>VNV</del>IYGGQNP<del>FVCEA</del>----</p>
1043	<p>lbyfA (123)</p> <p>loz7B (123)</p>	M	21.14	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=2.70 (Å)  -----DYEILFSDITMNYADAGTYQSRG--MALVLSaMRDSTMKAILAF-TE-VK<del>GHDYVWADNLODGAYN</del>fIwndgvsIptdsdlwspnep<del>snpq</del>-----SWQ--L<del>CVQIWSKY</del>LLDDVGC<del>GGARRV</del>ICEKELd  ncIpdwsveye<del>G</del>CYKVKERINWADA<del>EKF</del>TKQhkdGHLVLS--FRNSKE<del>DFV</del>ISLaFPmLN<del>DLVWIGLTDYWRD</del>CNW-----ewsdgaqIdyaW<del>DNerHCF</del>IYKNTD<del>QWTRRD</del>TWTF<del>SVCKCPA</del>-</p> <p><b>SARST:</b> aliSize=109 (resi) RMSD=9.05 (Å)  d-----YEILFSDITMNYADAGTYQSR--GMA<del>LVSaMRDSTMKAILAF</del>TEV<del>VKGHDYVWADNLODGAYN</del>fIwndgvsIptdsdlwspnep<del>SNPQSWQ</del>CVQIWSKYLLDDVGC<del>GGARRV</del>ICEKE-ld  -ncIpdwsveye<del>G</del>CYKVKERINWADA<del>EKF</del>TKQhkdGHLVLSFRNSKE<del>DFV</del>ISLaFPmLN<del>DLVWIGLTDYWRD</del>CNW--E<del>WSDGAQ</del>-----DYKAW<del>DNerHCF</del>IYKNTD<del>QWTRRD</del>TWTF<del>SVCKCPA</del>--</p> <p><b>BLAST:</b> aliSize=45 (resi) iden=26.83% (33/123) simi=36.59% (45/123)  d-----YEILFSDITMNYADAGTYQ--SRGMA<del>LVSaMRDSTMKAILAF</del>TEV<del>VKGHDYVWADNLODGAYN</del>fIwndgvsIptdsdlwspnep<del>SNPQSWQ</del>CVQIWSKYLLDDVGC<del>GGARRV</del>ICEKELd  -ncIpdwsveye<del>G</del>CYKVKERINWADA<del>EKF</del>TKQhkdGHLVLSFRNSKE<del>DFV</del>ISLaFPmLN<del>DLVWIGLTDYWRD</del>CNW--E<del>WSDGAQ</del>-----DYKAW<del>DNerHCF</del>IYKNTD<del>QWTRRD</del>TWTF<del>SVCKCPA</del>-----</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.81 (Å)  -----DYEILFSDITMNYADAGTYQSR-G-MALVLSaMRDSTMKAILAF-TeV--K<del>GHDYVWADNLODGAYN</del>fIwndgvsIptdsdlwspnep<del>SNPQSWQ</del>CVQIWSKYLLDDVGC<del>GGARRV</del>ICEKELd  ncIpdwsveye<del>G</del>CYKVKERINWADA<del>EKF</del>TKQhkdGHLVLS--FRNSKE<del>DFV</del>ISLaFPmLN<del>DLVWIGLTDYWRD</del>CNW--E<del>WSDGAQ</del>-----DYKAW<del>DNerHCF</del>IYKNTD<del>QWTRRD</del>TWTF<del>SVCKCPA</del>-</p>

1044	lbyfA (123)	M	12.20	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.74 (Å)  -----DYEILFSDETMNYADAGTYCQSRG--MALVLSsaMRDSTMVKAILAFTEV-K-GHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>sn</del>-----PQSWQLVQIWSK--YNLLDDVGGGARRVICEKELd  cplgws sfdqHCYKVFEPVKWTEAEEIEMQOHkgSRLAS--IHSSEEEAFVSKLASKaLkFTSMWICLNPNPKDCK-----wewsdnarfdykaWKRPHYITVMVVVpdRIFWFTRGCEKSVSFVCKFLT-</p> <p><b>SARST:</b> aliSize=108 (resi) RMSD=9.94 (Å)  d-----YEILFSDETMNYADAGTYCQSR--GMAVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>SNPQS</del>WQLCVQIWSKYNLLDDVGGGARRVICEKE-ld  -cplgws sfdqHCYKVFEPVKWTEAEEIEMQOHkgSRLAS--IHSSEEEAFVSKLASKaLkFTSMWICLNPNPKDCKWESDNARF-----DYKA--WKRPHYITVMVVVpdRIFWFTRGCEKSVSFVCKFLT--</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=15.45% (19/123) simi=26.83% (33/123)  d-----YEILfsDETMYADAGTYC--SRGMALVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>sn</del>-----wqlcvqiwsdynllddvgggarrvickeld  -cplgws sfdqHCYKVF--EPVKWTEAEEIEMQOHkgSRLAS--IHSSEEEAFVSKLASKaLkFTSMWICLNPNPKDCKWESDNARF--DYKA--WKRPHYITVMVVVpdRIFWFTRGCEKSVSFVCKFLT-----</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.96 (Å)  -----DYEILFSDETMNYADAGTYCQSR-G-MALVLSsaMRDSTMVKAILAFTEV-K-GHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>SNpq</del>SWQLVQIWSKY--NLLDDVGGGARRVICEKELd  cplgws sfdqHCYKVFEPVKWTEAEEIEMQOHkgSRLAS--IHSSEEEAFVSKLASKaLkFTSMWICLNPNPKDCKWESDNARF--DYKA--WKRPHYITVMVVVpdRIFWFTRGCEKSVSFVCKFLT-</p>
1045	lbyfA (123)	M	16.26	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.20 (Å)  -----DYEILFSDETMNYADAGTYCQSRG--MALVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>sn</del>-----SWQLVQIWSKY-N-LLDDVGGGARRVICEKELd  dcpsdwt aydqHCYLAIGEPQNWYEERFCTEQaKdGHLVLS--IQSREEGNFVAQLVSGFMhrSEiYVWICLRDRREEQCQN-----pewndgskiiyvnwkegESKMCQGLTKWTnFhDWNININEDLYPFVCKFSA-</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=9.08 (Å)  d-----YEILFSDETMNYADAGTYCQSR--GMAVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>SNpq</del>SWQLVQIWSKY--NLLDDVGGGARRVICEKE-ld  -dcpsdwt aydqHCYLAIGEPQNWYEERFCTEQaKdGHLVLS--IQSREEGNFVAQLVSGFMhrSEiYVWICLRDRREEQCQNPEWNDGSKI--IYVNWKEG-----ESKMCQGLTKWTnFhDWNININEDLYPFVCKFSA--</p> <p><b>BLAST:</b> aliSize=49 (resi) iden=20.33% (25/123) simi=39.84% (49/123)  dyeilfsd-----TMNYADAGTYC--SRGMALVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>SNPQS</del>WQLCVQIWSKYNLLDDVGGGARRVICE---keld  -----dcpsdwt aydqhcylaiGEPQNWYEERFCTEQaKdGHLVLS--IQSREEGNFVAQLVSGFMhrSEiYVWICLRDRREEQCQNPEWNDGSKI--IYVNWKEG-----LTKWTnFhDWNININEDLYPFVCKFSA----</p> <p><b>Proposed:</b> aliSize=110 (resi) RMSD=1.88 (Å)  -----DYEILFSDETMNYADAGTYCQSR-G-MALVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>SNpq</del>SWQLVQIWSKY-N-LLDDVGGGARRVICEKELd  dcpsdwt aydqHCYLAIGEPQNWYEERFCTEQaKdGHLVLS--IQSREEGNFVAQLVSGFMhrSEiYVWICLRDRREEQCQNPEWNDGSKI--IYVNWKEG-----SKMCQGLTKWTnFhDWNININEDLYPFVCKFSA-</p>
1046	lbyfA (123)	M	14.63	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.22 (Å)  -----D-YEILFSDETMNYADAGTYCQSRGMAVLSsaMRDSTMVKAILAFTEV-K--G-HDYVVGADNLDQGA--AYNflwndgvs lptdsdlwspnep<del>sn</del>-----Pq-SWQLVQIWSKY-N-LLDDVGGGARRVICEKELd  gclpdwssykgHCYKVFVKVGTWEDAEEKFVENSghLAS--IDSKEEADFVTKLASQltkFvYDAWICLRDESKTqCSP-----qwt dgs svvyenV-dEPTKCFGLDVHTeYrTWTDLPCGEKNPFICKS----</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=8.32 (Å)  d-----YEILFSDETMNYADAGTYCQSRGMAVLS--SsamrDSTMVKAILAFTEVKGHDYVVGADNLDQGA--AYNflwndgvs lptdsdlwspnep<del>SNPQS</del>WQLCVQIWSKYN--LLDDVGGGARRVICE--keld  -gclpdwssykgHCYKVFVKVGTWEDAEEKFVENSghLASiD---SKEEADFVTKLASQltkFvYDAWICLRDESKTqCSPQWTDGSSV-----VYE-----NDEPTKCFGLDVHTeYrTWTDLPCGEKNPFICKS----</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=21.95% (27/123) simi=42.28% (52/123)  dyeilfsdetm-----YADAGTYC--QSRG--MALVLSsaMRDSTMVKAILAFTEVKGHDYVVGADNLDQGAynflwndgvs lptdsdlwspnep<del>SNpq</del>SWQLCVQIWSKYNLLDDVGGGARRVICE--keld  -----gclpdwssykgHCYKVFVKVGTWEDAEEKFVENSghLASiD---SKEEADFVTKLASQltkFvYDAWICLRDESKTqCSPQWTDGSSVYEN-----VDEPT--KCFGLDVHTeYrTWTDLPCGEKNPFICKS----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=1.95 (Å)  -----D-YEILFSDETMNYADAGTYCQSRGMAVLSsaMRDSTMVKAILAFTEV-K--G-HDYVVGADNLDQGA--AYNflwndgvs lptdsdlwspnep<del>SNpq</del>SWQLCVQIWSKY-N-LLDDVGGGARRVICEKELd  gclpdwssykgHCYKVFVKVGTWEDAEEKFVENSghLAS--IDSKEEADFVTKLASQltkFvYDAWICLRDESKTqCSPQWTDGSSV--V--Y--NDEPT--KCFGLDVHTeYrTWTDLPCGEKNPFICKS----</p>
	luexA (125)			

