**## PDB1: 1pho\_A**

**## PDB2: 2y0l\_A**

**## row number: 0**

**1pho\_A 000 DGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGLRP 096**

**2y0l\_A 000 HFDLGGLDYKLTD-QLTASYHYSNLQD-------------VYRQHFVGLLHSWPIGPGELTSDLRFARSTDSGSA-KAGGIDNKSLNGMFTYSLG-NHAF 084**

**1pho\_A 097 SLGYVLSKGKDIE----------------GIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNK-LNINNDDIVAVGMTYQF 165**

**2y0l\_A 085 GAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAGQSGEGREWERNTELQYVF 174**

**## PDB1: 1pho\_A**

**## PDB2: 2y0l\_A**

**## row number: 1**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQN-----LQ-S-------RGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQ 082**

**2y0l\_A 000 DNKSLNGMFTYSLGN--HAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAGQSGEGREW 098**

**1pho\_A 083 NFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYF 130**

**2y0l\_A 099 ERNTELQYVFQSGALKNLGIRWRNATFRSNF------TRDIDENRLIVSYTL 144**

**## PDB1: 1pho\_A**

**## PDB2: 2y0l\_A**

**## row number: 2**

**1pho\_A 000 DGFGTSLTYDFG--GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT----------G------GFANKTQNF 082**

**2y0l\_A 000 RQHFVGLLHSWPIGPGELTSDLRFARSTDSGSA----KAGGIDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSW 096**

**1pho\_A 083 EAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 165**

**2y0l\_A 097 QLRYDYDFVGLGIPGLTFMTRYVKGDNVELAGQSGEGREWERNTELQYVFQSGALKNLGIRWRNATFRSNF-----TRDIDENRLIVSYTL 182**

**## PDB1: 1pho\_A**

**## PDB2: 3jty\_A**

**## row number: 3**

**1pho\_A 000 GDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGLR 096**

**3jty\_A 000 DRFNFQGAEYAFNDKRTQIALWNAQLKDI-------------YSQQFINLIHSQPLGDWTLGANLGFFYGKEDGSA-RAGDMENRTWSGLFSAKYG-GNT 085**

**1pho\_A 097 PSLGYVLSKGKDIE------G-----I------GDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLD 145**

**3jty\_A 086 FYVGLQKLTGDSAWMRVNGTSGGTLANDSYNASYDNAKEKSWQVRHDYNFAALGVPGLTLMNRYISGSNV 155**

**## PDB1: 1pho\_A**

**## PDB2: 3jty\_A**

**## row number: 4**

**1pho\_A 000 GFGTSLTYDFG--GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT-----------G------GFANKTQNF 081**

**3jty\_A 000 QQFINLIHSQPLGDWTLGANLGFFYGKEDGSA----RAGDMENRTWSGLFSAKYGGNTFYVGLQKLTGDSAWMRVNGTSGGTLANDSYNASYDNAKEKSW 096**

**1pho\_A 082 EAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYF----NKNMSAFVDYKINQLDS 144**

**3jty\_A 097 QVRHDYNFAALGVPGLTLMNRYISGSNVHTAT-VSDGKEWGRESEVAYTVQSGTLKNLNLKWRNSTMRRDF 166**

**## PDB1: 1pho\_A**

**## PDB2: 3sy7\_A**

**## row number: 5**

**1pho\_A 000 DGFGTSLTYDFG---GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPI-------------T------G----- 073**

**3sy7\_A 000 RQYYLNSNYTIPLASDQSLGFDFNIYRTNDEGKA----KAGDISNTTWSLAAAYTLDAHTFTLAYQKVHGDQPFDYIGFGRNGSGAGGDSIFLANSVQYS 096**

**1pho\_A 074 -GFANKTQNFEAVAQYQFD----FGLRPSLGYVLSKGKDIEG------------IGDEDLVNYIDVGATYYF----NKNMSAFVDYKINQLDS 145**

**3sy7\_A 097 DFNGPGEKSWQARYDLNLASYGVPGLTFMVRYINGKDIDGTKMSDNNVGYKNYGYGEDGKHHETNLEAKYVVQSGPAKDLSFRIRQAWHRANA 189**

**## PDB1: 1pho\_A**

**## PDB2: 3sy7\_A**

**## row number: 6**

**1pho\_A 000 GDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGL 095**

**3sy7\_A 000 KSADFIGGRYAITD-NLSASLYGAELEDI-------------YRQYYLNSNYTIPLASDQSLGFDFNIYRTNDEGKAK-AGDISNTTWSLAAAYTLD-AH 084**

**1pho\_A 096 RPSLGYVLSKGKDIE-------------G------I------GDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 146**

**3sy7\_A 085 TFTLAYQKVHGDQPFDYIGFGRNGSGAGGDSIFLANSVQYSDFNGPGEKSWQARYDLNLASYGVPGLTFMVRYINGKDID 164**

**## PDB1: 1pho\_A**

**## PDB2: 3sy9\_A**

**## row number: 7**

**1pho\_A 000 DGFGTSLTYDFG--G-SDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT-----------------GGFANKTQ 080**

**3sy9\_A 000 KQYYADVDYTYEIDDNWSLNPGAHYYKTVDSGDS----LLGRIDNNTYSLHFAVGYRQHTVTAVLQKVNGNTPFDYINQGDSIFLDNSQQYSDFNGPNEK 096**

**1pho\_A 081 NFEAVAQYQFD----FGLRPSLGYVLSKGKDI----EG---------IGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 145**

**3sy9\_A 097 SWKLQYDYDFVALGVPGLSASASYSRGKLDLTRVDPDSPGYGGWYSADGKNAKHWERDLDLQYVVQGGPAKDLSLRLRWATHRGTG 182**

**## PDB1: 1pho\_A**

**## PDB2: 3syb\_A**

**## row number: 8**

**1pho\_A 000 KRAEAWATGLKYDANNIYLATFYSETRKMTPIT----------------GGFANKTQNFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGI-------- 072**

**3syb\_A 000 IDNDTWSLAFTLGHRAHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDIDGTHYDGDRNGAY 100**

**1pho\_A 073 --------GDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 106**

**3syb\_A 101 GNYAEVRAQDGEKHHELGLMAAYKVQNGPIKDSTFKLTYMMHKASQ 146**

**## PDB1: 1pho\_A**

**## PDB2: 3syb\_A**

**## row number: 9**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN------NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDF 094**

**3syb\_A 000 GDRLNYLGGNYKPLD-GLEISLYGSHFQDV-------------WNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAR-EAGYIDNDTWSLAFTLGHR- 084**

**1pho\_A 095 GLRPSLGYVLSKGKDIE-------G----I-----GDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLD 146**

**3syb\_A 085 AHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDI 156**

**## PDB1: 1pho\_A**

**## PDB2: 3sys\_A**

**## row number: 10**

**1pho\_A 000 GDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDA--N--NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGLR 096**

**3sys\_A 000 DGFNYAGAEYRFNRERTQLGLWHGQLEDV-------------YRQSYANLLHKQRVGDWTLGANLGLFVDRDDGAAR-AGEIDSHTVYGLFSAGIG-LHT 085**

**1pho\_A 097 PSLGYVLSKGKDIE-------G----I------GDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 146**

**3sys\_A 086 FYLGLQKVGGDSGWQSVYGSSGRSMGNDMFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNAT 156**

**## PDB1: 1pho\_A**

**## PDB2: 3sys\_A**

**## row number: 11**

**1pho\_A 000 GDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDA--N--NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGLR 096**

**3sys\_A 000 DGFNYAGAEYRFNRERTQLGLWHGQLEDV-------------YRQSYANLLHKQRVGDWTLGANLGLFVDRDDGAAR-AGEIDSHTVYGLFSAGIG-LHT 085**

**1pho\_A 097 PSLGYVLSKGKDIE-------G----I------GDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 146**

**3sys\_A 086 FYLGLQKVGGDSGWQSVYGSSGRSMGNDMFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNAT 156**

**## PDB1: 1pho\_A**

**## PDB2: 3sys\_A**

**## row number: 12**

**1pho\_A 000 RAEAWATGLKYDANNIYLATFYSETRKMTPIT-----------------GGFANKTQNFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNY 079**

**3sys\_A 000 DSHTVYGLFSAGIGLHTFYLGLQKVGGDSGWQSVYGSSGRSMGNDMFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNATTKA-GSGGKEWE 099**