1047	<p>lbyfA (123)</p> <hr/> <p>lj34B (123)</p>	M	18.70	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=2.58 (Å)  -----DYEILFSDEIMNYADAGTYQSR-G-MALVLSsaMRDSTMVKAIIAFTEV--KGHDYVVGADNLDQGAYnflwndgvs lptdsdlwspnepsn-----Pq-SWQLVQIWSKYLLDDVGGGARRVICEKELd  dcpsdwsyegHCYKPFSEPKNWADAENFCTQOhAgGHLVLS--FOSSEEDFVVKLAFQtfGHSIFWMLSNVWVWOCN-----wqwsnaamlrykaW-aEESYCYFKSTNKWRSRACRMMAQFVCFQA-</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=8.38 (Å)  d-----YEILFSDEIMNYADAGTYQSR--GMAVLSsaMRDSTMVKAIIAFTEVKGHDY--VVGADNLDQGAYNFLVNDGVSIPtdsdlwspnePSNPqSW---QLCVQIWSKYLLDDVGGGARRVICEKE-ld  -dcpsdwsyegHCYKPFSEPKNWADAENFCTQOhAgGHLVLS--FOSSEEDFVVKLAFQTFGHSifWMLSNVWVWOCN--NWQNSNAAM-----LRYK-AWaceSYCYFKSTNKWRSRACRMMAQFVCFQA--</p> <p><b>BLAST:</b> aliSize=54 (resi) iden=29.27% (36/123) simi=43.90% (54/123)  dyeil-----FSDIMNYADAGTYQSR--SRGMAVLS--SAMRDSSTMVKAIIAFTEVKGHDY--VVGADNLDQGAYNFLVNDGVSIPtdsdlwspnepsnpQSWqlCVQIWSKYLLDDVGGGARRVICE---keld  -----dcpsdwsyeghcykpfsepknwadaenfctqhagghlvsfgsseeadfvvk--LAF-QTFGHSifWMLSNVWVWOCN--NWQNSNAAMRYKA--WAE-----ESY--CVYFKSTNKWRSRACRMMAQFVCFfqa----</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=2.10 (Å)  -----DYEILFSDEIMNYADAGTYQSR-G-MALVLSsaMRDSTMVKAIIAFTEV--KGHDYVVGADNLDQGAY--NFLVNDGVSIPtdSdlwspnePSNPqSWQLCVQIWSKY--LLDDVGGGARRVICEKELd  dcpsdwsyegHCYKPFSEPKNWADAENFCTQOhAgGHLVLS--FOSSEEDFVVKLAFQtfGHSIFWMLSNV--WVWOCN--NWQNSNAAMR--Y--K--AWAE--ESYCYFKS--TnkWRSRACRMMAQFVCFQA-</p>
1048	<p>lbyfA (123)</p> <hr/> <p>ljwiB (123)</p>	M	15.45	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=2.44 (Å)  -----DYEILFSDEIMNYADAGTYQSRG--MALVLSsaMRDSTMVKAIIAFTEV--KGHDYVVGADNLDQGAYnflwndgvs lptdsdlwspnep snp-----QS-WQLVQIWSKYLLDDVGGGARRVICEKELd  gclpdwssykGHCVKVFVEKTWADA EKFKELVngGHLMS--VNSREEGEFISKLALekmRIVLVWIGLSHFWRICPL-----rwtDgarldyralSdEPICFVAESFHNKWIQWTNRKKSfVCKYRV-</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=9.03 (Å)  d-----YEILFSDEIMNYADAGTYQSR--GMAVLSsaMRDSTMVKAIIAFTEV--GH-DYVVG-ADNLDQGAYNFLVNDGVSIPtdsdlwspnePSNPqswQLCVQIWSKYLLDDVGGGARRVICEKE-ld  -gclpdwssykGHCVKVFVEKTWADA EKFKELVngGHLMS--VNSREEGEFISKLALekmRIVLVWIGLSHFWRIC--PLRWTdGARLD-----YRALSDepiCFVAESFHNKWIQWTNRKKSfVCKYRV--</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=14.63% (18/123) simi=26.83% (33/123)  d-----YEILFSDEIMNYADAGTYQSR--RMAVLSsaMRDSTMVKAIIAFTEVKGHDYVVGADNLDQGAYNFLVNDGVSIPtdsdlwspnep snpqsWQLCVQIWSKYLLDDVGGGARRVICEKELd  -gclpdwssyghcKVFVEKTI--WADA EKFKELVngGHLMS--VNSREEGEFISKLALekmRIVLVWIGLSHFWRICPLRWTdGARLDyral sdepicfvaesfhnkwiqwtcnrksfvckyrv-----</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.95 (Å)  -----DYEILFSDEIMNYADAGTYQSRG--MALVLSsaMRDSTMVKAIIAFTEV--KGHDYVVGADNLDQGAY--NFLVNDGVSIPtdSdlwspnePSNPqSWQLCVQIWS--KYNLLDDVGGGARRVICEKELd  gclpdwssykGHCVKVFVEKTWADA EKFKELVngGHLMS--VNSREEGEFISKLALekmRIVLVWIGLSHF--WRicPLRWTdGARLD--Y--R--ALSD--EPICFVAESFHNKWIQWTNRKKSfVCKYRV-</p>
1049	<p>lbyfA (123)</p> <hr/> <p>lv4IB (125)</p>	M	17.07	<p><b>TM-align:</b> aliSize=95 (resi) RMSD=2.71 (Å)  -----DYEILFSDEIMNYADAGTYQSR-G-MALVLSsaMRDSTMVKAIIAFTEV--KGHDYVVGADNLDQGAYnflwndgvs lptdsdlwspnepsn-----QSWQLVQIWSKYLLDDVGGGARRVICEKELd  gfccplgwsydeHCYQVFQOKMWEAEKFCtQhRgSHLVS--FHSSEEDFVVKLAFQtfGHSIFWMLSNVWVWOCN-----ewsdgtklDykawSGQSDITSKTTDQWLSMDSSKRYVCKFQA-</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.09 (Å)  d-----YEILFSDEIMNYADAGTYQSR--GMAVLS--SAmrdsTMVKAIIAFTEVKGHDYVVGADNLDQGAYNFLVNDGVSIPtdsdlwspnepsnpQSWQLVQIWSKYLLDDVGGGARRVICEKE-ld  -gfccplgwsydeHCYQVFQOKMWEAEKFCtQhRgSHLVSfhsSE--EVDVFSKTSPLKhdFVWMLSNVWNEC-AKESDGTklDyKAW-----SGQSDITSKTTDQWLSMDSSKRYVCKFQA--</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=26.83% (33/123) simi=42.28% (52/123)  d-----YEILFSDEIMNYADAGTYQSR--SRGMAVLSsaMRDSTMVKAIIAFTEVKGHDYVVGADNLDQGAYNFLVNDGVSIPtdSDLWSPNEPSNPqswqlCVQIWSKYLLDDVGGGARRVICE---keld  -gfccplgwsydehcQVF--QOKMWEAEKFCtQhRgSHLVS--FHSSEEDFVVKLAFQtfGHSIFWMLSNVWNECAKE--SDGTklDyKAWSGQSD-----CITSKTTDQWLSMDSSKRYVCKFqa----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=2.46 (Å)  -----DYEILFSDEIMNYADAGTYQSRG--MALVLSsaMRDSTMVKAIIAFTEV--KGHDYVVGADNLDQGAYnflwndgvs lPTDSDLWSPNEPSNPQSWQLVQIWS--KYNLLDDVGGGARRVICEKELd  gfccplgwsydeHCYQVFQOKMWEAEKFCtQhRgSHLVS--FHSSEEDFVVKLAFQtfGHSIFWMLSNV--WNEC-----AKESDGTklDyKAWSGQSDITSKTTDQWLSMDSSKRYVCKFQA-</p>

1050	<p><b>lbyfA</b> (123)</p> <hr/> <p><b>liodA</b> (129)</p>	M	16.26	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.54 (Å)  -----D-YEILFSDETMNYADAGTYQQR-G-MALVLSsaMRDSTMVKAII LAFTEV-KGH--DYVVGADNLDG-AYNflwndgvs lptdsdlwspnepns-----Pq-SWQLCVQIWSKY-N-LLDDVGGGARRVICeKeld  dcssgwsyEgHCYKVFQSKTWADAESFCTKQvNgGHLVLS--IESSGEADFGQLIAQkIKSakiHVVIGLRAQNKKEKQCS-----IewsdgssisyenwiE-eESKKCLGVHIEtgFhKWENFYEQQDPFVChA---</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=8.97 (Å)  d-----YEILFSDETMNYADAGTYQQR--GMAVLSsaMRDSTMVKAII LAFTEV---GHDYVVGADNLDGAYN-FLVNDGVSLptdsdlwspnepSNP-QSWQLCVQIWSKYN--LLDDVGGGARRVICe-keld  -dcssgwsyegHCYKVFQSKTWADAESFCTKQvNgGHLVLS--IESSGEADFGQLIAQkIKSakiHVVIGLRAQNKKEKQCSIEVSDGSSI-----SYE----NWIeEESKKCLGVHIEtgFhKWENFYEQQDPFVChA----</p> <p><b>BLAST:</b> aliSize=56 (resi) iden=25.20% (31/123) simi=45.53% (56/123)  d-----YEILFSDETMNYADAGTYQQR--SRMAVLS-SAMRDSTMVKAII LAFTEV---GHDYVVGADNLDGAYN-FLVNDGVSLPTDSdlwspNEPSNPqswQLCVQIWSKYNLLDDVGGGARRVICe-keld  -dcssgwsyeghcKVFQSKTI--WADAESFCTKQvNgGHLVLSIESSGEADFGQLIAQkIKSakiHVVIGLRAQNKKEKQCSIEVSDGSSI--YENWIIEEESKK-----CLGVHIEtgFhKWENFYEQQDPFVChA----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=1.89 (Å)  -----D-YEILFSDETMNYADAGTYQQR-G-MALVLSsaMRDSTMVKAII LAFTEV-KGH--DYVVGADNLDG-AYNflwndgvs lptdsdlwspNEPSNPqswQLCVQIWSKY-N-LLDDVGGGARRVICeKeld  dcssgwsyEgHCYKVFQSKTWADAESFCTKQvNgGHLVLS--IESSGEADFGQLIAQkIKSakiHVVIGLRAQNKKEKQCSIEVSDGSSI--YENWIIEEESKK-----SKKCLGVHIEtgFhKWENFYEQQDPFVChA----</p>
1051	<p><b>lbyfA</b> (123)</p> <hr/> <p><b>luosA</b> (133)</p>	M	14.63	<p><b>TM-align:</b> aliSize=96 (resi) RMSD=2.46 (Å)  -----DYEILFSDETMNYADAGTYQSRG--MALVLSsaMRDSTMVKAII LAFTEV-K-G--HDYVVGADNLDG-AYNflwndgvs lptdsdlwspnepns-----NPqsWQLCVQIWSKY-N-LLDDVGGGARRVICeKELD-  hcpsdwydydQHCFYRIFNEEINWEDAWEFCTKQakGHLVLS--IKSAKEADFVAWMVTQnIEEs fSHVSIIGLRVQNKKEKQCS-----tkwsdgs svsydnllDLY--ITKCSLLKKEtgFrKWFVAsCIKIPFVCKFPPOc</p> <p><b>SARST:</b> aliSize=110 (resi) RMSD=8.52 (Å)  d-----YEILFSDETMNYADAGTYQQR--GMAVLSsaMRDSTMVKAII LAFTE---VKGHDYVVGADNLDGAYN-FLVNDGVSLptdsdlwspNEPSNPQSWQL-CVQIWSKYN--LLDDVGGGARRVICeKELD-d  -hcpsdwydydQHCFYRIFNEEINWEDAWEFCTKQakGHLVLS--IKSAKEADFVAWMVTQnIEEs fSHVSIIGLRVQNKKEKQCSIEVSDGSSV-----SYDNLLDLYITKCSLLKKEtgFrKWFVAsCIKIPFVCKFPPOc-</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=21.95% (27/123) simi=42.28% (52/123)  d-----YEILFSDETMNYADAGTYQQR--SRMAVLS-SAMRDSTMVKAII LAFTEV---VKGHDYVVGADNLDGAYN-FLVNDGVSLPTDSdlwspNEPSNPQSWQL-CVQIWSKYNLLDDVGGGARRVICeKELD-  -hcpsdwydydqhcYRIFNEEINWEDAWEFCTKQakGHLVLSIKSAKEADFVAWMVTQnIEEs fSHVSIIGLRVQNKKEKQCSIEVSDGSSVSYDNllDLYITKCSllKKEtgFrKWFVAsCIKIPFVCKFPPOc-----qiwsdynllddvgcgarrvickeld</p> <p><b>Proposed:</b> aliSize=109 (resi) RMSD=2.04 (Å)  -----DYEILFSDETMNYADAGTYQSRG--MALVLSsaMRDSTMVKAII LAFTEV-K-G--HDYVVGADNLDG-AYNflwndgvs lptdsdlwspNEPSNPqswQLCVQIWSKY-N-LLDDVGGGARRVICeKELD-  hcpsdwydydQHCFYRIFNEEINWEDAWEFCTKQakGHLVLS--IKSAKEADFVAWMVTQnIEEs fSHVSIIGLRVQNKKEKQCSIEVSDGSSVSYDNllDLYITKCSllKKEtgFrKWFVAsCIKIPFVCKFPPOc</p>
1052	<p><b>lbyfA</b> (123)</p> <hr/> <p><b>lj34A</b> (129)</p>	M	13.82	<p><b>TM-align:</b> aliSize=94 (resi) RMSD=2.50 (Å)  -----DYEILFSDETMNYADAGTYQQR-G-MALVLSsaMRDSTMVKAII LAFTEV-K--G-HDYVVGADNLDG-AYNflwndgvs lptdsdlwspnepns-----Pq-SWQLCVQIWSKY-N-LLDDVGGGARRVICeKeld  dcpsgwsyegHCYKPFKLYKTWDAERFCTEQakGHLVLS--IESAGEADFVAQLVTEnIqnTkSYVVIIGLRVQKKEKQCS-----IewsdgssisyenwiE-aESKTCLEKETGFrKWNVIYCCQONPFVChA---</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.00 (Å)  d-----YEILFSDETMNYADAGTYQQR--GMAVLSsaMRDSTMVKAII LAFTEV---KGHDYVVGADNLDGAYN-FLVNDGVSLptdsdlwspNEPSNP-QSWQLCVQIWSKYN--LLDDVGGGARRVICe-keld  -dcpsgwsyegHCYKPFKLYKTWDAERFCTEQakGHLVLS--IESAGEADFVAQLVTEnIqnTKSYVVIIGLRVQKKEKQCSIEVSDGSSI-----SSVSYENWIEAESKTCLEKETGFrKWNVIYCCQONPFVChA----</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=19.51% (24/123) simi=38.21% (47/123)  dyeilfsdetmny-----DAGTYQ--SRMAVLS-SAMRDSTMVKAII LAFTEVKGHDYVVGADNLDGAYN-FLVNDGVSLPTDSdlwspNEPSNPqswQLCVQIWSKYNLLDDVGGGARRVICe-keld  -----dcpsgwsyeghcypklyktwdaerfcteqakGHLVLSIESAGEADFVAQLVTENIQNTKSYVVIIGLRVQKKEKQCSIEVSDGSSI--SYENWIEAESKTCLEKETGFrKWNVIYCCQONPFVChA----</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=2.01 (Å)  -----DYEILFSDETMNYADAGTYQQR-G-MALVLSsaMRDSTMVKAII LAFTEV-K--G-HDYVVGADNLDG-AYNflwndgvs lptdsdlwspNEPSNPqswQLCVQIWSKY-N-LLDDVGGGARRVICeKeld  dcpsgwsyegHCYKPFKLYKTWDAERFCTEQakGHLVLS--IESAGEADFVAQLVTEnIqnTkSYVVIIGLRVQKKEKQCSIEVSDGSSI--SYENWIEAESKTCLEKETGFrKWNVIYCCQONPFVChA----</p>

1053	<p>1kzal (115)</p> <p>1oz7B (123)</p>	M	19.13	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.05 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-GTVATPRNAEENRAIQNVA---KDVAFLEITDQRTEnVfedltgnrvrytnwnegepnnvg-----S-GENCVVLLTN-GKINDVPCSDSFLVCEFS-  nc1pdwsVYEGYCYKVFKERMWNWADAEKFKTKqhkDHLVSFRNSKEVDFVISAfPmlkNDLVWIGLTDYWRD-cN-----wewsdaqldykawDnERHCFIYKNTdNQWTRRDITWTISFVCKCPa</p> <p><b>SARST:</b> aliSize=84 (resi) RMSD=5.85 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QGTVATPRNAEENRAIQNVA---DVAFLGITD---QRT-----ENVFED--LTGnrvrytnwnegepnnvgsgencvvl1tngKINDVPCSDSFLVCEF--s  -nc1pdwsVYEGYCYKVFKERMWNWADAEKFKTKqhkDHLVSFRNSKEVDFVISAfPmlkNDLVWIGLTDYWRDcNwewsdaqldykawDnERHCFIYkNTD-----QWTRRDITWTISFVCKCPa-</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=21.74% (25/115) simi=43.48% (50/115)  nvgkkyfmssvr-----RPLNRKALCSELQ--QTVATPRNAEENRAIQNVA---NRAIQNVAKDVAFLEITDQRTENVFDLTLNVRVRYTNWnegepnnvgsgencvlltngKINDVPCSDSFLVCE---fs  -----nc1pdwsVYEGYCYKVFKERMWNWADAEKFKTKqhkDHLVSFRNSKEVDFVISAfPMLKNDLVWIGLTDYWRDCNWEWSDAQLDYKAND---NE----RHCFIYKNTDQWTRRDITWTISFVCKcpa--</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.68 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-GTVATPRNAEENRAIQNVA---KDVAFLEITDQRTeNV-FEDLTLNVRVRYTNWnegepnnvsgencvlltngKINDVPCSDSFLVCEFS-  nc1pdwsVYEGYCYKVFKERMWNWADAEKFKTKqhkDHLVSFRNSKEVDFVISAfPmlkNDLVWIGLTDYWR-DCNwewsdaqldykawDnERHCFIYKNTdNQWTRRDITWTISFVCKCPa</p>
1054	<p>1kzal (115)</p> <p>1ukmB (124)</p>	M	16.52	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.28 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-Q-GTVATPRNAEENRAIQNVA---K--DVAFLGITDQRTENVfedltgnrvrytnwnegepnnv-----GSGENCVVLLTN---GKINDVPCSDSFLVCEFS-  cplgwsSFDQHCYKVFEPVKNWTEAEEICMQQhKGSRLASIHSSSEEEAFVSKLaskaLkftSMWIGLNNPWKDC-----wewsdnarfdykawKRRPYCTVMVVKpdrIFWFRTRGCEKSVSFVCKELt</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=9.81 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QGTVATPRNAEENRAIQNVA---VAND-VAFLEITDQRTEN-VFEDLTLNVRVRYTNWnegepnnvsgencvlltngKINDVPCSDSFLVCE---s  -cplgwsSFDQHCYKVFEPVKNWTEAEEICMQQhKGSRLASIHSSSEEEAFVSKLaskaLkftSMWIGLNNPW-KDCkEWSDNARFDKAKA----WKRPPYCTVMVVKpdrIFWFRTRGCEKSVSFVCKELt-</p> <p><b>BLAST:</b> aliSize=43 (resi) iden=20.00% (23/115) simi=37.39% (43/115)  nvgkkyfmssvrrmplnr-----KALCSEL-QGTVATPRNAEENRAIQNVA---KDVAF-----LITDQRTENVFDLTLNVRVRYTNWnegepnnvsgencvlltngK---INDVPCSDSFLVCE---s  -----cplgwsSFDQHCYKVFEPVKNWTEAEEICMQQhKGSRLASIHSSSEEEAFVSKLaskaLkftSMWIGLNNPWKDC-KWSDNARFDKAKA---RRPYCTVMVVKpdrIFWFRTRGCEKSVSFVCKELt-</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.64 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-GTVATPRNAEENRAIQNVA---K--DVAFLGITDQRTENV-FEDLTLNVRVRYTNWnegepnnvsgencvlltngKINDVPCSDSFLVCEFS-  cplgwsSFDQHCYKVFEPVKNWTEAEEICMQQhKGSRLASIHSSSEEEAFVSKLaskaLkftSMWIGLNNPWKDC-KWSDNARFDKAKA---RRPYCTVMVVKpdrIFWFRTRGCEKSVSFVCKELt</p>
1055	<p>1kzal (115)</p> <p>1ukmA (131)</p>	M	22.61	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.88 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-GTVATPRNAEENRAIQNVA-KD-----VAFLGITDQRT-T--ENVfedltgnrvrytnwnegepnn-----VG--SGENCVVLLT-N--GKINDVPCSDSFLVCEFS-  dcpsdwtAYDQHCYLAIGEPQNWYEAERFTEqAkDHLVSIQSREEGNFVAQLVSGfmhrseiYVWIGLRRReEqcN-----pewndgskiiyvNWKegESKMCQGLTKWInfHDWNNINCELYPFVCKFsa</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=9.51 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QGTVATPRNAEENRAIQNVA-----VAKDVAFLEITDQRTENV--FEDLTLNVRVRYTNWnegepnnvsgencvlltngKINDVPCSDSFLVCE---s  -dcpsdwtAYDQHCYLAIGEPQNWYEAERFTEqAkDHLVSIQSREEGNFVAQLVSGfmhrSEIY-VWIGLRRREEQcNPEWNDISKIIVVWKEG-----ESKMCQGLTKWInfHDWNNINCELYPFVCKFsa-</p> <p><b>BLAST:</b> aliSize=57 (resi) iden=29.57% (34/115) simi=49.57% (57/115)  nvgkkyfmssvrrm-----PLN---RKAALCSEL--QGTVATPRNAEENRAIQNVA---KDV-AFLGITDQRTENV-FEDLTLNVRVRYTNWnegepnnvsgencvlltngKINDVPCSDSFLVCEFS-  -----dcpsdwtAYDQHCYLAIGEPQNWYEAERFTEqAkDHLVSIQSREEGNFVAQLVSGfmhrSEIYVWIGLRRREEQcNPEWNDISKIIVVWKEG-ESKMCQGLTKWInfHDWNNINCELYPFVCKFsa</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=1.34 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-GTVATPRNAEENRAIQNVA-KD-----VAFLGITDQRT-T--ENV-FEDLTLNVRVRYTNWnegepnnvsgencvlltngKINDVPCSDSFLVCEFS-  dcpsdwtAYDQHCYLAIGEPQNWYEAERFTEqAkDHLVSIQSREEGNFVAQLVSGfmhrseiYVWIGLRRReEqcNPEWNDISKIIVVWKEG-----ESKMCQGLTKWInfHDWNNINCELYPFVCKFsa</p>



1056	<p>lkzal (115)</p> <hr/> <p>luexA (125)</p>	M	19.13	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=1.80 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSELOQTIVATPRNAENRAIQNVV---K---DVAFLGITDQRT--ENVfedl tgnrvrytnwnegepnn-----VGSGENCVLLT--N-GKWNVPCSDSFLVWCEFS-  gclpdwsSYKGHCYKVFVKVGTWEDAEKFCVENSCHLASIDSKFEADFTKLA sqtLtkfvYDfWICLRDESKtqqCS-----pqtwdgssvvyenVDEPTKCFGDVHTeyRTWTLPCGEKNPFIICKS-</p> <p><b>SARST:</b> aliSize=101 (resi) RMSD=8.48 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSELOQTIVATPRNAENRAIQNV-----AKDVAFLEITDqRTENVEEDL-----TNRVRTNWnegepnnvGSGENCVLLTNG---KWNVPCSDSFLVWCE-fs  -gclpdwsSYKGHCYKVFVKVGTWEDAEKFCVENSCHLASIDSKFEADFTKLA sqtLtkfvYDfWICLR---DESKTQOCspqtDfSSVVENV-----DEPTKCFGDVHTeyrTWTLPCGEKNPFIICKs--</p> <p><b>BLAST:</b> aliSize=47 (resi) iden=25.22% (29/115) simi=40.87% (47/115)  nvgkkyfmssvrrmplnr-----KALCSELOQTIVATPRNAE-----NRRAIQNVAKDV---FLEGITDQ-RTENVEEDL--ENRVRTNWNEgePNNvgSGENCvLLTNGKWNVPCSDSFLVWCE-fs  -----gclpdwsSYKGHCYKVFVKVGTWEDAEKFCVENSCHLASIDSKFEADFTKLA sqtLtkfvYDfWICLRDESKTQOCSPQWtdfSSVVENVDE--PTKC-FGLD--VHTEYRTWTLPCGEKNPFIICKs--</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.53 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSELOQTIVATPRNAENRAIQNVV---K---DVAFLGITDQRT--eNVFEDLTGNRVRTNWnegepnnvGSGENCVLLT--N-GKWNVPCSDSFLVWCEFS-  gclpdwsSYKGHCYKVFVKVGTWEDAEKFCVENSCHLASIDSKFEADFTKLA sqtLtkfvYDfWICLRDESKtqq-CSPQWtdfSSVVENV-----DEPTKCFGDVHTeyRTWTLPCGEKNPFIICKS-</p>
1057	<p>lkzal (115)</p> <hr/> <p>lj34B (123)</p>	M	17.39	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.08 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-ITVATPRNAENRAIQNVV---K---DVAFLGIT-DQRTENVfedl tgnrvrytnwnegepnn-----VGSGENCVLLT--NGKWNVPCSDSFLVWCEFS-  dcpsdwsSYEGHCYKPFSEPKNWADAEENFTQqHagCHLVSFQSSEADFFVVKLA fqtFghSIFWMGLSNVWNOCN-----wqwsnaamlrykaWAEESYCVYFKStNNKWSRACRMMAQFVCEFa</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=10.16 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QITVATPRNA-----EENRAIQNVAKDVAFLEITDQRTENVEEDLTGNRVRTNWnegepnnvGSGENCVLLTNGKWNVPCSDSFLVWCE--s  -dcpsdwsSYEGHCYKPFSEPKNWADAEENFTQqHagCHLVSFQSSEadffvVKLAfqtFghSIFWMGLSNVWNOCNWQWSNAAMLRYKAWAE-----ESYCVYFKStNNKWSRACRMMAQFVCEFa-</p> <p><b>BLAST:</b> aliSize=44 (resi) iden=23.48% (27/115) simi=38.26% (44/115)  nvgkkyfmssvrrm-----LNRAK---LSELO--ITVATPRNAE-----NRRAIQNVAKDVAFLEITDQRTENVEEDLTGNRVRTNWNEgePnnvgsGENCVLLT--NGKWNVPCSDSFLVWCE--s  -----dcpsdwsSYEGHCYKPFSEPKNWADAEENFTQqHagCHLVSFQSSEadffvVKLAfqtFghSIFWMGLSNVWNOCNWQWSNAAMLRYKAWAE-E-----SYCVYFKStNNKWSRACRMMAQFVCEFa-</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.68 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-ITVATPRNAENRAIQNVV---K---DVAFLGITDQ--rtENVEEDLTGNRVRTNWnegepnnvGSGENCVLLT--NGKWNVPCSDSFLVWCEFS-  dcpsdwsSYEGHCYKPFSEPKNWADAEENFTQqHagCHLVSFQSSEADFFVVKLA fqtFghSIFWMGLSNVwn--QCWQWSNAAMLRYKAW-----AEESYCVYFKStNNKWSRACRMMAQFVCEFa</p>
1058	<p>lkzal (115)</p> <hr/> <p>ljwiB (123)</p>	M	16.52	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.32 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-Q-ITVATPRNAENRAIQNVV---KDVAFLEGITDQ-RTENVfedl tgnrvrytnwnegepnnv-----GS-GENCVLLTN-GKWNVPCSDSFLVWCEFS-  gclpdwsSYKGHCYKVFKEKTWADAEKFCKElvngCHLMSVNSREEGEFISKLAlekMRIVLVWIGLSHFwRICPL-----rwtDgarldyralSDEPICFVAESFhNKWIQWTNRKKSFFVCKYRv</p> <p><b>SARST:</b> aliSize=83 (resi) RMSD=6.92 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QITVATPRNAENRAIQNV-----VAKDVAFLEIT-----DQ-----RTENVFED-----LTGNrvrytnwnegepnnvgsGENcvlltngKWNVPCSDSFLVWCE--s  -gclpdwsSYKGHCYKVFKEKTWADAEKFCKElvngCHLMSVNSREEGEFISKLAlekMRIVLVWIGLSHFwricplrwtDgarldyralSDEPICFvaesFHN-----KWIQWTNRKKSFFVCKYrv-</p> <p><b>BLAST:</b> aliSize=40 (resi) iden=20.87% (24/115) simi=34.78% (40/115)  nvgkkyfmssvrrmplnr-----KALCSELQ--ITVATPRNAENRAIQNVkdvafLgITDQRTENVFEDLTGN-RVRYTNWNEEPNNVG--SGEN--VLLT--NGKWNVPCSDSFLVWCE--s  -----gclpdwsSYKGHCYKVFKEKTWADAEKFCKElvngCHLMSVNSREEGEFISKLA-----LEKMRIVLVWIGLSHFwRICPLRWTDGARLDYRALSDDEPICFVAESfHNKWIQWTNRKKSFFVCKYrv-</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.69 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSE-LQ-ITVATPRNAENRAIQNVV---KDVAFLEGITDQ--rtENVFEDLTGNRVRTNWNEgePnnvgsGENCVLLTN-GKWNVPCSDSFLVWCEFS-  gclpdwsSYKGHCYKVFKEKTWADAEKFCKElvngCHLMSVNSREEGEFISKLAlekMRIVLVWIGLSHFwR--ICPLRWTDGARLDYRALSD-----EPICFVAESFhNKWIQWTNRKKSFFVCKYRv</p>