**1pho\_A 080 IDVGATYYFN----KNMSAFVDYKINQLD 104**

**3sys\_A 100 RDVELGYTVQSGPLARLNVRLNHASNRRS 128**

**## PDB1: 1pho\_A**

**## PDB2: 3szd\_A**

**## row number: 13**

**1pho\_A 000 DGFGTSLTYDFG--GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT-----------G------GFANKTQN 081**

**3szd\_A 000 RQQYLQLQHSQPLGDWLLGANLGGFRGRDAGSA----RAGKLDNRTVSALFSARYGLHTLYLGLQKVSGDDGWMRVNGTSGGTLANDSYNASYDNPGERS 096**

**1pho\_A 082 FEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 145**

**3szd\_A 097 WQLRYDFDFVGLGLPGLTFMTRYLHGDHVRLAGVTDDGSEWGRESELGYTLQSGAFKRLNVRWRNSSQRRDW 168**

**## PDB1: 1pho\_A**

**## PDB2: 3szv\_A**

**## row number: 14**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFG 095**

**3szv\_A 000 SDAFDFAGGDYRLTP-ALTASLHQGRLKDI-------------YRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGF---RELDNRAFGALFSLRLG-A 082**

**1pho\_A 096 LRPSLGYVLSKGKDIE----G------IG------DEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 147**

**3szv\_A 083 HAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVA 154**

**## PDB1: 1pho\_A**

**## PDB2: 3szv\_A**

**## row number: 15**

**1pho\_A 000 GFGTSLTYDFG---GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT----------G------GFANKTQNF 081**

**3szv\_A 000 QTFAGLVHTLDLGGQRSLKSDLRFARASEDGG------FRELDNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSW 094**

**1pho\_A 082 EAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 164**

**3szv\_A 095 QLRYDYDFGALGLPGLSFMSRYVSGDNVARGA-ANDGKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNFA-----NDLDENRLILSYSL 179**

**## PDB1: 1pho\_A**

**## PDB2: 3t0s\_A**

**## row number: 16**

**1pho\_A 000 DGFGTSLTYDFG---GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT-----------G------GFANKTQ 080**

**3t0s\_A 000 RQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAA----ISGPVDNRNLNAMLTLRAGAHAFGIGVQKMIGNDAFPVLNGYTTPYVANLMAYQTFTRPQEK 096**

**1pho\_A 081 NFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLD 144**

**3t0s\_A 097 SWQLRYDYDFAGLGLPGLNLMTRYVQGRDIDRGAGRADDSEWERNTDLSYVIQSGPLKSVALKWRNITYRSR 168**

**## PDB1: 1pho\_A**

**## PDB2: 3t0s\_A**

**## row number: 17**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFG 095**

**3t0s\_A 000 SDEFNLAGATYAFTP-RLSASYYYGQLKDI-------------YRQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAA-ISGPVDNRNLNAMLTLRAG-A 084**

**1pho\_A 096 LRPSLGYVLSKGKDIE----G-------IG------DEDLVNYIDVGATYYFN----KNMSAFVDYKINQLD 146**

**3t0s\_A 085 HAFGIGVQKMIGNDAFPVLNGYTTPYVANLMAYQTFTRPQEKSWQLRYDYDFAGLGLPGLNLMTRYVQGRDI 156**

**## PDB1: 1pho\_A**

**## PDB2: 3t24\_A**

**## row number: 18**

**1pho\_A 000 DGFGTSLTYDFG---GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT----------------GGFANKTQN 081**

**3t24\_A 000 KQHYLGLVHTLPIADKQSLKSDIRWARSTDDGS-------SNVDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKS 093**

**1pho\_A 082 FEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 165**

**3t24\_A 094 WQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTNY-----TNDYDENRLIVSYTL 180**

**## PDB1: 1pho\_A**

**## PDB2: 3t24\_A**

**## row number: 19**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQN-----LQ--------SRGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQ 082**

**3t24\_A 000 DNKALNAMFTYSLGY--HAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEW 098**

**1pho\_A 083 NFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYF 130**

**3t24\_A 099 ERDMDIAYVFQSGPLKNLGVKWRNATMRTNY------TNDYDENRLIVSYTL 144**

**## PDB1: 1pho\_A**

**## PDB2: 4frt\_A**

**## row number: 20**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQN-----LQ--S------RGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQ 082**

**4frt\_A 000 NNRALNALFTYRLGG--HAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEW 098**

**1pho\_A 083 NFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYF 130**

**4frt\_A 099 ERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF------GNDIDETRLIVSYAL 144**

**## PDB1: 1pho\_A**

**## PDB2: 4frt\_A**

**## row number: 21**

**1pho\_A 000 KRAEAWATGLKYDANNIYLATFYSETRKMTPIT----------G------GFANKTQNFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLVNY 080**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEWE 100**

**1pho\_A 081 IDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 126**

**4frt\_A 101 RDTDIAYLVQSGPLKNLGIKLRNGTFRSDF-----GNDIDETRLIVSYAL 145**

**## PDB1: 1pho\_A**

**## PDB2: 4frx\_A**

**## row number: 22**

**1pho\_A 000 GKRAEAWATGLKYDANNIYLATFYSETRKMTPI----------T-----------GGFANKTQNFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGD 075**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTA--RG 098**

**1pho\_A 076 EDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNK---LNINNDDIVAVGMTYQF 127**

**4frx\_A 099 DQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**## PDB1: 1pho\_A**

**## PDB2: 4fsp\_A**

**## row number: 23**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQF-DFG 095**

**4fsp\_A 000 ADRFDLAGLDYRIAP-DWTGSYHYGELEQ-------------VYAQHFLGLKGRIGIAADSLESDLRLALSRDTGGA-RGGRIDNRSFSGSLTYRLRN-G 084**

**1pho\_A 096 LRPSLGYVLSKGKDIE----G------IG------DEDLVNYIDVGATYYFN----KNMSAFVDYKINQLD 146**

**4fsp\_A 085 QAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGA 155**

**## PDB1: 1pho\_A**

**## PDB2: 4fsp\_A**

**## row number: 24**

**1pho\_A 000 GKRAEAWATGLKYDA-NNIYLATFYSETRKMTPIT----------G------GFANKTQNFEAVAQYQFD----FGLRPSLGYVLSKGKDIEGIGDEDLV 079**

**4fsp\_A 000 RIDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG-ADGSRE 099**

**1pho\_A 080 NYIDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 127**

**4fsp\_A 100 WERDSDLRYVLQGGALKGLGLVWRNATYRSAF-----SRDIDENRLYLTYEL 146**

**## PDB1: 1pho\_A**

**## PDB2: 4ft6\_A**

**## row number: 25**

**1pho\_A 000 GDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDA--N--NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGLR 096**

**4ft6\_A 000 DRFDYLGAEYRFNAERSQVGLWQARLQDI-------------YRQDYYSLSHKQSFGGWRLGASVGLFDTRDEGAA-KLGELENRALTGFFSATRG-GHS 085**

**1pho\_A 097 PSLGYVLSKGKDIE--------G--------IGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDS 146**

**4ft6\_A 086 LGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHAR 155**

**## PDB1: 1pho\_A**

**## PDB2: 5dl5\_A**

**## row number: 26**

**1pho\_A 000 GKRAEAWATGLKYDANNIYLATFYSETRKMTPIT--------------G-----GFANKTQNFEAVAQYQFD-----FGLRPSLGYVLSKGKDIEGIGDE 076**

**5dl5\_A 000 EKTNNIWAISGTYATGPHSVMLAYQQNTGNVGYDYGQNADGFQSIYLPNSYMSDFIGNHEKSAQIQYNVDFGKLGVLPGLNWTTAFVYGWDIKVRNVTDD 100**

**1pho\_A 077 DLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNK-LNINNDDIVAVGMTYQF 127**

**5dl5\_A 101 AQEREFFNQVKYTVQSGFAKDASLRIRNSYYRASDAYQGAYIGDTNEWRIFLDIPV 156**

**## PDB1: 1pho\_A**

**## PDB2: 5dl6\_A**

**## row number: 27**

**1pho\_A 000 KRAEAWATGLKYDANNIYLATFYSETRKMTPIT----------------GGFANKTQNFEAVAQYQFD---FGLRPSLGYVLSKGKDIEG-IGDEDLVNY 080**

**5dl6\_A 000 VDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERE 100**

**1pho\_A 081 IDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 126**

**5dl6\_A 101 TDFDLGYTVQSGWLKNLGLRARYAIYDNNMLSTANIKPVNETRINIDYTW 150**

**## PDB1: 1pho\_A**

**## PDB2: 5dl7\_A**

**## row number: 28**

**1pho\_A 000 DGFGTSLTYDFG---GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT-----------G-----GFANKTQN 081**

**5dl7\_A 000 QQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSK----KIGEVDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKV 096**

**1pho\_A 082 FEAVAQYQFD---------FGLRPSLGYVLSKGKDIEG-IGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 165**

**5dl7\_A 097 YSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGDQRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTNMTFHSANETRLNVDYTF 194**

**## PDB1: 1pho\_A**

**## PDB2: 5dl7\_A**

**## row number: 29**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDAN-----NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFG 095**