1059	<p>lkzal (115)</p> <hr/> <p>lv4lB (125)</p>	M	17.39	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.03 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-LQ-GTVATPRNAENRAIQNVA---K---VAFLGIT-DORTENVfedltgnrvrytnwEgepnnv-----GSGENCVLL-LNGKNDVPCSDSFLVCEFS-  gfcclgwsSYDEHCYQVFOQKNWEDA EKFC TQqHRgSHLVSFHSSEVDFVVSKTspiLkhFVVMGLSNVWNECA-----kewsdg tkldykawSGQSDITSKtIDNQLSMDCSSKRYVVKFKQa</p> <p><b>SARST:</b> aliSize=105 (resi) RMSD=9.80 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QGTVATPRNAENRAIQNVA---IQNVAKVAFLGITDORTENVFEDLTGNRVRTNNEgepnnvsgGENCVLL-LNGKNDVPCSDSFLVCEFS--s  -gfcclgwsSYDEHCYQVFOQKNWEDA EKFC TQqHRgSHLVSFHSSEVDFVVSktSPI LKH FVVMGLSNVWNECAKFWSDTKLDYKA-----SGQ---SDITSKtIDNQLSMDCSSKRYVVKFKqa-</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=14.78% (17/115) simi=27.83% (32/115)  nvgkkyfmssvrrmplnrakalcselqgtvatprnaenraiqnv-----VAFLGITDORTENVFEDLTGNRVRTNNEgepnnvsgGENCVLL-LNGKNDVPCSDSFLVCEFS--s  -----gfcclgwsSYDEHCYQVFOQKNWEDA EKFC TQqHRgSHLVSFHSSEVDFVVSktspiLkhFVVMGLSNVWNECAKFWSDTKLDYKA-----SGQ---SDITSKtIDNQLSMDCSSKRYVVKFKqa-</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.56 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-LQ-GTVATPRNAENRAIQNVA---K---VAFLGIT-DORTENVFEDLTGNRVRTNNEgepnnvsgGENCVLL-LNGKNDVPCSDSFLVCEFS-  gfcclgwsSYDEHCYQVFOQKNWEDA EKFC TQqHRgSHLVSFHSSEVDFVVSKTspiLkhFVVMGLSNVWNECAKFWSDTKLDYKA-----SGQ---SDITSKtIDNQLSMDCSSKRYVVKFKQa</p>
1060	<p>lkzal (115)</p> <hr/> <p>liodA (129)</p>	M	17.39	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.04 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-LQ-GTVATPRNAENRAIQNVA---KD---VAFLGITDORT-ENVfedltgnrvrytnwEgepnn-----VSGGENCVLLT--N-GKNDVPCSDSFLVCEFS  dcssgwsSYEGHCYKVFQKSKTWADAESFCTKQvNgHLVSI ESSGADFVGQLIaqkIKsakiHVVWIGLRAKNEKQC-----siewsdgssi syenwiEEESKKCLGVHIetGfHKWENFYEQQDPFVCHA-</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=9.51 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QGTVATPRNAENRAIQNVA---VA---VAFLGITDORTENVfedltgnrvrytnwEgepnnvsgGENCVLLTNGK--NDVPCSDSFLVCEFS-  -dcssgwsSYEGHCYKVFQKSKTWADAESFCTKQvNgHLVSI ESSGADFVGQLIaqkIKSakiHVVWIGLRA-----NKEKQCS-----IEWSDSSISyenwiEEESKKCLGVHIetGfHKWENFYEQQDPFVCHA--</p> <p><b>BLAST:</b> aliSize=30 (resi) iden=18.26% (21/115) simi=26.09% (30/115)  nvgkkyfmssvrrmplnrakalcselqgtvatprnaenraiqnv-----AKDVAFLGITDORTENVFEDLTGNRVRTNNEgepnnvsgGENCVLLTNGK--KNDVPCSDSFLVCEFS-  -----dcssgwsSYEGHCYKVFQKSKTWADAESFCTKQvNgHLVSI ESSGADFVGQLIaqkIKSakiHVVWIGLRAKNEKQCSIEWSDSSISyenwiEEESKKCLGVHIetGfHKWENFYEQQDPFVCHA--</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=1.53 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-LQ-GTVATPRNAENRAIQNVA---KD---VAFLGITDORT-ENVFEDLTGNRVRTNNEgepnnvsgGENCVLLT--N-GKNDVPCSDSFLVCEFS  dcssgwsSYEGHCYKVFQKSKTWADAESFCTKQvNgHLVSI ESSGADFVGQLIaqkIKsakiHVVWIGLRAKNEKQCIEWSDSSISyenwiEEESKKCLGVHIetGfHKWENFYEQQDPFVCHA-</p>
1061	<p>lkzal (115)</p> <hr/> <p>luosA (133)</p>	M	15.65	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=1.99 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSELQ--GTVATPRNAENRAIQNVA---K---DVAFLGITDORT---ENVfedltgnrvrytnwEgepnn-----VSGGENCVLLT--N-GKNDVPCSDSFLVCEFS---  hcpsdwyYDQHCYRIFNEENWEDA EWFCTKQakGHLVSIKSAKEADFAWVMtqnIeesfSHVSI GLRVQNKekqCS-----tkwsdgssvsydnlLDLYITKCSLLKKEtGfRkWFVASCIGKIPFVCKPppqc</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=9.83 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--QGTVATPRNAENRAIQNV-----AKDVAFLGITDORTE--NVFEDLTGNRVRTNNEgepnnvsgGENCVLLTNGK--NDVPCSDSFLVCEFS--s  -hcpsdwyYDQHCYRIFNEENWEDA EWFCTKQakGHLVSIKSAKEADFAWVMtqnIeesfSHVSI GLRVQNKekqCSKWSWSSSNDLLD-----LYITK-----SllkktgfrkwFVASCIGKIPFVCKPppqc-</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=19.13% (22/115) simi=29.57% (34/115)  nvgkkyfmssvrrmplnrakalcselqgtvatprnaenraiqnv-----AKDVAFLGITDORTENVFEDLTGNRVRTNNEgepnnvsgGENCVLLTNGK--KNDVPCSDSFLVCEFS--s  -----hcpsdwyYDQHCYRIFNEENWEDA EWFCTKQakGHLVSIKSAKEADFAWVMtqnIeesfSHVSI GLRVQNKekqCSKWSWSSSNDLLDLYITKCSLLKKEtGfRkWFVASCIGKIPFVCKPppqc-</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.36 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSELQ--GTVATPRNAENRAIQNVA---K---DVAFLGITD-----rteNVFEDLTGNRVRTNNEgepnnvsgGENCVLLT--N-GKNDVPCSDSFLVCEFS--s  hcpsdwyYDQHCYRIFNEENWEDA EWFCTKQakGHLVSIKSAKEADFAWVMtqnIeesfSHVSI GLRVQNKekq-----CSTKWSWSSSNDLLDLYITKCSLLKKEtGfRkWFVASCIGKIPFVCKPppqc</p>

1062	lkzal (115)	M	20.87	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=1.93 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-Q-GTVATPRNAEENRAIQNVA---K----DVAFLGITDQR-T-ENVfedltgnrvrytnwngepnn-----VGSGENCVWLT--N-GKWNVPCSDSFLVCFs  dcpsgwsSYEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAGEADFVAQLVtenIqntkSYVWIGLRVQgkEkQC-----ssewsdgssvsyenwiEAESKTCLGLEKtGfRKWNVIYGOQNPFCa-</p> <p><b>SARST:</b> aliSize=85 (resi) RMSD=11.67 (Å)  n-----VGKKYFMSSVRRMPLNRKALCSEL--Q-GTVATPRNAEENRAIQN-----VAKD-----VAFGLITDORTENVFED--LTgnrvrytnwngepnnvsgcncvlltNGKWNVPCSDSFLVCFE-fs  -dcpsgwsSYEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAGEADFVAQLVtenIqntkSYVWIGLRVQgkEkQC-----ssewsdgssvsyenwiEAESKTCLGLEKtGfRKWNVIYGOQNPFCa--</p> <p><b>BLAST:</b> aliSize=34 (resi) iden=22.61% (26/115) simi=29.57% (34/115)  nvgkkyfmssvrrmplnrakalcselqgtvatprnae-----DVAFLGITDORTENVF--DLTNRVRIITNNEGEpnnvsgsGENCVWLT--LTNG--KWNVPCSDSFLVCFE-fs  -----dcpsgwsSYEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAGEADFVAQLVtenIqntkSYVWIGLRVQgkEkQC-----ssewsdgssvsyenwiEAESKTCLGLEKtGfRKWNVIYGOQNPFCa--</p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=1.53 (Å)  -----NVGKKYFMSSVRRMPLNRKALCSEL-Q-GTVATPRNAEENRAIQNVA---K----DVAFLGITDQR--tENVFDLTNRVRIITNNEGEpnnvsgsGENCVWLT--N-GKWNVPCSDSFLVCFEfs  dcpsgwsSYEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAGEADFVAQLVtenIqntkSYVWIGLRVQgkEkQC-----ssewsdgssvsyenwiEAESKTCLGLEKtGfRKWNVIYGOQNPFCa-</p>
1063	lyttA (115)	M	19.13	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.18 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEV-VA---KTS AFLGITDEVTeg-Qfmyvtggrltytnwkdepndhg-----S-GEDCVTIV-DNGLNDISQASHTAVCFEPA  ncldpwsvYEGYCYKVFKERLNWADA EKFC TKQhkdCHLV SFRNSKEVDFV I S I Afpm1kNDLVWIGLTDYWRD-cN-----wewsdgaqldykawDnERHCFIYKnTDNQWTRRD TWTF SFVCKCPA</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.43 (Å)  s-----GKKFFVTNHERMPFSKVKALCSEL--RGTVAIPRNAEENKAIQEV-----AKTS AFLGITDEVTeg-QfmyvtggrltytnwkdepndhgsgedCVTIV-DNGLNDISQASHTAVCFEPA-a  -ncldpwsvYEGYCYKVFKERLNWADA EKFC TKQhkdCHLV SFRNSKEVDFV I S I Afpm1kNDLVWIGLTDYWRDCNWEWSDAQLDKADNERHCF-----LYKNTDNQWTRRD TWTF SFVCKCPA</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=23.48% (27/115) simi=41.74% (48/115)  sgkkffvtnh-----ERM PFSKVKALCSEL--RGTVAIPRNAEENKAIQEV-----KTS AFLGITDEVTeg-QfmyvtggrltytnwkdepndhgsgedCVTIV--DNGLNDISQASHTAVCFEPA  -----ncldpwsvYEGYCYKVFKERLNWADA EKFC TKQhkdCHLV SFRNSKEVDFV I S I Afpm1kNDLVWIGLTDYWRDCNWEWSDAQLDKADNERHCF-----LYKNTDNQWTRRD TWTF SFVCKCPA</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.75 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEV-VA---KTS AFLGITDEVTeg-QfmyvtggrltytnwkdepndhgsgedCVTIV-DNGLNDISQASHTAVCFEPA  ncldpwsvYEGYCYKVFKERLNWADA EKFC TKQhkdCHLV SFRNSKEVDFV I S I Afpm1kNDLVWIGLTDYWRDCNWEWSDAQLDKADNERHCF-----LYKNTDNQWTRRD TWTF SFVCKCPA</p>
1064	lyttA (115)	M	17.39	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.44 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK-----TSAFLGITDEVTeg-Qfmyvtggrltytnwkdepndhg-----GSGEDCVTIV-DNGLNDISQASHTAVCFEPA  cplgwsFDQHCYKVFEPVKNWTEAEEIMQOHkgSRLSIHSSSEEFVSKLASKa1kfTSMWIGLNNPWKDGK-----wewsdnarfdykawKRRPYCTVMVkpdrIFWFRGCEKSVSFVCKELT</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=9.73 (Å)  s-----GKKFFVTNHERMPFSKVKALCSEL--RGTVAIPRNAEENKAIQEVAK-----KTS AFLGITDEVTeg-QfmyvtggrltytnwkdepndhgsgedCVTIV-DNGLNDISQASHTAVCFEPA-a  -cplgwsFDQHCYKVFEPVKNWTEAEEIMQOHkgSRLSIHSSSEEFVSKLASKa1kfTSMWIGLNNPWKDGKWEWSDNARFDYKAWKR-RPY-----CTVMVkpdrIFWFRGCEKSVSFVCKELT-</p> <p><b>BLAST:</b> aliSize=50 (resi) iden=20.00% (23/115) simi=43.48% (50/115)  sgkkffvtnhermp-----FSKVKALCSEL-RGTVAIPRNAEENKAIQEVAK-----TSAFLGITDEVTeg-QfmyvtggrltytnwkdepndhgsgedCVTIV--DNGLNDISQASHTAVCFE--pa  -----cplgwsFDQHCYKVFEPVKNWTEAEEIMQOHkgSRLSIHSSSEEFVSKLASKa1kfTSMWIGLNNPWKDGKWEWSDNARFDYKAWKR-RPY-----CTVMVkpdrIFWFRGCEKSVSFVCKELT--</p> <p><b>Proposed:</b> aliSize=104 (resi) RMSD=1.80 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK-----TSAFLGITDEVTeg-QfmyvtggrltytnwkdepndhgsgedCVTIV-DNGLNDISQASHTAVCFEPA  cplgwsFDQHCYKVFEPVKNWTEAEEIMQOHkgSRLSIHSSSEEFVSKLASKa1kfTSMWIGLNNPWKDGKWEWSDNARFDYKAWKR-RPY-----CTVMVkpdrIFWFRGCEKSVSFVCKELT-</p>
	lukmB (124)			

1065	<p>lyttA (115)</p> <hr/> <p>lukmA (131)</p>	M	19.13	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.10 (Å)  -----SGKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL-R-<sup>GTVAIPRNAEENKATQEVAK</sup>-T-----SAFLGIT<sup>DEV</sup>-T--EGqfmyvtggrl<sup>tysnwkkdepnd</sup>-----HG--SGEDCVTIV-DN--GLWNDISQASHTAVCEFP  dcpsdwtayDQHCYLAIGEPQNWYEAERFCTEQakd<sup>HLVSIQSREEGNFVAQLVSGFmhrseiYVWIGLRDRReEqqCN</sup>-----pewndgskiiyvnWke<sup>ESKMCQGLTKW</sup>InFHD<sup>WNNINCEDLYPFVCKFSA</sup></p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=9.29 (Å)  s-----GKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL--R<sup>GTVAIPRNAEENKATQEV</sup>-----AKT---SAFLGIT<sup>DEVTEGO</sup>--FMYVT<sup>GRLT</sup><sup>SNWKKDepndhgSGED</sup>CVTIV--DNG-LWNDISQASHTAVCEFP-a  -dcpsdwtayDQHCYLAIGEPQNWYEAERFCTEQakd<sup>HLVSIQSREEGNFVAQLVSGFmhrseiYVWIGLRDRREEQqCN</sup>PEWND<sup>SKI</sup>I<sup>VNWKEG</sup>-----ESKMCQGLTKW<sup>InFHD</sup>WNNINCEDLYPFVCKF<sup>Sa</sup>-</p> <p><b>BLAST:</b> aliSize=31 (resi) iden=16.52% (19/115) simi=26.96% (31/115)  sgkkffvtnhermpfskvkalcse<sup>lrgtvaiprnae</sup>enkaiqevaktsa-----FLGIT<sup>DEVTEGO</sup>F--YVT<sup>GRLT</sup><sup>SNWKKDEPNHGS</sup>GEDCVTIV<sup>ngl</sup>WNDISQASHTAVCEFP  -----dcpsdwtaydqhcylaigepqnwyeaerfcteqakdghlvsiqsreegnfvqlvsgf<sup>mhrseiYVWIGLRDRREEQqCN</sup>peWND<sup>SKI</sup>I<sup>VNWKEG</sup>ESKMCQGLTKW<sup>InFHD</sup>WNNINCEDLYPFVCKF<sup>SA</sup></p> <p><b>Proposed:</b> aliSize=107 (resi) RMSD=1.61 (Å)  -----SGKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL-R-<sup>GTVAIPRNAEENKATQEVAK</sup>-T-----SAFLGIT<sup>DEV</sup>--teGQF--MYVT<sup>GRLT</sup><sup>SNWKKDepndhgSGED</sup>CVTIVD-N--GLWNDISQASHTAVCEFP  dcpsdwtayDQHCYLAIGEPQNWYEAERFCTEQakd<sup>HLVSIQSREEGNFVAQLVSGFmhrseiYVWIGLRDRReeq--QC</sup>PEWND<sup>SKI</sup>I<sup>VNWKEG</sup>-----ESKMCQGLTKW<sup>InFHD</sup>WNNINCEDLYPFVCKF<sup>SA</sup></p>
1066	<p>lyttA (115)</p> <hr/> <p>lj34B (123)</p>	M	17.39	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.06 (Å)  -----SGKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL-R-<sup>GTVAIPRNAEENKATQEVAK</sup>-----TSAFLGIT-<sup>DEVTEGO</sup>fmyvtggrl<sup>tysnwkkdepndh</sup>-----GSG-EDCVTIV-DNGLWNDISQASHTAVCEFP  dcpsdws<sup>syEGHCYKPFSPKNWADAENFCTQQA</sup>g<sup>HLVSFQSSEADFVVKLA</sup>Fqtfgh<sup>SIFWMLSNVWQCN</sup>-----wqwsnaaml<sup>rykaWAEeSYCYFKs</sup>T<sup>NKWRSRACRMAQFVCEFOA</sup></p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=9.74 (Å)  s-----GKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL--R<sup>GTVAIPRNAEENKATQEV</sup>-----KTSAFLGIT<sup>DEVTEGO</sup>FMYVT<sup>TGRLT</sup><sup>SNWKKdepndhgSGED</sup>CVTIVD<sup>NGL</sup>WNDISQASHTAVCEFP-a  -dcpsdws<sup>syEGHCYKPFSPKNWADAENFCTQQA</sup>g<sup>HLVSFQSSEADFVVKLA</sup>fqtfgh<sup>SIFWMLSNVWQCNQOWSNAAMLRKAWAE</sup>-----ESYCVYFKST<sup>NKWRSRACRMAQFVCEFOA</sup></p> <p><b>BLAST:</b> aliSize=29 (resi) iden=13.91% (16/115) simi=25.22% (29/115)  sgkkffvtnhermpfskvkalcse<sup>lrgtvaiprnae</sup>enk-----AI<sup>DEVAKTSAFLGITDEVTEGO</sup>FMYVT<sup>TGRLT</sup><sup>SNWKKDEPNHgs</sup>gedCVTIVD<sup>NGL</sup>WNDISQASHTAVCEFP  -----dcpsdws<sup>syeghcykpfsepknwadaenfctqqhaghlvsfqsseadf</sup>vk<sup>lAFITFGHSIFWMLSNVWQCNQOWSNAAMLRKAWAEESY</sup>-----CVYFKST<sup>NKWRSRACRMAQFVCEFOA</sup></p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.74 (Å)  -----SGKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL-R-<sup>GTVAIPRNAEENKATQEVAK</sup>-----TSAFLGIT-<sup>DEVTEGO</sup>FMYVT<sup>TGRLT</sup><sup>SNWKKDepndhgsgED</sup>CVTIV-DNGLWNDISQASHTAVCEFP  dcpsdws<sup>syEGHCYKPFSPKNWADAENFCTQQA</sup>g<sup>HLVSFQSSEADFVVKLA</sup>Fqtfgh<sup>SIFWMLSNVWQCNQOWSNAAMLRKAWAE</sup>-----SYCYFKST<sup>NKWRSRACRMAQFVCEFOA</sup></p>
1067	<p>lyttA (115)</p> <hr/> <p>ljwiB (123)</p>	M	15.65	<p><b>TM-align:</b> aliSize=93 (resi) RMSD=2.36 (Å)  -----SGKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL-R-<sup>GTVAIPRNAEENKATQEVAK</sup>-----TSAFLGIT<sup>DEVTEGO</sup>fmyvtggrl<sup>tysnwkkdepndh</sup>-----GS-GEDCVTIV-DNGLWNDISQASHTAVCEFP  gclpdwss<sup>YKHCYKVKVEKTWADA</sup>EKF<sup>CKELVngHLMSVNSREEGEFISKLA</sup>Lekmri<sup>VLVWIGLSHFWR</sup>ICP-----rwdgar<sup>ldyraLSdEPICFVAESFHNKIOWT</sup>NRK<sup>SFVCKYRV</sup></p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.10 (Å)  s-----GKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL--R<sup>GTVAIPRNAEENKATQEV</sup>-----KTSAFLGIT-<sup>DEVTEGO</sup>fMYVT<sup>TGRLT</sup><sup>SNWKKDEPNHgs</sup>GEDCVTIVD<sup>NGL</sup>WNDISQASHTAVCEFP-a  -gclpdwss<sup>YKHCYKVKVEKTWADA</sup>EKF<sup>CKELVngHLMSVNSREEGEFISKLA</sup>Lekmri<sup>VLVWIGLSHFWR</sup>ICP--LRWTDGAR<sup>LDYR</sup>---ALSDEP---ICFVAESFHNKIOWT<sup>NRKSFVCKYRV</sup></p> <p><b>BLAST:</b> aliSize=5 (resi) iden=3.48% (4/115) simi=4.35% (5/115)  sg-----K<sup>KFFVTNH</sup>--erm<sup>pfskvkal</sup>sel<sup>rgtvaiprnae</sup>enkaiqevaktsa<sup>flgit</sup><sup>devtego</sup>fmyvtggrl<sup>tysnw</sup>  --gclpdwss<sup>YKHCYKVKVEKTWADA</sup>EKF<sup>CKELVngghlmsvnsreegefisklalekmriVLVWIGLSHFWR</sup>icpl<sup>rwdgar</sup><sup>ldyraLSdEPICFVAESFHNKIOWT</sup>NRK<sup>SFVCKYRV</sup>-----  <sup>kkdepndhgsged</sup>cvt<sup>ivdnglwndiscqashtav</sup>ce<sup>fpa</sup></p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=2.05 (Å)  -----SGKKFFVTNH<sup>RMPFSKVKAL</sup>CSEL-R-<sup>GTVAIPRNAEENKATQEVAK</sup>-----TSAFLGIT<sup>DEVTEGO</sup>-OFMYVT<sup>TGRLT</sup><sup>SNWKKDEPNHgs</sup>GEDCVTIV-DNGLWNDISQASHTAVCEFP  gclpdwss<sup>YKHCYKVKVEKTWADA</sup>EKF<sup>CKELVngHLMSVNSREEGEFISKLA</sup>Lekmri<sup>VLVWIGLSHFWR</sup>icpl<sup>rwdgar</sup><sup>LDYR</sup>---ALSDEP---EPI<sup>CFVAESFHNKIOWT</sup>NRK<sup>SFVCKYRV</sup></p>