**5dl7\_A 000 TDSFYTLGGSYQLK--DYRLRAYHAELKD-------------IYQQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSK-KIGEVDNRHISGLFGLNYQ-N 083**

**1pho\_A 096 LRPSLGYVLSKGKDIE----G-------I-----GDEDLVNYIDVGATYYFNK---------NMSAFVDYKINQLDS 147**

**5dl7\_A 084 HTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDID 160**

**## PDB1: 1pho\_A**

**## PDB2: 5dl8\_B**

**## row number: 30**

**1pho\_A 000 NGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDA--N--NIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGL 096**

**5dl8\_B 000 SDGLNYIDLRYQFTP-SLKGEYYFGNLEDL-------------YNKHYVGLEHTWKQPTFALTSKFKYFNAKDDGNT---FDIDAENIGLLETVKVK-NH 082**

**1pho\_A 097 RPSLGYVLSKGKDIE----G--I-----------GDEDLVNYIDVGATYYFN---KNMSAFVDYKINQLD 146**

**5dl8\_B 083 TFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDF 152**

**## PDB1: 1pho\_A**

**## PDB2: 5dl8\_B**

**## row number: 31**

**1pho\_A 000 TSLTYDF--GGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPIT------G-----------GFANKTQNFEAV 081**

**5dl8\_B 000 VGLEHTWKQPTFALTSKFKYFNAKDDGN------TFDIDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVM 094**

**1pho\_A 082 AQYQFD---FGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFN----KNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF 161**

**5dl8\_B 095 YGYDFKDYIPGLNAMVKYVYGHDFKAAN-GEKNHETESNVILNYAFQQPLLKGFALQYIRIDYNVKH-----GNDFGEDRLFVNYTK 175**

**## PDB1: 1pho\_A**

**## PDB2: 5ldv\_A**

**## row number: 32**

**1pho\_A 000 DGNKLDVYGKVKAMHYMSDNA-S--------KDGDQSYIRFGFKGETQINDQLTGYGRWEAEFAGNKA-----ESDTAQQKTRLAFAGLKYK-DLGSFDY 085**

**5ldv\_A 000 AIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIA 100**

**1pho\_A 086 GRNLGALYDVEAWTD-M-FPEF----G-GDSSAQTDNFM--TKRASGLATY----------------RNTDFFGVIDGLNLTLQYQGK--NENRD----- 153**

**5ldv\_A 101 GKQQLNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIG--NLYGAAAVGSYDLAGGQFNPQLWL 198**

**1pho\_A 154 -VKKQNGDGFGTSLTYDFG---GSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKM-----------T------PI-- 230**

**5ldv\_A 199 AYWDQVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELD--DKKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGSLLAGEE 296**

**1pho\_A 231 -T-------GGFANKTQNFEAVAQYQFDFGLRPSLGYVLSKGKDIEG-IGDEDLVNYIDVGATYYFNKNMSAFVDYKINQLDSDNK-LNINNDDIVAVGM 320**

**5ldv\_A 297 IFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQA 396**

**1pho\_A 321 TYQF 324**

**5ldv\_A 397 LYKF 400**

**## PDB1: 1prn\_A**

**## PDB2: 5ldv\_A**

**## row number: 33**

**1prn\_A 000 EISLNGYGRFGLQYVEDRGVG-----LEDTIISSRLRINIVGTTETDQGVTFGAKLRMQWDDGDA--------FAGTAGNAAQFWTSY--NGVTVSVGNV 085**

**5ldv\_A 000 DVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIAGKQ 100**

**1prn\_A 086 DTA 88**

**5ldv\_A 101 QLN 103**

**## PDB1: 1prn\_A**

**## PDB2: 5ldv\_A**

**## row number: 34**

**1prn\_A 000 EISLNGYGRFGLQYVEDRGVG-----LEDTIISSRLRINIVGTTETDQGVTFGAKLRMQWDDGDA--------FAGTAGNAAQFWTSY--NGVTVSVGNV 085**

**5ldv\_A 000 DVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIAGKQ 100**

**1prn\_A 086 DTA 88**

**5ldv\_A 101 QLN 103**

**## PDB1: 2fgr\_A**

**## PDB2: 2y0l\_A**

**## row number: 35**

**2fgr\_A 000 GRYIGGYVAYDN-GPLSASLGLAQQKTAVGGLATDRDEITLGASYNFG----VAKLSGLLQQTKFKRDI-GGDIKTNSYMLGASAPVGGVGEVKLQYALY 094**

**2y0l\_A 000 DHFDLGGLDYKLTDQLTASYHYSNLQDV-------YRQHFVGLLHSWPIGPGELTSDLRFARSTDSGSAKAGGIDNKSLNGMFTYSLGN-HAFGAAWQRM 092**

**2fgr\_A 095 DQKA--------------I-------DSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 130**

**2y0l\_A 093 NGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNV 153**

**## PDB1: 2fgr\_A**

**## PDB2: 3jty\_A**

**## row number: 36**

**2fgr\_A 000 DRDEITLGASYNFGVAKLSGLLQQTKFKRDI------------G-------GDIKTNSYMLGASAPVG----GVGEVKLQYALYDQKA----IDSKAHQI 073**

**3jty\_A 000 ENRTWSGLFSAKYGGNTFYVGLQKLTGDSAWMRVNGTSGGTLANDSYNASYDNAKEKSWQVRHDYNFAALGVPGLTLMNRYISGSNVHTATVSDGKEWGR 100**

**2fgr\_A 074 TLGYVHNL----SKRTALYGNLAFLKNKD 98**

**3jty\_A 101 ESEVAYTVQSGTLKNLNLKWRNSTMRRDF 129**

**## PDB1: 2fgr\_A**

**## PDB2: 3jty\_A**

**## row number: 37**

**2fgr\_A 000 GRYIGGYVAYDNG--PLSASLGLAQQKTAVGGLATDRDEITLGASYNFG----VAKLSGLLQQTKFKRDI-GGDIKTNSYMLGASAPVGGVGEVKLQYAL 093**

**3jty\_A 000 DRFNFQGAEYAFNDKRTQIALWNAQLKDI-------YSQQFINLIHSQPLGDWTLGANLGFFYGKEDGSARAGDMENRTWSGLFSAKYGG-NTFYVGLQK 092**

**2fgr\_A 094 YDQKA---------------I-------DSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 130**

**3jty\_A 093 LTGDSAWMRVNGTSGGTLANDSYNASYDNAKEKSWQVRHDYNFAALGVPGLTLMNRYISGSNV 155**

**## PDB1: 2fgr\_A**

**## PDB2: 3syb\_A**

**## row number: 38**

**2fgr\_A 000 DRDEITLGASYNFGVAKLSGLLQQTKFKRDI------------------GGDIKTNSYMLGASAPVG----GVGEVKLQYALYDQKA------------- 065**

**3syb\_A 000 DNDTWSLAFTLGHRAHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDIDGTHYDGDRNGAYG 100**

**2fgr\_A 066 --------IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNKD 98**

**3syb\_A 101 NYAEVRAQDGEKHHELGLMAAYKVQNGPIKDSTFKLTYMMHKASQ 145**

**## PDB1: 2fgr\_A**

**## PDB2: 3szv\_A**

**## row number: 39**

**2fgr\_A 000 ISYYTPNFGGFNAGFGYAFDEKQTIGTADSVGRYIGGYVAYDNG-----PLSASLGLAQQKTAVGGLATDRDEITLGASYNFGVAKLSGLLQQTKFKRDI 095**

**3szv\_A 000 GDYRL--TPALTASLHQGRLKDI--------YRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGFRELDNRAFGALFSLRLGAHAVAAGYQRISGDDPY 090**

**2fgr\_A 096 -----------G-------GDIKTNSYMLGASAPVG----GVGEVKLQYALYDQKA----IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 161**

**3szv\_A 091 PYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGAANDGKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSN 186**

**## PDB1: 2fgr\_A**

**## PDB2: 3szv\_A**

**## row number: 40**

**2fgr\_A 000 GRYIGGYVAYDN-GPLSASLGLAQQKTAVGGLATDRDEITLGASYNFG-----VAKLSGLLQQTKFKRDIGGDIKTNSYMLGASAPVGGVGEVKLQYALY 094**

**3szv\_A 000 DAFDFAGGDYRLTPALTASLHQGRLKDI-------YRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGG-FRELDNRAFGALFSLRLGA-HAVAAGYQRI 091**

**2fgr\_A 095 DQKA--------------I-------DSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 130**

**3szv\_A 092 SGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNV 152**

**## PDB1: 2fgr\_A**

**## PDB2: 3t24\_A**

**## row number: 41**

**2fgr\_A 000 GGFNAGFGYAFDEKQTIGTADSVGRYIGGYVAYDNG-----PLSASLGLAQQKTAVGGLATDRDEITLGASYNFGVAKLSGLLQQTKFKRDI-------- 087**

**3t24\_A 000 DNLSTSYHYGKLDNF--------YKQHYLGLVHTLPIADKQSLKSDIRWARSTDDGS-SNVDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADP 091**

**2fgr\_A 088 ---G-------GDIKTNSYMLGASAPVGG----VGEVKLQYALYDQKA-----IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 153**

**3t24\_A 092 YLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTN 180**

**## PDB1: 2fgr\_A**

**## PDB2: 3t24\_A**

**## row number: 42**

**2fgr\_A 000 GRYIGGYVAYDN-GPLSASLGLAQQKTAVGGLATDRDEITLGASYNFG-----VAKLSGLLQQTKFKRDIGGDIKTNSYMLGASAPVGGVGEVKLQYALY 094**

**3t24\_A 000 DKFDFAGGSYKWTDNLSTSYHYGKLDNF-------YKQHYLGLVHTLPIADKQSLKSDIRWARSTDDGS--SNVDNKALNAMFTYSLGY-HAFGVGYQKM 090**

**2fgr\_A 095 DQKA---------------------IDSKAHQITLGYVHNLSK----RTALYGNLAFLKNKD 131**

**3t24\_A 091 SGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNID 152**

**## PDB1: 2fgr\_A**

**## PDB2: 4frt\_A**

**## row number: 43**

**2fgr\_A 000 ISYYTPNFGGFNAGFGYAFDEKQTIGTADSVGRYIGGYVAYDNG-----PLSASLGLAQQKTAVGGLATDRDEITLGASYNFGVAKLSGLLQQTKFKRDI 095**

**4frt\_A 000 GTYRWS--ERLSSSYHYANLEDF--------YRQHHLGVQHLLPLADDQSLKSDIRWARSTDEGG-SRVNNRALNALFTYRLGGHAFGLGYQRMSGDSGF 089**

**2fgr\_A 096 ----------G--------GDIKTNSYMLGASAPVG----GVGEVKLQYALYDQKA-----IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNKD 162**

**4frt\_A 090 AYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEWERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF 187**

**## PDB1: 2fgr\_A**

**## PDB2: 4frt\_A**

**## row number: 44**

**2fgr\_A 000 VGRYIGGYVAYDN-GPLSASLGLAQQKTAVGGLATDRDEITLGASYNFG-----VAKLSGLLQQTKFKRDIGGDIKTNSYMLGASAPVGGVGEVKLQYAL 094**

**4frt\_A 000 SDRFDFAGGTYRWSERLSSSYHYANLEDF-------YRQHHLGVQHLLPLADDQSLKSDIRWARSTDEG--GSRVNNRALNALFTYRLGG-HAFGLGYQR 090**

**2fgr\_A 095 YDQKA--------------I-------DSKAHQITLGYVHNLS----KRTALYGNLAFLKN 130**

**4frt\_A 091 MSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEH 151**

**## PDB1: 2fgr\_A**

**## PDB2: 4frx\_A**

**## row number: 45**

**2fgr\_A 000 VGRYIGGYVAYDNGPLSASLGLAQQKTAVGGLATDRDEITLGASYNFGVAKLSGLLQQTKFKRDIGGDIKTNSYMLGASAPVG----GVGEVKLQYALYD 096**

**4frx\_A 000 DNRAFSGLFTYTVSGHSIGAGYQILNGDSD-----FPFLNRGDG-EGSTAYLITDVQIGKF-----QRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGD 089**

**2fgr\_A 097 QKA---IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNKD 132**

**4frx\_A 090 KIKTARGDQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGL 132**

**## PDB1: 2fgr\_A**

**## PDB2: 4fso\_A**

**## row number: 46**

**2fgr\_A 000 GRYIGGYVAYDN-GPLSASLGLAQQKTAVGGLATDRDEITLGASYNF--G--VAKLSGLLQQTKFKRDI-GGDIKTNSYMLGASAPVGGVGEVKLQYALY 094**

**4fso\_A 000 NRFDAYQLDYQVNDGLLLQYAQGGLRNV-------YRQRYLGAVGKRQVGAGKLSADLRWFDSEDAGAARAGKIDNRALSLLLAYAQGG-HTLSAGWQRM 092**

**2fgr\_A 095 DQKA---------------------IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 130**

**4fso\_A 093 NGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHI 153**

**## PDB1: 2fgr\_A**

**## PDB2: 4fsp\_A**

**## row number: 47**

**2fgr\_A 000 DRDEITLGASYNF-GVAKLSGLLQQTKFKRDI------------G------GDIKTNSYMLGASAPVG----GVGEVKLQYALYDQKA----IDSKAHQI 073**

**4fsp\_A 000 DNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKGADGSREWER 100**

**2fgr\_A 074 TLGYVHNLS----KRTALYGNLAFLKNKD 98**

**4fsp\_A 101 DSDLRYVLQGGALKGLGLVWRNATYRSAF 129**

**## PDB1: 2fgr\_A**

**## PDB2: 4fsp\_A**

**## row number: 48**

**2fgr\_A 000 GRYIGGYVAYDN-GPLSASLGLAQQKTAVGGLATDRDEITLGASYNFG----VAKLSGLLQQTKFKRDI-GGDIKTNSYMLGASAPV-GGVGEVKLQYAL 093**

**4fsp\_A 000 DRFDLAGLDYRIAPDWTGSYHYGELEQV-------YAQHFLGLKGRIGIAADSLESDLRLALSRDTGGARGGRIDNRSFSGSLTYRLRNG-QAFGLGYQR 092**

**2fgr\_A 094 YDQKA---------------------IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNK 130**

**4fsp\_A 093 MSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGA 154**

**## PDB1: 2fgr\_A**

**## PDB2: 4ft6\_A**

**## row number: 49**

**2fgr\_A 000 TDRDEITLGASYNFGVAKLSGLLQQTKFKRDI------------------GGDIKTNSYMLGASAPVG----GVGEVKLQYALYDQKA----IDSKAHQI 074**

**4ft6\_A 000 LENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKAMDDGRAWER 100**

**2fgr\_A 075 TLGYVHNLS----KRTALYGNLAFLKNKD 99**

**4ft6\_A 101 DVDVAYVIQSGPLKNLGLRWRNAMLRSNH 129**

**## PDB1: 2fgr\_A**

**## PDB2: 4ft6\_A**

**## row number: 50**

**2fgr\_A 000 VGRYIGGYVAYDNGPLSASLGLAQQKTAVG------------G-------LATDRDEITLGASYNFG-----VAKLSGLLQQTKFKRDI-GGDIKTNSYM 075**

**4ft6\_A 000 ENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKAMDDGRAWERD 100**

**2fgr\_A 076 LGASAPVG----GVGEVKLQYALYDQKAIDSKAHQITLGYVHNLS 116**

**4ft6\_A 101 VDVAYVIQSGPLKNLGLRWRNAMLRSNH-AADVDENRLILSYSLP 144**

**## PDB1: 2fgr\_A**

**## PDB2: 4ft6\_A**

**## row number: 51**

**2fgr\_A 000 GRYIGGYVAYDNG--PLSASLGLAQQKTAVGGLATDRDEITLGASYNF--GV--AKLSGLLQQTKFKRDI-GGDIKTNSYMLGASAPVGGVGEVKLQYAL 093**

**4ft6\_A 000 DRFDYLGAEYRFNAERSQVGLWQARLQDI-------YRQDYYSLSHKQSFGGWRLGASVGLFDTRDEGAAKLGELENRALTGFFSATRGG-HSLGAGYQR 092**

**2fgr\_A 094 YDQKA---------------------IDSKAHQITLGYVHNLSK----RTALYGNLAFLKNK 130**

**4ft6\_A 093 MYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHA 154**

**## PDB1: 2fgr\_A**

**## PDB2: 5dl5\_A**

**## row number: 52**

**2fgr\_A 000 VGRYIGGYVAYDNGPLSASLGLAQQKTAVGGLATDRDEITLGASYNFGVAKLS-GLLQQTKFKRDIGGDIKTNSYMLGASAPVG-----GVGEVKLQYAL 094**

**5dl5\_A 000 TNNIWAISGTYATGPHSVMLAYQQNTGNVG-----Y-DYGQ-NA--DGFQSIYLPNSYMSDF-----IGNHEKSAQIQYNVDFGKLGVLPGLNWTTAFVY 086**

**2fgr\_A 095 YDQ-KA----IDSKAHQITLGYVHNLS----KRTALYGNLAFLKNKD 132**

**5dl5\_A 087 GWDIKVRNVTDDAQEREFFNQVKYTVQSGFAKDASLRIRNSYYRASD 133**

**## PDB1: 2fgr\_A**

**## PDB2: 5dl6\_A**

**## row number: 53**

**2fgr\_A 000 DRDEITLGASYNFGVAKLSGLLQQTKFKRDI------------------GGDIKTNSYMLGASAPVG---GVGEVKLQYALYDQKA------IDSKAHQI 073**

**5dl6\_A 000 DNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERET 100**

**2fgr\_A 074 TLGYVHNLS----KRTALYGNLAFLKNKD 98**

**5dl6\_A 101 DFDLGYTVQSGWLKNLGLRARYAIYDNNM 129**

**## PDB1: 2fgr\_A**

**## PDB2: 5dl7\_A**

**## row number: 54**

**2fgr\_A 000 VGRYIGGYVAYDNGPLSASLGLAQQKTAVGGLATDRDEITLGASYNF--G-V--AKLSGLLQQTKFKRDI-GGDIKTNSYMLGASAPVGGVGEVKLQYAL 094**

**5dl7\_A 000 TDSFYTLGGSYQLKDYRLRAYHAELKDIY-----QQ--QFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKKIGEVDNRHISGLFGLNYQN-HTVSLGYMQ 092**