1068	lyttA (115)	M	16.52	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.19 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK--T---SAFLGIT-DEVTEGdfmyvtggrltySNWkkdepndh-----GSGEDCVTIV-DNGLNDISQASHTAVCEPFA  gfcclpgwssYDEHCYQVFOOKNWNEDAERFCTQqhgSHLVSFHSSEVDFVVSKTSpilkhDFVWMLShVWNECA-----kewsdgTKldykawSGQSDCITSKtTDNQLSMDCSSKRYVVKCFQA</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=9.54 (Å)  sg-----KFFVTNHERMPFSKVKALCSEL--RGTVAIPRNAEENKAIQEVAK----KTSAFLLGITDEVTEGQFMVYVTLGRLTYSNWKkdepndhgSGEDCVTIV-DNGLNDISQASHTAVCEP-a  --gfcclpgwssydehcyqvfooknwnedaerfctqohrghlvsfhsseevdfvvsktspilkhdfvwmclsnvwnecaekewsdTKldykaw-----SGQSDCITSKTTDnqLSDCSSKRYVVKCFQa-</p> <p><b>BLAST:</b> aliSize=48 (resi) iden=25.22% (29/115) simi=41.74% (48/115)  sgkfffvtnh-----ERMPFSKVKALCSEL-RGTVAIPRNAEENKAIQEVAKVAKTSAFLLGITDEVTEGdfMYVTGGRLTYSNWKKDEPNHD--GSGE-DCVTI--IVDNGLNDISQASHTAVCEPFA  -----gfcclpgwssydehcyqvfooknwnedaerfctqohrghlvsfhsseevdfv--SKTSPILK-HDFVWMLSNVWNECA--KESDGTGLDYkaWSGQSDCITSKTTDNQLSMDCSSKRYVVKCFQA</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.72 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK----TSAFLGIT-DEVTEGdfMYVTGRLTYSNWKkdepndhgSGEDCVTIV-DNGLNDISQASHTAVCEPFA  gfcclpgwssYDEHCYQVFOOKNWNEDAERFCTQqhgSHLVSFHSSEVDFVVSKTSpilkhDFVWMLShVWNECA--KESDGTGLDYkaWSGQSDCITSKTTDNQLSMDCSSKRYVVKCFQA</p>
1069	lyttA (115)	M	12.17	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.19 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK--T---SAFLGITDEVTEGdfmyvtggrltySNWkkdepndh-----GSGEDCVTIV--DN-GLNDISQASHTAVCEPFA  dcssgwsYEGHCYKVFQSKTWADAESFCTKQvngHLVSISSGADFVGQLIAqkIksakiHVVWIGLRAQNKekQCS-----iewsdgssisyenwiEESKCLGVHiETGFhKVENFYEQQDPFVCHA--</p> <p><b>SARST:</b> aliSize=104 (resi) RMSD=9.93 (Å)  s-----GKKFFVTNHERMPFSKVKALCSEL--RGTVAIPRNAEENKAIQEVAK----TSAFLGITDEVTEGdfMYVTGRLTYSNWKkdepndhgSGEDCVTIV--DNG-LNDISQASHTAVCE-fpa  -dcssgwsyEGHCYKVFQSKTWADAESFCTKQvngHLVSISSGADFVGQLIAqkIksakiHVVWIGLRAQNKekQCS--EWSDSISISENWIIEE-----ESKCLGVHiETGFhKVENFYEQQDPFVCHA---</p> <p><b>BLAST:</b> aliSize=33 (resi) iden=14.78% (17/115) simi=28.70% (33/115)  sgkfffvtnhermpfskvkalcseLrgtvaiprnaeenkaIQEVAK-----AKTSAFLGITDEVTEGQ--FMVYVTLGRLTYSNWKkDEPNdhGSGEDCVTIV--VDNGL--NDISQASHTAVCE-fpa  -----dcssgwsyEGHCYKVFQSKTWADAESFCTKQvngHLVSISSGADFVGQLIAqkIksakiHVVWIGLRAQNKekQCSIEWSDSISISENWIIEE-----SKKCLGVHiETGFhKVENFYEQQDPFVCHA---</p> <p><b>Proposed:</b> aliSize=106 (resi) RMSD=1.69 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK--T---SAFLGITDEVTEGdfMYVTGRLTYSNWKkdepndhgSGEDCVTIV--DN-GLNDISQASHTAVCEPFA  dcssgwsYEGHCYKVFQSKTWADAESFCTKQvngHLVSISSGADFVGQLIAqkIksakiHVVWIGLRAQNKekQCSIEWSDSISISENWIIEE-----ESKCLGVHiETGFhKVENFYEQQDPFVCHA--</p>
1070	lyttA (115)	M	14.78	<p><b>TM-align:</b> aliSize=92 (resi) RMSD=2.00 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK----TSAFLGITDEVTEGdfmyvtggrltySNWkkdepndh-----GSGEDCVTIV--DN-GLNDISQASHTAVCEPFA  hcpsdwyYDQHCYRIFNEENWNEDAERFCTQqkGHLVSIKSAKEADFVAVMVTqnieesfSHVSIQLRVQNKekqCS-----tkwsdgsvsydnIIdLYITKLSLLKkeTGfRkWFVASCIGKIPFVCKFPqC</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=9.76 (Å)  sg-----KFFVTNHERMPFSKVKALCSEL--RGTVAIPRNAEENKAIQEVAK--KTS-----AFLGITDEVTE--GQFMVYVTLGRLTYSNWKkdepndhgSGEDCVTIV-DNGLNDISQASHTAVCEPFA  --hcpsdwyYDQHCYRIFNEENWNEDAERFCTQqkGHLVSIKSAKEADFVAVMVTqnieesfshvsiqlrvqnkeqCSTKWSDSVSDNLLD-----LYITK-----SllkktgfrkwFVASCIGKIPFVCKFPqC</p> <p><b>BLAST:</b> aliSize=8 (resi) iden=6.09% (7/115) simi=6.96% (8/115)  sgkfffvtnhermpfskvkalcseLrgtvaiprnaeenkaIQEVAKtsaflgitdevteGdfmyvtggrltySNWkkdepndhgSGEDCVTIV-DNGLNDISQASHTAVCEPFA  -----hcpsdwyYDQHCYRIFNEENWNEDAERFCTQqkGHLVSIKSAKEADFVAVMVTqnieesfshvsiqlrvqnkeqCSTKWSDSVSDNLLD-----LYITKLSLLKkeTGfRkWFVASCIGKIPFVCKFPqC</p> <p><b>Proposed:</b> aliSize=108 (resi) RMSD=1.80 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-GTVAIPRNAEENKAIQEVAK----TSAFLGITDEVTEGdfMYVTGRLTYSNWKkdepndhgSGEDCVTIV--DN-GLNDISQASHTAVCEPFA  hcpsdwyYDQHCYRIFNEENWNEDAERFCTQqkGHLVSIKSAKEADFVAVMVTqnieesfshvsiqlrvqnkeqCSTKWSDSVSDNLLD-----LYITKLSLLKkeTGfRkWFVASCIGKIPFVCKFPqC</p>

1071	<p>lyttA (115)</p> <hr/> <p>lj34A (129)</p>	M	14.78	<p><b>TM-align:</b> aliSize=91 (resi) RMSD=2.10 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-RTVAIPRNAEENKATQEVAK--T----SAFLGITDEV-T-EGqfmyvtggrltySNWkdepnd-----HGSGEDCVITVD--N-GLINDISQASHTAVCFpa  dcpsgwssYEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAAGEADFVAQLVTenIqntksYVWIGLRVQKkEQC-----ssewsdgssvsyenwiEAESKTLGLEKetGFRKVVNIYGOQNPFCa--</p> <p><b>SARST:</b> aliSize=103 (resi) RMSD=9.85 (Å)  s-----GKKFFVTNHERMPFSKVKALCSEL--R-RTVAIPRNAEENKATQEVA-----TSAFLLGITDevTEGQ---FMYVTGRLTYSNWKDepndhgSGEDCVITV---DNGLINDISQASHTAVCF-fpa  -dcpsgwssyEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAAGEADFVAQLVteniqntSYVWIGLRV--QGKEkcsSEWSDSSSVSYENWIEA-----ESKTLGLEKetGFRKVVNIYGOQNPFCa---</p> <p><b>BLAST:</b> aliSize=36 (resi) iden=18.26% (21/115) simi=31.30% (36/115)  sgkkffvtnhermpfskvkalcseirgtvaiprnae-----ENKATQEVAKTSAFLLGITDEVTEGQFM--YVTGRLTYSNWKDEpndhgSGEDCVITV--VDNCL--INDISQASHTAVCF-fpa  -----dcpsgwssyeghcykpfklyktwddaerfcteqakghlvsiesageadfvaqlvtEN--IQN-TKSYVWIGLRVQKKEQCSSEWSDSSSVSYENWIEAE-----SKTLGLEKETGFRKVVNIYGOQNPFCa---</p> <p><b>Proposed:</b> aliSize=105 (resi) RMSD=1.59 (Å)  -----SGKKFFVTNHERMPFSKVKALCSEL-R-RTVAIPRNAEENKATQEVAK--T----SAFLGITDEV---teGQfMYVTGRLTYSNWKDepndhgSGEDCVITVD--N-GLINDISQASHTAVCFpa  dcpsgwssYEGHCYKPFKLYKTWDDAERFCTEQakGHLVSIESAAGEADFVAQLVTenIqntksYVWIGLRVQKkEQ--CSSEWSDSSSVSYENWIEA-----ESKTLGLEKetGFRKVVNIYGOQNPFCa--</p>
1072	<p>2cw1A (65)</p> <hr/> <p>1d11A (61)</p>	C	19.67	<p><b>TM-align:</b> aliSize=53 (resi) RMSD=2.30 (Å)  mr---KKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQdgi tqpfp-----  --meqRIT-LDYAMRFGTGTAKDLGVYSAIANKAIHARRKIFLTIADGSVYAEVVK-----pwpns</p> <p><b>SARST:</b> aliSize=54 (resi) RMSD=2.51 (Å)  mr---KKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQ-----dgi tqpfp  --meQRITLDYAMRFGTGTAKDLGVYSAIANKAIHARRKIFLTIADGSVYAEVVKpwpns-----</p> <p><b>BLAST:</b> aliSize=32 (resi) iden=27.87% (17/61) simi=52.46% (32/61)  RRKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQdgiTQPF--p  MEQRITLDYAMRFGTGTAKDLGVYSAIANKAIHARRKIFLTIADGS--VYAE--VKPWPsn-</p> <p><b>Proposed:</b> aliSize=58 (resi) RMSD=2.11 (Å)  mr---KKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQdgiTQPFPP  --meqRIT-LDYAMRFGTGTAKDLGVYSAIANKAIHARRKIFLTIADGSVYAEVVK-----VKPWPNS</p>
1073	<p>2cw1A (65)</p> <hr/> <p>2ecsA (60)</p>	C	20.00	<p><b>TM-align:</b> aliSize=54 (resi) RMSD=2.38 (Å)  mr---KKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQdgi tqpfp--  --meqRIT-LDYAMRFGTGTAKDLGVYSSINQAIHARRKIFLTIADGSVYAEVVK-PF-----ps</p> <p><b>SARST:</b> aliSize=55 (resi) RMSD=2.86 (Å)  m-RKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQ---dgi tqpfp  -mEQRITLDYAMRFGTGTAKDLGVYSSINQAIHARRKIFLTIADGSVYAEVVKpfp-----</p> <p><b>BLAST:</b> aliSize=31 (resi) iden=28.33% (17/60) simi=51.67% (31/60)  RRKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQdgiTQPF--p  MEQRITLDYAMRFGTGTAKDLGVYSSINQAIHARRKIFLTIADGS--VYAE--VKPFPs-</p> <p><b>Proposed:</b> aliSize=57 (resi) RMSD=2.14 (Å)  mr---KKLDLKKFVEDKNOEYAARALGLSOKLIEEVLKRRLPVYVETKDCNKKVYITQdgiTQFPF  --meqRIT-LDYAMRFGTGTAKDLGVYSSINQAIHARRKIFLTIADGSVYAEVVK---PFPS--</p>



1077	<p>lgcpA (65)</p> <p>li07A (59)</p>	N	18.64	<p><b>TM-align:</b> aliSize=34 (resi) RMSD=2.60 (Å)  --KMEVFQEEYGIpPppgafGPFRLNPGIIVELTK-AEaehNwegrntatnevg-----Wfpcnrvhpyvh-----  kkYAKSKYDFVAR-N-----SSEL SVMKD VLEI LDdRR--QW-----kvrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=54 (resi) RMSD=14.34 (Å)  k---MEVFQEEYgippPGAFGPFRLNPGIIVELTKaEAEHNWEGRNTATNEVCWFPCNRVHPYV--h  -kkyAKSKYDF-----VARNSSSEL SVMKD VLEI ---LDDRROWKVRNASGDSGFVNNILDIRtp-</p> <p><b>BLAST:</b> aliSize=18 (resi) iden=16.95% (10/59) simi=30.51% (18/59)  kmevfqeyyigpppgafgpfrlnpg-----IIVELTKaEAEHNWEGRNTATNEVCWFPC-----rvhpyvh  -----kkyakskydfvarnsseisvmkdVLEI-LDDRROWKVRN-ASGDSGFVNNIldimrtp-----</p> <p><b>Proposed:</b> aliSize=54 (resi) RMSD=1.46 (Å)  --KMEVFQEEYGIpP-ppgafgPFRLNPGIIVELTK-AEaehNwegrntatnevcwfpcnrvhpyvh-  kkYAKSKYDFVAR-Ns-----SEL SVMKD VLEI LDdRR--QWVKVRN-ASGDSGFVNNILDIRtp</p>
1078	<p>lckaA (57)</p> <p>li07A (59)</p>	C	26.32	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.39 (Å)  AEYVRALFDENGDEEDLPFKNGDILRTRD-KPEeQWwnaedsegkr-----Mipvpyveky-----  KKYAKSKYDFVARNSSSEL SVMKD VLEI LDdRRQW-WK-----vrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=53 (resi) RMSD=11.24 (Å)  a-EYVRALFDENGDEEDLPFKNGDILRTRDKPEeQWNAEDSEKRGMIIPVYVE-----k  -kkyAKSKYDFVARNSSSEL SVMKD VLEI LDdRR-QWVKVRNASGDSGFVNNILDIRtp-</p> <p><b>BLAST:</b> aliSize=25 (resi) iden=26.79% (15/57) simi=44.64% (25/57)  a-EYVRALFDENGDEEDLPFKNGDILRTRDKPEeQWNAEDSEKRGMIIP-----vpyvek  -kkyAKSKYDFVARNSSSEL SVMKD VLEI LDD-RRQWVKVRNASGDSGFVNNIldimrtp-----</p> <p><b>Proposed:</b> aliSize=53 (resi) RMSD=0.82 (Å)  AEYVRALFDENGDEEDLPFKNGDILRTRD--kpeeQWNAEDSEKRGMIIPVYVEKY---  KKYAKSKYDFVARNSSSEL SVMKD VLEI LDdrr---QWVKVRNASGDSGFVNNILDIRtp</p>
1079	<p>lm3aA (57)</p> <p>li07A (59)</p>	C	26.32	<p><b>TM-align:</b> aliSize=34 (resi) RMSD=2.36 (Å)  -CYVRALFDENGDEEDLPFKNGDILRTRD-KPEeQWwnaedsegkrgmipvpyvekyg-----  kkYAKSKYDFVARNSSSEL SVMKD VLEI LDdRRQW-----kvrnasgdsGFvpnnildimrtp</p> <p><b>SARST:</b> aliSize=50 (resi) RMSD=11.67 (Å)  c--YVRALFDENGDEEDLPFKNGDILRTRDKPEeQ--WNAEDSEKRGMIIPVYVEK----yg  -kkyAKSKYDFVARNSSSEL SVMKD VLEI ---LDDRrQWVKVRNASGDSGFVNNILDIRtp--</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=26.32% (15/57) simi=42.11% (24/57)  c--YVRALFDENGDEEDLPFKNGDILRTRDKPEeQWNAEDSEKRGMIIP-----vpyvekyg  -kkyAKSKYDFVARNSSSEL SVMKD VLEI LDD-RRQWVKVRNASGDSGFVNNIldimrtp-----</p> <p><b>Proposed:</b> aliSize=53 (resi) RMSD=1.59 (Å)  -CYVRALFDENGDEEDLPFKNGDILRTRD--kpeeQWNAEDSEKRGMIIPVYVEKYG--  kkYAKSKYDFVARNSSSEL SVMKD VLEI LDdrr---QWVKVRNASGDSGFVNNILDIRtp</p>