**2fgr\_A 095 YDQKA---------------------IDSKAHQITLGYVHNLSK---------RTALYGNLAFLKN 130**

**5dl7\_A 093 SFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGED 158**

**## PDB1: 2fgr\_A**

**## PDB2: 5dl8\_B**

**## row number: 55**

**2fgr\_A 000 TDRDEITLGASYNFGVAKLSGLLQQTKFKRDI------------G-------GDIKTNSYMLGASAPVG---GVGEVKLQYALYDQKA----IDSKAHQI 074**

**5dl8\_B 000 IDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAANGEKNHETES 100**

**2fgr\_A 075 TLGYVHNLS----KRTALYGNLAFLKN 97**

**5dl8\_B 101 NVILNYAFQQPLLKGFALQYIRIDYNV 127**

**## PDB1: 2fgr\_A**

**## PDB2: 5dl8\_B**

**## row number: 56**

**2fgr\_A 000 VGRYIGGYVAYDNGPLSASLGLAQQKTAVG--------G------------LATDRDEITLGASYNFG----VAKLSGLLQQTKFKRDI-GGDIKTNSYM 075**

**5dl8\_B 000 DAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAANGEKNHETESN 100**

**2fgr\_A 076 LGASAPVG----GVGEVKLQYALYDQKAIDSKAHQITLGYVHNL 115**

**5dl8\_B 101 VILNYAFQQPLLKGFALQYIRIDYNVKH-GNDFGEDRLFVNYTK 143**

**## PDB1: 2fgr\_A**

**## PDB2: 5dl8\_B**

**## row number: 57**

**2fgr\_A 000 VGRYIGGYVAYDNGPLSASLGLAQQKTAVG--------G------------LATDRDEITLGASYNFG----VAKLSGLLQQTKFKRDI-GGDIKTNSYM 075**

**5dl8\_B 000 DAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAANGEKNHETESN 100**

**2fgr\_A 076 LGASAPVG----GVGEVKLQYALYDQKAIDSKAHQITLGYVHNL 115**

**5dl8\_B 101 VILNYAFQQPLLKGFALQYIRIDYNVKH-GNDFGEDRLFVNYTK 143**

**## PDB1: 2fgr\_A**

**## PDB2: 5ldv\_A**

**## row number: 58**

**2fgr\_A 000 RYIGGYVAYDN--G---PLSASLGLAQQKTAVG----GLATDRDEITLGASYNFGVAKLSGLLQQTKFKRDI--------GG------------------ 065**

**5ldv\_A 000 FFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDDKKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGSLLAGEEIFYTTGSRL 100**

**2fgr\_A 066 ---DIKTNSYMLGASAPVGGVGEVKLQ--YALYDQKAI--DS--KAHQITLGYVHNLSKRTALYGNLAFLKNKDASTLGLQAKGVYAGGVQAGESQTGVQ 156**

**5ldv\_A 101 NGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVN------------TNESADHSTVR 188**

**2fgr\_A 157 VGIRHAF 163**

**5ldv\_A 189 LQALYKF 195**

**## PDB1: 2fgr\_A**

**## PDB2: 5ldv\_A**

**## row number: 59**

**2fgr\_A 000 DRDEITLGASYNF-GVAKLSGLLQQTKFKRDI---GGDIKTNSYMLGASAPVGGVGEVKLQYALYDQKAI-----DSKAHQITLGYVHN 80**

**5ldv\_A 000 RNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQALYK 89**

**## PDB1: 2por\_A**

**## PDB2: 2y0l\_A**

**## row number: 60**

**2por\_A 000 EMAVAAAYTF--G--NYTVGLGYEKIDSPDT--ALMADMEQLELAAIAKFGATNVKAYYADGELDRDFARA--VFDL--TPVA-AAATAVDHKAYGLSVD 089**

**2y0l\_A 000 QHFVGLLHSWPIGPGELTSDLRFARSTDSGSAKAGGIDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYD 100**

**2por\_A 090 STFG----A-TTVGGYVQVLDID------TIDDVTYYGLGASYDLG----GGASIVGGIADNDLP--NSDMVADLGVKFKF 153**

**2y0l\_A 101 YDFVGLGIPGLTFMTRYVKGDNVELAGQSGEGREWERNTELQYVFQSGALKNLGIRWRNATFRSNFTRDIDENRLIVSYTL 181**

**## PDB1: 2por\_A**

**## PDB2: 2y0l\_A**

**## row number: 61**

**2por\_A 000 DDAQEMAVAAAYTFGNYTVGLGYEKIDSPDT-----------A--------LMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPV 076**

**2y0l\_A 000 IDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG--------- 091**

**2por\_A 077 AAAATAVDHKAYGLSVDSTFG----A-TTVGGYVQVLDIDTIDDVTYYGLGASYDL 127**

**2y0l\_A 092 --QSGEGREWERNTELQYVFQSGALKNLGIRWRNATFRSNFTRDIDENRLIVSYTL 145**

**## PDB1: 2por\_A**

**## PDB2: 3sy7\_A**

**## row number: 62**

**2por\_A 000 AQEMAVAAAYTF-GNYTVGLGYEKIDSPDTALMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDSTF 094**

**3sy7\_A 000 KSADFIGGRYAITDNLSASLYGAELEDI-------YRQYYLNSNYTIPLASDQSLGFDFNIYRTNDEGKAK------------AGDISNTTWSLAAAYTL 081**

**2por\_A 095 GATTVGGYVQVLDID-------------------------------TIDDVTYYGLGASYDLG----GGASIVGGIADNDL 140**

**3sy7\_A 082 DAHTFTLAYQKVHGDQPFDYIGFGRNGSGAGGDSIFLANSVQYSDFNGPGEKSWQARYDLNLASYGVPGLTFMVRYINGKD 162**

**## PDB1: 2por\_A**

**## PDB2: 3sy9\_A**

**## row number: 63**

**2por\_A 000 DAQEMAVAAAYTF-GNYTVGLGYEKIDSPDTALMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDST 094**

**3sy9\_A 000 SHHLSWLGGTWGGIEGFTSSLYAAELQNV-------WKQYYADVDYTYEIDDNWSLNPGAHYYKTVDSGDSL------------LGRIDNNTYSLHFAVG 081**

**2por\_A 095 FGATTVGGYVQVLDID-----------------------TIDDVTYYGLGASYDLGG----GASIVGGIADNDL 141**

**3sy9\_A 082 YRQHTVTAVLQKVNGNTPFDYINQGDSIFLDNSQQYSDFNGPNEKSWKLQYDYDFVALGVPGLSASASYSRGKL 155**

**## PDB1: 2por\_A**

**## PDB2: 3syb\_A**

**## row number: 64**

**2por\_A 000 DAQEMAVAAAYTF-GNYTVGLGYEKIDSPDTALMADMEQLELAAIAKFG----A--TNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDS 093**

**3syb\_A 000 GDRLNYLGGNYKPLDGLEISLYGSHFQDV-------WNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAR------------EAGYIDNDTWSLAFTL 081**

**2por\_A 094 TFGATTVGGYVQVLDID----------------------TIDDVTYYGLGASYDLG----GGASIVGGIADNDL 141**

**3syb\_A 082 GHRAHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWD 155**

**## PDB1: 2por\_A**

**## PDB2: 3szv\_A**

**## row number: 65**

**2por\_A 000 DAQEMAVAAAYTFGNYTVGLGYEKIDSPDT-----------A--------LMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPVA 076**

**3szv\_A 000 DNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGA---------- 090**

**2por\_A 077 AAATAVDHKAYGLSVDSTFG----A-TTVGGYVQVLDIDTIDDVTYYGLGASYDLG 127**

**3szv\_A 091 --ANDGKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNFANDLDENRLILSYSLA 144**

**## PDB1: 2por\_A**

**## PDB2: 3t0s\_A**

**## row number: 66**

**2por\_A 000 DAQEMAVAAAYTF-GNYTVGLGYEKIDSPDTALMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDST 094**

**3t0s\_A 000 SDEFNLAGATYAFTPRLSASYYYGQLKDI-------YRQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAAI------------SGPVDNRNLNAMLTLR 081**

**2por\_A 095 FGATTVGGYVQVLDID-----------------------TIDDVTYYGLGASYDLG----GGASIVGGIADNDL 141**

**3t0s\_A 082 AGAHAFGIGVQKMIGNDAFPVLNGYTTPYVANLMAYQTFTRPQEKSWQLRYDYDFAGLGLPGLNLMTRYVQGRD 155**

**## PDB1: 2por\_A**

**## PDB2: 3t24\_A**

**## row number: 67**

**2por\_A 000 DAQEMAVAAAYTFGNYTVGLGYEKIDS 27**

**3t24\_A 000 DNKALNAMFTYSLGYHAFGVGYQKMSG 27**

**## PDB1: 2por\_A**

**## PDB2: 4frt\_A**

**## row number: 68**

**2por\_A 000 ADMEQLELAAIAKFGATNVKAYYADGELD 29**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGD 29**

**## PDB1: 2por\_A**

**## PDB2: 4frt\_A**

**## row number: 69**

**2por\_A 000 DAQEMAVAAAYTFGNYTVGLGYEKIDS 27**

**4frt\_A 000 NNRALNALFTYRLGGHAFGLGYQRMSG 27**

**## PDB1: 2por\_A**

**## PDB2: 4frx\_A**

**## row number: 70**

**2por\_A 000 MADMEQLELAAIAKFGATNVKAYYADGELDRDFARAV---------FDLTPV-AAAATAVDHKAYGLSVDSTFG----A-TTVGGYVQVLDID----TID 081**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTARGDQ 100**

**2por\_A 082 DVTYYGLGASYDLG----GGASIVGGIADNDLP----------NSDMVADLGVKFKF 124**

**4frx\_A 101 SEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**## PDB1: 2por\_A**

**## PDB2: 4fso\_A**

**## row number: 71**

**2por\_A 000 DDAQEMAVAAAYTFGNYTVGLGYEKIDSPDT-----------A--------LMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPV 076**

**4fso\_A 000 IDNRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLAN--------- 091**

**2por\_A 077 AAAATAVDHKAYGLSVDSTFG----A-TTVGGYVQVLDID---TIDDVTYYGLGASYDLG 128**

**4fso\_A 092 ---GDEGKEWERDIELKYIVQSGRFKDLSLRLRNATYRTDFERSARDVDEVRLIASYNLS 148**

**## PDB1: 2por\_A**

**## PDB2: 4fsp\_A**

**## row number: 72**

**2por\_A 000 DAQEMAVAAAYTF-GNYTVGLGYEKIDSPDT-----------A--------LMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPV 075**

**4fsp\_A 000 DNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG--------- 091**

**2por\_A 076 AAAATAVDHKAYGLSVDSTFG----A-TTVGGYVQVLDIDTIDDVTYYGLGASYDL 126**

**4fsp\_A 092 ---ADGSREWERDSDLRYVLQGGALKGLGLVWRNATYRSAFSRDIDENRLYLTYEL 144**

**## PDB1: 2por\_A**

**## PDB2: 4fsp\_A**

**## row number: 73**

**2por\_A 000 EMAVAAAYTF--G--NYTVGLGYEKIDSPDT--ALMADMEQLELAAIAKF-GATNVKAYYADGELDRDFARA----VFDLTPVA-AAATAVDHKAYGLSV 088**

**4fsp\_A 000 QHFLGLKGRIGIAADSLESDLRLALSRDTGGARGGRIDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRY 100**

**2por\_A 089 DSTFG----A-TTVGGYVQVLDI-D----TIDDVTYYGLGASYDLG----GGASIVGGIADNDLP--NSDMVADLGVKFKF 153**

**4fsp\_A 101 DCDFAPLGVPGLSLMTRYFSGHGAKPKGADGSREWERDSDLRYVLQGGALKGLGLVWRNATYRSAFSRDIDENRLYLTYEL 181**

**## PDB1: 2por\_A**

**## PDB2: 4ft6\_A**

**## row number: 74**

**2por\_A 000 DAQEMAVAAAYTFGNYTVGLGYEKIDSPDT-------------------ALMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPVA 076**

**4ft6\_A 000 ENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA---------- 090**

**2por\_A 077 AAATAVDHKAYGLSVDSTFG----A-TTVGGYVQVLDIDTIDDVTYYGLGASYDLG 127**

**4ft6\_A 091 --MDDGRAWERDVDVAYVIQSGPLKNLGLRWRNAMLRSNHAADVDENRLILSYSLP 144**

**## PDB1: 2por\_A**

**## PDB2: 5dl6\_A**

**## row number: 75**

**2por\_A 000 QEMAVAAAYT--FG-NYT--VGLGYEKIDSPDT--ALMADMEQLELAAIAKFGATNVKAYYADGELDRDFARAVFDLTP-----V---AAAATAVDHKAY 085**

**5dl6\_A 000 NQTMVGALHQYKINDTTNFSSQLRYYRSRDDGQAKAGLVDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFP---YLTGGETGLLIDTWPGEFLNPKEKAY 097**

**2por\_A 086 GLSVDSTFG---A-TTVGGYVQVLDID-------TIDDVTYYGLGASYDLG----GGASIVGGIADNDLPN-------SDMVADLGVKFKF 154**

**5dl6\_A 098 SFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERETDFDLGYTVQSGWLKNLGLRARYAIYDNNMLSTANIKPVNETRINIDYTW 188**

**## PDB1: 2por\_A**

**## PDB2: 5dl6\_A**

**## row number: 76**

**2por\_A 000 QEMAVAAAYT--FG-NYT--VGLGYEKIDSPDT--ALMADMEQLELAAIAKFGATNVKAYYADGELDRDFARAVFDLTP-----V---AAAATAVDHKAY 085**

**5dl6\_A 000 NQTMVGALHQYKINDTTNFSSQLRYYRSRDDGQAKAGLVDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFP---YLTGGETGLLIDTWPGEFLNPKEKAY 097**

**2por\_A 086 GLSVDSTFG---A-TTVGGYVQVLDID-------TIDDVTYYGLGASYDLG----GGASIVGGIADNDLPN-------SDMVADLGVKFKF 154**

**5dl6\_A 098 SFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERETDFDLGYTVQSGWLKNLGLRARYAIYDNNMLSTANIKPVNETRINIDYTW 188**

**## PDB1: 2por\_A**

**## PDB2: 5dl6\_A**

**## row number: 77**

**2por\_A 000 DAQEMAVAAAYTF-GNYTVGLGYEKIDSPDTALMADMEQLELAAIAKFG---AT--NVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDST 094**

**5dl6\_A 000 TDGLYYLGGNYQFNPALKLTAFYMDVDDL-------YNQTMVGALHQYKINDTTNFSSQLRYYRSRDDGQAK------------AGLVDNDLYHAHFELK 081**

**2por\_A 095 FGATTVGGYVQVLDID----------------------TIDDVTYYGLGASYDLG---GGASIVGGIADNDL 141**

**5dl6\_A 082 HQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHN 153**

**## PDB1: 2por\_A**

**## PDB2: 5dl7\_A**

**## row number: 78**

**2por\_A 000 QEMAVAAAYTF--G---NYTVGLGYEKIDSPDT--ALMADMEQLELAAIAKFGATNVKAYYADGELDRDFARAVFDLT--P---VAA---AATAVDHKAY 085**

**5dl7\_A 000 QQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKKIGEVDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLP---FLSGTESPVVLDFMSSDYSNKDEKVY 097**

**2por\_A 086 GLSVDSTFG---------A-TTVGGYVQVLDI-D------TIDDVTYYGLGASYDLG----GGASIVGGIADNDLPN-------SDMVADLGVKFKF 154**

**5dl7\_A 098 SIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGDQRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTNMTFHSANETRLNVDYTF 194**

**## PDB1: 2por\_A**

**## PDB2: 5dl7\_A**

**## row number: 79**

**2por\_A 000 DAQEMAVAAAYTFGNYTVGLGYEKIDSPDTALMADMEQLELAAIAKFG-----ATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDSTF 095**

**5dl7\_A 000 TDSFYTLGGSYQLKDYRLRAYHAELKD-------IYQQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKK------------IGEVDNRHISGLFGLNY 081**