1080	IzuyA (58)	C	24.14	<p><b>TM-align:</b> aliSize=35 (resi) RMSD=2.28 (Å)  -PMFEAAYDFPGSgSPSELPLKKGDIYITR-EEPSGwslgklldgskeg-----Wvptaymkph-----  kKYAKSKYDFVAR-NSSEL SVMKDDVLEI LDDRQWVK-----v rnasgdsgF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=50 (resi) RMSD=12.25 (Å)  pm---FEAAYDFPGSgSPSELPLKKGDIYITreEPSG--SLGKLLDskKEWVPTAYMKP----h  --kkyAKSKYDFVAR-NSSEL SVMKDDVLEI---LDDRrqWVKVRNASG-DSGFVNNILDIrtp-</p> <p><b>BLAST:</b> aliSize=24 (resi) iden=27.59% (16/58) simi=41.38% (24/58)  pmf----EAAAYDFPGSGSpSELPLKKGDIYITREEPSGSLgKLLDskKEWV-----taymkph  ---kkyAKSKYDFVARNS-SEL SVMKDDVLEI LDDRQWVKV-RNASGD-SCGFVNNildimrtp-----</p> <p><b>Proposed:</b> aliSize=54 (resi) RMSD=1.53 (Å)  -PMFEAAYDFPGSgSPSELPLKKGDIYITR-eePSGSLGKLLDGSKEWVPTAYMKPH---  kKYAKSKYDFVAR-NSSEL SVMKDDVLEI LDD--RRQWVKVRN-ASGDSGFVNNILDIMRtp</p>
1081	Ibu1C (56)	C	26.79	<p><b>TM-align:</b> aliSize=35 (resi) RMSD=2.06 (Å)  -IIVVALYDYEIHHEDLSFQKGMVLE-ESGEWkarslatrkeg-----Yipsnyvarv-----  kKYAKSKYDFVARNSSEL SVMKDDVLEI LDDRQWVK-----kvrnasgdsgF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=53 (resi) RMSD=11.51 (Å)  i--IIVVALYDYEIHHEDLSFQKGMVLEESGEWKAARS1ATRKEGYIPSNYVAR----v  -kkyAKSKYDFVARNSSEL SVMKDDVLEI LDDRQWVKVRN-ASGDSGFVNNILDIrtp-</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=28.57% (16/56) simi=51.79% (29/56)  iivval-----YDYEIHHEDLSFQKGMVLEESGEWKAARS1ATRKEGYIPSN-----yvarv  -----kkyakskyDFVARNSSEL SVMKDDVLEI LDDRQWVKVRN-ASGDSGFVNNildimrtp-----</p> <p><b>Proposed:</b> aliSize=52 (resi) RMSD=0.72 (Å)  -IIVVALYDYEIHHEDLSFQKGMVLE--esGEWKAARSLaTRKEGYIPSNYVARV---  kKYAKSKYDFVARNSSEL SVMKDDVLEI LDDR--QWVKVRNA-SGDSGFVNNILDIMRtp</p>
1082	IavzC (57)	C	28.07	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.29 (Å)  -TLFVALYDYEARTEDDLSFHGKGFQLN-SSEGDWears1ttgetg-----Yipsnyvapv-----  kKYAKSKYDFVARNSSEL SVMKDDVLEI LDDRQWVK-----v rnasgdsgF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=53 (resi) RMSD=11.64 (Å)  t--LFVALYDYEARTEDDLSFHGKGFQLNSEGDWEARS1TTGETGYIPSNYVAP----v  -kkyAKSKYDFVARNSSEL SVMKDDVLEI LD-DRRQWVKVRNAS-GDSGFVNNILDIrtp-</p> <p><b>BLAST:</b> aliSize=29 (resi) iden=28.07% (16/57) simi=50.88% (29/57)  tlfval-----YDYEARTEDDLSFHGKGFQLNSEGDWEARS1TTGETGYIPSN-----yvapv  -----kkyakskyDFVARNSSEL SVMKDDVLEI LDDR--QWVKVRN-ASGDSGFVNNildimrtp-----</p> <p><b>Proposed:</b> aliSize=53 (resi) RMSD=1.13 (Å)  -TLFVALYDYEARTEDDLSFHGKGFQLN--sseGDWEARS1TTGETGYIPSNYVAPV---  kKYAKSKYDFVARNSSEL SVMKDDVLEI LDDR--RQWVKVRN-ASGDSGFVNNILDIMRtp</p>
	li07A (59)			

1083	<p>2ebpA (73)</p> <p>li07A (59)</p>	C	16.95	<p><b>TM-align:</b> aliSize=35 (resi) RMSD=1.80 (Å)  gssgssgFcGR<del>RVHTDFTP</del>SpYDTDSLKLKGGIIDI<del>IS-KPpmGT</del>wmgllnnkvg-----Tfkiyvdlssgpssg-----  -----K-KY<del>KSKYDFVAR</del>--NSSEL<del>SVMKDDVLE</del>LDdRR--QW-----wkvrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=55 (resi) RMSD=12.07 (Å)  gssgssgfcg--RARVHTDFTPspYDTDSLKLKGGIIDI<del>ISKPPMGT</del>WMGLLNKVT<del>TFKFIYVDVLS</del>--sgpssg  -----kkY<del>KSKYDFVA</del>--RNSSEL<del>SVMKDDVLE</del>LDDRRQW<del>WRNASGDS</del>FVFNIL<del>DIMRTP</del>-----</p> <p><b>BLAST:</b> aliSize=9 (resi) iden=11.86% (7/59) simi=15.25% (9/59)  g-----SSGSSGFCGRARVHTDFTPspYDTDSLKLKGGIIDI<del>ISKPPMGT</del>wmgllnnkvgTfkiyvdlssgpssg  -kkyakskydfvarnselsvmkddvlei<del>lddrrqw</del>wkvrnasgdsGFVFNIL<del>DIMRTP</del>-----</p> <p><b>Proposed:</b> aliSize=55 (resi) RMSD=1.55 (Å)  gssgssgFcGR<del>RVHTDFTP</del>SpYDTDSLKLKGGIIDI<del>IS--kppmGT</del>WMGLLNKVT<del>TFKFIYVDVLS</del>sgpsSg  -----K-KY<del>KSKYDFVAR</del>--NSSEL<del>SVMKDDVLE</del>LDdrr--QW<del>KVRNASGDS</del>FVFNIL<del>DIMRT</del>---P-</p>
1084	<p>2eyxA (67)</p> <p>li07A (59)</p>	N	13.56	<p><b>TM-align:</b> aliSize=36 (resi) RMSD=2.41 (Å)  nlqngPI<del>YARVIQKR</del>PNayDKTALALEVGELVKV<del>TK-I-NVsgQ</del>wegecngkrg-----Hfpfthvrlldqgn-----  -----KKY<del>KSKYDFVAR</del>--NSSEL<del>SVMKDDVLE</del>LDdRrQW--K-----vrnasgdsGF-----vpnnildimrtp</p> <p><b>SARST:</b> aliSize=43 (resi) RMSD=10.12 (Å)  nlqngp-I<del>YARVIQKR</del>PNayDKTALALEVGELVKV<del>tkinvsgQ</del>wegecng-----KR<del>HF</del>FTHVRL<del>L</del>---dqgn  -----kkY<del>KSKYDFVA</del>--RNSSEL<del>SVMKDDVLE</del>-----LDDrrqw<del>wkvrnasgDS</del>FVFNIL<del>DIMRTP</del>----</p> <p><b>BLAST:</b> aliSize=5 (resi) iden=8.47% (5/59) simi=8.47% (5/59)  nlqngpiyarviqkrvpnaydktalalevgelv-----<del>TKINVSG</del>-----qwegecngkrghfpfthvrlldqgn  -----kkyakskydfvarnselsvmkddvlei<del>lddrrqw</del>wkvr--NASGdsGFvpnnildimrtp-----</p> <p><b>Proposed:</b> aliSize=57 (resi) RMSD=1.54 (Å)  nlqngPI<del>YARVIQKR</del>PNayDKTALALEVGELVKV<del>TK-INVsgQ</del>wegecng--KR<del>HF</del>FTHVRL<del>L</del>DQgn  -----KKY<del>KSKYDFVAR</del>--NSSEL<del>SVMKDDVLE</del>LDdRRQ--W<del>KVRNASGDS</del>FVFNIL<del>DIMRTP</del>-----</p>
1085	<p>2vq9A (123)</p> <p>lh8xA (125)</p>	N	30.89	<p><b>TM-align:</b> aliSize=97 (resi) RMSD=1.92 (Å)  irrryehflqhvyygi-----TE--Q-TCDRVMRQRRI<del>r</del>fpTGNDC<del>KEVNTFIQANGNH</del>RTVCTGgGTRO<del>Q</del>D---NRDLYMSNDQFTVITIT<del>IR</del>--SGERhp<del>NCR</del>RGKSSRK<del>I</del>VVACEG--EW<del>FAHYERG</del>Iv  -----kesaaakferqhmdsgns<del>PSsssTYCNQMMRRRNMT</del>-----QGRCK<del>PNVTFVHEPLVD</del>QNVCFQEKV<del>TCKNGGNCYKSNSSMHITD</del>CR<del>TNGSRYP</del>--NCA<del>VRTSOKERH</del>I<del>V</del>ACEGspYV<del>V</del>HDAS<del>E</del>-</p> <p><b>SARST:</b> aliSize=113 (resi) RMSD=13.05 (Å)  irr---RYEH<del>L</del>TOHVYGGITE---Q-TCDRVMRQRRI<del>r</del>fpTGNDC<del>KEVNTFIQANGNH</del>RTVCTGGG<del>TRQTDNRDL</del>MSNDQFTVITIT<del>IR</del>SGERHP<del>NCR</del>RGKSSRK<del>I</del>VVACEG--EW<del>FAHYERG</del>--viv  ---kesAAAK<del>F</del>ERQHMDSCNSPSSsstYCNQMMRRRNMT---M<del>QGRCK</del>PNVTFVHEPLVD<del>QNVCFQEKV</del>TCKNGGNCYKSNSSMHITD<del>CR</del>TNGSRYP<del>NCA</del>VRTSOKERH<del>I</del>VACEGspYV<del>V</del>HDASve---</p> <p><b>BLAST:</b> aliSize=62 (resi) iden=34.15% (42/123) simi=50.41% (62/123)  irrryeh-----L<del>T</del>OHVYGGITE<del>Q</del>---CDRVMRQRRI<del>r</del>fpTGNDC<del>KEVNTFIQANGNH</del>RTVCTGGG--RQTDNRDLMSNDQFTVITIT<del>IR</del>SGERHP<del>NCR</del>RGKSSRK<del>I</del>VVACEG--EW<del>FAHYERG</del>--iv  -----kesaaak<del>F</del>ERQHMDSCNSPSSsstYCNQMMRRRNMTQ---GR<del>CK</del>PNVTFVHEPLVD<del>QNVCFQEKV</del>TCKNGGNCYKSNSSMHITD<del>CR</del>TNGSRYP<del>NCA</del>VRTSOKERH<del>I</del>VACEGspYV<del>V</del>HDAS<del>E</del>---</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.66 (Å)  i-RRRYEH<del>L</del>TOHVYGGITE---Q-TCDRVMRQRRI<del>r</del>fpTGNDC<del>KEVNTFIQANGNH</del>RTVCTGgGTRO<del>Q</del>DN---RDLYMSNDQFTVITIT<del>IR</del>--SGERhp<del>NCR</del>RGKSSRK<del>I</del>VVACEG--EW<del>FAHYERG</del>Iv  -kESAAAK<del>F</del>ERQHMDSCNSPSSsstYCNQMMRRRNMT---QGR<del>CK</del>PNVTFVHEPLVD<del>QNVCFQEKV</del>TCKngq<del>NCYKSNSSMHITD</del>CR<del>TNGSRYP</del>--NCA<del>VRTSOKERH</del>I<del>V</del>ACEGspYV<del>V</del>HDAS<del>E</del>---</p>