**2por\_A 096 GATTVGGYVQVLDID----------------------TIDDVTYYGLGASYDLGG---------GASIVGGIADNDL 141**

**5dl7\_A 082 QNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGED 158**

**## PDB1: 2por\_A**

**## PDB2: 5dl8\_B**

**## row number: 80**

**2por\_A 000 YTVGLGYEKIDSPDTALMADMEQLELAAIAKFGATNVKAYYADGELDRDFARAV------FDLTPVAAAATAVDHKAYGLSVDSTFG---A-TTVGGYVQ 090**

**5dl8\_B 000 LTSKFKYFNAKDDGNTFDIDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYV 100**

**2por\_A 091 VLDID-----TIDDVTYYGLGASYDLG----GGASIVGGIADNDLP--NSDMVADLGVKFKF 141**

**5dl8\_B 101 YGHDFKAANGEKNHETESNVILNYAFQQPLLKGFALQYIRIDYNVKHGNDFGEDRLFVNYTK 162**

**## PDB1: 2por\_A**

**## PDB2: 5dl8\_B**

**## row number: 81**

**2por\_A 000 DAQEMAVAAAYTF-GNYTVGLGYEKIDSPDTALMADMEQLELAAIAKF--G--ATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDSTF 095**

**5dl8\_B 000 SDGLNYIDLRYQFTPSLKGEYYFGNLEDL-------YNKHYVGLEHTWKQPTFALTSKFKYFNAKDDGNT--------------FDIDAENIGLLETVKV 079**

**2por\_A 096 GATTVGGYVQVLDID----------T-------------IDDVTYYGLGASYDLG---GGASIVGGIADNDL 141**

**5dl8\_B 080 KNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHD 151**

**## PDB1: 2por\_A**

**## PDB2: 5ldv\_A**

**## row number: 82**

**2por\_A 000 ADMEQLELAAIAKF-GATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDSTFGA-TTVGGYVQVLDIDT------IDDVTYYGLGASYD 92**

**5ldv\_A 000 GRNIFGYVTGGYTFNETVRVGADFVYGGTKTEAT----------THLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQALYK 90**

**## PDB1: 2por\_A**

**## PDB2: 5ldv\_A**

**## row number: 83**

**2por\_A 000 ADMEQLELAAIAKF-GATNVKAYYADGELDRDFARAVFDLTPVAAAATAVDHKAYGLSVDSTFGA-TTVGGYVQVLDIDT------IDDVTYYGLGASYD 92**

**5ldv\_A 000 GRNIFGYVTGGYTFNETVRVGADFVYGGTKTEAT----------THLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQALYK 90**

**## PDB1: 2por\_A**

**## PDB2: 5ldv\_A**

**## row number: 84**

**2por\_A 000 VKLSGDARMGVMYNGDDW-----------NFSSRSRVLFTMSGTTDSGLEFGASFKAHESV------------GAETGEDGTVFLSG--AFGKIEMGDAL 075**

**5ldv\_A 000 VDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIAGKQQ 100**

**2por\_A 076 GASEALFG--D-L-YE---VGYTDL---DDRGGNDIPYLTGDE-RLTAEDNP--------VLLYTY-SAGA-FSVAASMSDG--KVG-E------TSEDD 145**

**5ldv\_A 101 LNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIGNLYGAAAVGSYDLAGGQFNPQLWLAYWDQV 200**

**2por\_A 146 AQEMAVAAAYTFG---N--YTVGLGYEKIDSPDT----ALMADMEQLELAAIAKFGATNVKAYYADGELDRD--------FARA---VF--DL--TP-VA 220**

**5ldv\_A 201 AFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDDKKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGSLLAGEEIFYTTGSR 300**

**2por\_A 221 AAATAVDHKAYGLSVDSTFG-ATTVGGYVQVLDIDT-------IDDVTYYGLGASYDLGGGASIVGGIADNDLP--------NSDMVADLGVKFKF 300**

**5ldv\_A 301 LNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQALYKF 396**

**## PDB1: 2y0l\_A**

**## PDB2: 2zfg\_A**

**## row number: 85**

**2y0l\_A 000 IDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG------QSG 094**

**2zfg\_A 000 SNGDGVGGSISYEYEGFGIVGAYGAADRTNLQE-A---QP---L------GNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGF 082**

**2y0l\_A 095 EGREWERNTELQYVFQSGALKNLGIRWRNATFRSNF------TRDIDENRLIVSYTL 145**

**2zfg\_A 083 ANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYF 135**

**## PDB1: 2y0l\_A**

**## PDB2: 3nsg\_A**

**## row number: 86**

**2y0l\_A 000 DHFDLGGLDYKLTDQLTASYHYSNLQD------------VYRQHFVGLLHSWPIGPGELTSDLRFARSTDSGSA-------KAGGIDNKSLNGMFTYSLG 081**

**3nsg\_A 000 GDGVGYTMAYEF-DGFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDA--N--NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQYQFD 095**

**2y0l\_A 082 -NHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG-QSGEGREWERNTELQYVF 175**

**3nsg\_A 096 FGLRPAISYVQSKGKQLN-------G--------AGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 172**

**## PDB1: 2y0l\_A**

**## PDB2: 3nsg\_A**

**## row number: 87**

**2y0l\_A 000 DNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG------QSGE 094**

**3nsg\_A 000 NGDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQD--------RD------GNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMA 081**

**2y0l\_A 095 GREWERNTELQYVFQSGALKNLGIRWRNATFRSNF-------TRDIDENRLIVSYTL 144**

**3nsg\_A 082 NKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYF 134**

**## PDB1: 2y0l\_A**

**## PDB2: 3nsg\_A**

**## row number: 88**

**2y0l\_A 000 QHFVGLLHSWPIGPGELTSDLRFARSTDSGSAK---AGGIDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQL 097**

**3nsg\_A 000 GVGYTMAYEFD----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT-V-----TD----TVEMANKTQNLEV 086**

**2y0l\_A 098 RYDYDFVGLGIPGLTFMTRYVKGDNVELAG-QSGEGREWERNTELQYVFQSGALKNLGIRWRNATFRSNFT-------RDIDENRLIVSYTL 181**

**3nsg\_A 087 VAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 170**

**## PDB1: 2y0l\_A**

**## PDB2: 4d65\_A**

**## row number: 89**

**2y0l\_A 000 HFDLGGLDYKLTDQLTASYHYSNLQD--------------VYRQHFVGLLHSWPIGPGELTSDLRFARSTDSGSAK-----AGGIDNKSLNGMFTYSLG- 080**

**4d65\_A 000 DGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD----ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYSFDF 096**

**2y0l\_A 081 NHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNV 152**

**4d65\_A 097 GLTPSIGYNQSKGKNL--------G--------NYGNKDLVKYIAVGASYDFN----KNMAAVIDYKINLLK 148**

**## PDB1: 2y0l\_A**

**## PDB2: 5fvn\_A**

**## row number: 90**

**2y0l\_A 000 DHFDLGGLDYKLTDQLTASYHYSNLQD-------------VYRQHFVGLLHSWPIGPGELTSDLRFARSTDSGSA--KAGGIDNKSLNGMFTYSLG-NHA 084**

**5fvn\_A 000 GDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN----NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFGLR 096**

**2y0l\_A 085 FGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG--QSGEGREWERNTELQYVF 175**

**5fvn\_A 097 PSVAYLQSKGKDLE-------N--------GYGDQDLLKYVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 170**

**## PDB1: 2y0l\_A**

**## PDB2: 5nxr\_A**

**## row number: 91**

**2y0l\_A 000 GIDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG-QSGEGRE 099**

**5nxr\_A 000 GKRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG----D-----L-----DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLV 082**

**2y0l\_A 100 WERNTELQYVFQSGALKNLGIRWRNATFRSNF--------TRDIDENRLIVSYTL 146**

**5nxr\_A 083 KYISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 133**

**## PDB1: 2y0l\_A**

**## PDB2: 5nxr\_A**

**## row number: 92**

**2y0l\_A 000 DNKSLNGMFTYSLG-NHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAG--QSGEGRE 097**

**5nxr\_A 000 NGDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGD----SYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANKT 091**

**2y0l\_A 098 WERNTELQYVFQSGALKNLGIRWRNATFRSNF-------TRDIDENRLIVSYTL 144**

**5nxr\_A 092 ENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVKYISVGSYYYF 141**

**## PDB1: 2y0l\_A**

**## PDB2: 5nxr\_A**

**## row number: 93**

**2y0l\_A 000 RQHFVGLLHSWPIGPGELTSDLRFARSTDSGSAK---AGGIDNKSLNGMFTYSLG-NHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSW 096**