1086	<p>1yv7A (102)</p> <p>1h8xA (125)</p>	N 24.51	<p><b>TM-align:</b> aliSize=86 (resi) RMSD=2.50 (Å)            dwltfqkhi tnt-----R--DVC DNI STNLFH---CKDKNTFIYSRPEPVKAICKG-Iia-----SKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFSVTCEN--QAPVHFVGVG-            -----kesaaakferqhmdsgnspSsSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQeK--vtckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA SVE</p> <p><b>SARST:</b> aliSize=96 (resi) RMSD=12.82 (Å)            d----WLT FQKKHIT-NT---RDVCDNI StNLFHC-----NDKNTFIYSRPEPVKAICKGI IAS-----KNVLTTSEFYLSDCNVT----SRPcKYKLLKSTNKFSVTCEN--QAPVHFVGVG---vg            -kesAAAKFERQHMDsGNSpsSSSTYCNQM-RRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA sve--</p> <p><b>BLAST:</b> aliSize=52 (resi) iden=29.70% (30/102) simi=51.49% (52/102)            dwlt-----FQKKHITN-----TRDVC DNI ST-NLFH---CKDKNTFIYSRPEPVKAIC-KGI IASKN-----VLTTSSEFYLSDCNVT--SR--CKYKLLKSTNKFSVTCENQ--APVHF-----vgvg            ----kesaaakFERQHMDsgnspSsSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFdasve----</p> <p><b>Proposed:</b> aliSize=97 (resi) RMSD=1.67 (Å)            --PDWLT FQKKHITN-TRD-----vDVC DNI ST-NLFH---CKDKNTFIYSRPEPVKAICK-----giiaSKNVLTTSEFYLSDCNVTSRP----CKYKLLKSTNKFSVTCEN--QAPVHFVGVG-            keSAAAKFERQHMDsgnspSsSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCFQekvtckngq----GNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA SVE</p>
1087	<p>1k5aA (118)</p> <p>1h8xA (125)</p>	N 34.75	<p><b>TM-align:</b> aliSize=98 (resi) RMSD=2.00 (Å)            nsrythfl tqhydakpq-----GR-DDRYCESIMRRRGLTS-PCDINTFIHGKRSIKAI CEnknGNPHRE-----NLRI SKSSFQVITCKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHLDQSA            -----kesaaakferqhmdsgnspSsSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---QEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA SVE</p> <p><b>SARST:</b> aliSize=107 (resi) RMSD=13.33 (Å)            ns---RYTHLTOHYDAKPO--GRDDR YCESIMRRRGLTS-PCDINTFIHGKRSIKAI CEnknGNPH-RE-----LRI SKSSFQVITCKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHL-----dqsaa            --kesAAAKFERQHMDSGNSpsSSSTYCNQMRRR-RRNMtqgrCKPVNTFVHEPLVDVQNVCF---FQEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFdasve----</p> <p><b>BLAST:</b> aliSize=65 (resi) iden=38.14% (45/118) simi=55.08% (65/118)            nsryth-----LTOHYDA--KPOGrDDR YCESIMRRRGLTS-PCDINTFIHG---NKRSI-----KAI CENKNGNPHRENl riskSSSFQVITCKLHGGSPWPPQYRATAGFRNVVACENG--LPVHLDQSA--aa            -----kesaaakFERQHMDSGNSpsSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---FQEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFdasve--</p> <p><b>Proposed:</b> aliSize=111 (resi) RMSD=1.50 (Å)            -NSRYTHLTOHYDAKPOGR--ddRYCESIMRRRGLTS-PCDINTFIHGKRSIKAI CEnknGNPHRE-----NLRI SKSSFQVITCKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHLDQSA--a            keSAAAKFERQHMDSGNSpsSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---QEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA SVE-</p>
1088	<p>1un5A (121)</p> <p>1h8xA (125)</p>	N 35.54	<p><b>TM-align:</b> aliSize=99 (resi) RMSD=2.03 (Å)            nsrythfl tqhydakpq-----GR-DDRYCESIMRRRGLTSDRCKPINTFIHGKRSIKAI CEnknGNPHRE-----NLRI SKSSFQVITCKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHLDQSI FR            -----kesaaakferqhmdsgnspSsSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---QEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA SVE</p> <p><b>SARST:</b> aliSize=106 (resi) RMSD=14.68 (Å)            s---RYTHLTOHYDAKPOGrDDR---YCESIMRRRGLTSDRCKPINTFIHGKRSIKAI C-----ENKNGNPHrenLRI SKSSFQVITCKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHL-----dqsifr            -kesAAAKFERQHMDSGNS--PSsSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---FQEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFdasve-----</p> <p><b>BLAST:</b> aliSize=68 (resi) iden=39.50% (47/121) simi=57.14% (68/121)            sryth-----LTOHYDA--KPOGrDDR YCESIMRRRGLTSDRCKPINTFIHG---NKRSI-----KAI CENKNGNPHRENl riskSSSFQVITCKLHGGSPWPPQYRATAGFRNVVACENG--LPVHLDQSI -fr            -----kesaaakFERQHMDSGNSpsSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---FQEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFdasve--</p> <p><b>Proposed:</b> aliSize=112 (resi) RMSD=1.52 (Å)            n--SRYTHLTOHYDAKPOGR--ddRYCESIMRRRGLTSDRCKPINTFIHGKRSIKAI CEnknGNPHRE-----NLRI SKSSFQVITCKLHGGSPWPPQYRATAGFRNVVACEN--GLPVHLDQSI --frr            -keSAAAKFERQHMDSGNSpsSSSTYCNQMRRRNMtqgrCKPVNTFVHEPLVDVQNVCF---QEKVTckngqGNCYKSNSSMHITDCRLTNGSRYPNCAVYRTSOKERHII VACEGspYVPVHFDA SVE-</p>

1089	<p>1a5qA (124)</p> <hr/> <p>1h8xA (125)</p>	N	69.35	<p><b>TM-align:</b> aliSize=105 (resi) RMSD=1.66 (Å)  ketaaakferqhmds <b>ts</b>-----AAAs-SSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKIANCAYKTTQANKHIIVACEGNPYVPVHFDASV-  -----kesaaakferqhmdsg<b>nsPS-s</b>SSNYCNQMMRRRNMTOGRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKIANCAYKTTQANKHIIVACEGNPYVPVHFDASVe</p> <p><b>SARST:</b> aliSize=98 (resi) RMSD=16.11 (Å)  k-ETAAAKFERQHMD<b>ST</b>---SAA<b>ss</b>NYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKN-----Qtn cyqsy stms itdcretgsskIANCAYKTTQANKHIIVACEGNPYVPVHFDAS--v  -kESAAAKFERQHMD<b>SG</b><b>nsPS</b><b>SSS</b>---TYCNQMMRRRNMTOGRCKPVNTFVHESLADVQAVCSQKNACKNGGgnc yk sn s sm hitdcr ltn <b>SS</b>-----RYPNCAYRTSOKERHIIVACEGSPYVPVHFDASve-</p> <p><b>BLAST:</b> aliSize=103 (resi) iden=72.58% (90/124) simi=83.06% (103/124)  <b>KE</b>TAAAKFERQHMD<b>ST</b>AA<b>SSS</b>NYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKIANCAYKTTQANKHIIVACEGNPYVPVHFDASV-  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>NSP</b><b>SSS</b>TYCNQMMRRRNMTOGRCKPVNTFVHESLADVQAVCSQKNACKNGGNCYKNSSMHITDCRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=1.03 (Å)  <b>KE</b>TAAAKFERQHMD<b>ST</b>AA<b>SSS</b>NYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKN-NGQtNCYQSYSTMSITDCRETGSSKIANCAYKTTQANKHIIVACEGNPYVPVHFDASV-  <b>KE</b>SAAAKFERQHMD<b>SG</b>-<b>SP</b><b>s</b><b>SSS</b>TYCNQMMRRRNMTOGRCKPVNTFVHESLADVQAVCSQKNACKNGGNCYKNSSMHITDCRLNGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>
1090	<p>11bgA (124)</p> <hr/> <p>1r3mB (122)</p>	N	99.18	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=1.02 (Å)  kesaaakferqhmds <b>gnsps</b>-----SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----kesaaakferqhmds <b>gnsPS</b>SSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>SARST:</b> aliSize=120 (resi) RMSD=9.91 (Å)  k-ESAAAKFERQHMD<b>SG</b><b>NSP</b><b>SSs</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDAS-v  -kESAAAKFERQHMD<b>SG</b><b>NSP</b><b>S</b>--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=122 (resi) iden=100.00% (122/122) simi=100.00% (122/122)  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>NSP</b><b>SSs</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>NSP</b><b>S</b>--SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p> <p><b>Proposed:</b> aliSize=122 (resi) RMSD=0.70 (Å)  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>NSP</b><b>Ss</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>N</b>-<b>P</b>-<b>S</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV</p>
1091	<p>11bgA (124)</p> <hr/> <p>1a2wA (124)</p>	N	80.65	<p><b>TM-align:</b> aliSize=104 (resi) RMSD=0.70 (Å)  kesaaakferqhmds <b>gnsps</b>-----SSSNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  -----ketaaakferqhmds <b>st</b>sa<b>SS</b>NYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>SARST:</b> aliSize=121 (resi) RMSD=11.86 (Å)  k-ESAAAKFERQHMD<b>SG</b><b>NSP</b><b>SSs</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDAS-v  -kETAAAKFERQHMD<b>ST</b>SA<b>SS</b>-SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASv-</p> <p><b>BLAST:</b> aliSize=107 (resi) iden=81.45% (101/124) simi=86.29% (107/124)  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>NSP</b><b>SSS</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  <b>KE</b>TAAAKFERQHMD<b>ST</b>SA<b>SS</b>SNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p> <p><b>Proposed:</b> aliSize=123 (resi) RMSD=0.90 (Å)  <b>KE</b>SAAAKFERQHMD<b>SG</b><b>NSP</b><b>S</b>-<b>s</b>SNYCNLMCCRKMTQGKCKPVNTFVHESLADVKAVCSQKKVTCKNGQTNCYQSKSTMRTDCRETGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV  <b>KE</b>TAAAKFERQHMD<b>ST</b>SA<b>SS</b>-<b>SS</b>NYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV</p>

1092	<p>11bgA (124)</p> <hr/> <p>1h8xA (125)</p>	N	71.77	<p><b>TM-align:</b> aliSize=104 (resi)      RMSD=1.47 (Å)  kesaaakferqhmdsgnspss-----SSSNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  -----kesaaakferqhmdsgnspssSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>SARST:</b>      aliSize=120 (resi)      RMSD=11.31 (Å)  k-ESAAAKFERQHMD--SGNSPSSsNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kESAAAKFERQHMDsgNSPSSSS--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe-</p> <p><b>BLAST:</b>      aliSize=105 (resi)      iden=77.42% (96/124)      simi=84.68% (105/124)  KESAAAKFERQHMDSGNSPSSSSNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=122 (resi)      RMSD=1.05 (Å)  KESAAAKFERQHMDSGnSPS-SSSNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNG-KNgQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSG-NSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNG-OGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>
1093	<p>11baA (124)</p> <hr/> <p>1h8xA (125)</p>	N	74.19	<p><b>TM-align:</b> aliSize=104 (resi)      RMSD=1.43 (Å)  kesaaakferqhmdsgnspss-----SSSNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  -----kesaaakferqhmdsgnspssSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>SARST:</b>      aliSize=120 (resi)      RMSD=11.65 (Å)  k-ESAAAKFERQHMD--SGNSPSSsNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV--v  -kESAAAKFERQHMDsgNSPSSSS--TYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe-</p> <p><b>BLAST:</b>      aliSize=105 (resi)      iden=77.42% (96/124)      simi=84.68% (105/124)  KESAAAKFERQHMDSGNSPSSSSNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSGNSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p> <p><b>Proposed:</b> aliSize=123 (resi)      RMSD=1.16 (Å)  KESAAAKFERQHMDSGnSPS-SSSNYCNLMMCCRKMTQGKCKPVNTFVHESLADVKAVCSOKKVTCKNGQTNCYQSKSTMRTDCREIGSSKYPNCAYKTTQVEKHIIVACGGKPSVPVHFDASV-  KESAAAKFERQHMDSG-NSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTCKNGGNCYKSNSSMHI TDCRLINGSRYPNCAYRTSOKERHIIVACEGSPYVPVHFDASVe</p>