**5nxr\_A 000 QAWNVGGKFDAN----NVYLAAMYGQTQNTSRYGDLDLIANKTENVELVAQYLFDFGLKPSIGYNQSKGKNLG-------N--------GYDNQDLVKYI 081**

**2y0l\_A 097 QLRYDYDFVGLGIPGLTFMTRYVKGDNV 124**

**5nxr\_A 082 SVGSYYYFN----KNMSAVVDYKINLLK 105**

**## PDB1: 2y0l\_A**

**## PDB2: 6ehb\_A**

**## row number: 94**

**2y0l\_A 000 DHFDLGGLDYKLTD-QLTASYHYSNLQDVYRQHFVGLLHSWPIGPGELTSDLRFARSTDSGSAKAGGIDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFP 099**

**6ehb\_A 000 EDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME----NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETAK--- 087**

**2y0l\_A 100 YLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNV 153**

**6ehb\_A 088 -------------------KTSADNFAIDATYYFK----PNFRSYISYQFNLLD 118**

**## PDB1: 2y0l\_A**

**## PDB2: 6ehb\_A**

**## row number: 95**

**2y0l\_A 000 DNKSLNGMFTYSLG--NHAFGAAWQRMNGDDAF----PYLEGSNPYLVNFV-QVNDF-AGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAGQS 092**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEYMLAASYRME--NLYFAGLFTDGELAKDVDYTGYELAAGYKLG----Q-AAFTATYNNAETAK----- 088**

**2y0l\_A 093 GEGREWERNTELQYVFQSGALKNLGIRWRNATFRSNF-----TRDIDENRLIVSYTL 144**

**6ehb\_A 089 -KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 140**

**## PDB1: 2y0l\_A**

**## PDB2: 6ehd\_A**

**## row number: 96**

**2y0l\_A 000 IDNKSLNGMFTYSLGNHAFGAAWQRMNGDDAFPYLEGSNPYLVNFVQVNDFAGPKERSWQLRYDYDFVGLGIPGLTFMTRYVKGDNVELAGQSGEGREWE 100**

**6ehd\_A 000 VTNSYFEVTGEYTIGDALIGVTYYNAELDVEN------N-----------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT--GADEDGTL 077**

**2y0l\_A 101 RNTELQYVFQSGALKNLGIRWRNATFRSN 129**

**6ehd\_A 078 VYLGVEYKFA----SWARVYAEYGYGDGT 102**

**## PDB1: 2zfg\_A**

**## PDB2: 3syb\_A**

**## row number: 97**

**2zfg\_A 000 KKAEQWATGLKYDANNIYLAANYGETRNATPITNKF-------TN---TSGFANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGI-------- 078**

**3syb\_A 000 IDNDTWSLAFTLGHRAHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDIDGTHYDGDRNGAY 100**

**2zfg\_A 079 --------GDVDLVNYFEVGATYYFN----KNMSTYVDYIINQIDS 112**

**3syb\_A 101 GNYAEVRAQDGEKHHELGLMAAYKVQNGPIKDSTFKLTYMMHKASQ 146**

**## PDB1: 2zfg\_A**

**## PDB2: 3szv\_A**

**## row number: 98**

**2zfg\_A 000 NGDGVGGSISYEYEGFGIVGAYGAADRTNLQE-A---QP---L------GNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGFA 082**

**3szv\_A 000 DNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGA-------AND 093**

**2zfg\_A 083 NKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFN 135**

**3szv\_A 094 GKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNF------ANDLDENRLILSYSLA 144**

**## PDB1: 2zfg\_A**

**## PDB2: 3t24\_A**

**## row number: 99**

**2zfg\_A 000 NGDGVGGSISYEYEGFGIVGAYGAADRTNLQE----AQP--L-------GNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGFA 082**

**3t24\_A 000 DNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTT------SGE 094**

**2zfg\_A 083 NKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYF 134**

**3t24\_A 095 GKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTNY------TNDYDENRLIVSYTL 144**

**## PDB1: 2zfg\_A**

**## PDB2: 3t24\_A**

**## row number: 100**

**2zfg\_A 000 KKAEQWATGLKYDANNIYLAANYGETRNATPITNK-----F-T-N---TSGFANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNY 086**

**3t24\_A 000 VDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEWE 100**

**2zfg\_A 087 FEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 132**

**3t24\_A 101 RDMDIAYVFQSGPLKNLGVKWRNATMRTNYT-----NDYDENRLIVSYTL 145**

**## PDB1: 2zfg\_A**

**## PDB2: 4frt\_A**

**## row number: 101**

**2zfg\_A 000 KKAEQWATGLKYDANNIYLAANYGETRNATPITNKF-----TNT-----SGFANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNY 086**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEWE 100**

**2zfg\_A 087 FEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 132**

**4frt\_A 101 RDTDIAYLVQSGPLKNLGIKLRNGTFRSDFG-----NDIDETRLIVSYAL 145**

**## PDB1: 2zfg\_A**

**## PDB2: 4frt\_A**

**## row number: 102**

**2zfg\_A 000 NGDGVGGSISYEYEGFGIVGAYGAADRTNLQE-A---QP--L-------GNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGFA 082**

**4frt\_A 000 NNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD------GGGR 094**

**2zfg\_A 083 NKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFN 135**

**4frt\_A 095 GKEWERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF------GNDIDETRLIVSYALP 145**

**## PDB1: 2zfg\_A**

**## PDB2: 4frx\_A**

**## row number: 103**

**2zfg\_A 000 GKKAEQWATGLKYDANNIYLAANYGETRNATPITNK-------F-----TN---TSGFANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGD 081**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTA--RG 098**

**2zfg\_A 082 VDLVNYFEVGATYYFN----KNMSTYVDYIINQIDSDNK---LGVGSDDTVAVGIVYQF 133**

**4frx\_A 099 DQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**## PDB1: 2zfg\_A**

**## PDB2: 4fso\_A**

**## row number: 104**

**2zfg\_A 000 SNGDGVGGSISYEYEGFGIVGAYGAADRTNLQE-A---Q-----P----LGNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGF 082**

**4fso\_A 000 IDNRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLAN-------GD 093**

**2zfg\_A 083 ANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFN 136**

**4fso\_A 094 EGKEWERDIELKYIVQSGRFKDLSLRLRNATYRTDFE---RSARDVDEVRLIASYNLS 148**

**## PDB1: 2zfg\_A**

**## PDB2: 4fsp\_A**

**## row number: 105**

**2zfg\_A 000 KKAEQWATGLKYDA-NNIYLAANYGETRNATPITNK-----FTNT-----SGFANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVN 085**

**4fsp\_A 000 IDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG-ADGSREW 099**

**2zfg\_A 086 YFEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 132**

**4fsp\_A 100 ERDSDLRYVLQGGALKGLGLVWRNATYRSAFS-----RDIDENRLYLTYEL 145**

**## PDB1: 2zfg\_A**

**## PDB2: 4fsp\_A**

**## row number: 106**

**2zfg\_A 000 NGDGVGGSISYEY-EGFGIVGAYGAADRTNLQE-A---Q---PL------GNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGF 081**

**4fsp\_A 000 DNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG-------AD 093**

**2zfg\_A 082 ANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYF 134**

**4fsp\_A 094 GSREWERDSDLRYVLQGGALKGLGLVWRNATYRSAF------SRDIDENRLYLTYEL 144**

**## PDB1: 2zfg\_A**

**## PDB2: 4ft6\_A**

**## row number: 107**

**2zfg\_A 000 GKKAEQWATGLKYDANNIYLAANYGETRNATPITNK-----F--TN---TSGFANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVN 086**

**4ft6\_A 000 ELENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTK-AMDDGRAW 099**

**2zfg\_A 087 YFEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 133**

**4ft6\_A 100 ERDVDVAYVIQSGPLKNLGLRWRNAMLRSNHA-----ADVDENRLILSYSL 145**

**## PDB1: 2zfg\_A**

**## PDB2: 4ft6\_A**

**## row number: 108**

**2zfg\_A 000 SNGDGVGGSISYEYEGFGIVGAYGAADRTNLQEA-----QP--------LGNGKKAEQWATGLKYDAN-----NIYLAANYGETRNATPITNKFTNTSGF 082**

**4ft6\_A 000 LENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA-------MD 093**

**2zfg\_A 083 ANKTQDVLLVAQYQFD----FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFN 136**

**4ft6\_A 094 DGRAWERDVDVAYVIQSGPLKNLGLRWRNAMLRSNH------AADVDENRLILSYSLP 145**

**## PDB1: 2zfg\_A**

**## PDB2: 5dl6\_A**

**## row number: 109**

**2zfg\_A 000 KKAEQWATGLKYDANNIYLAANYGETRNATPITNKF-T------N---TSGFANKTQDVLLVAQYQFD---FGLRPSIAYTKSKAKDVEG-IGDVDLVNY 086**

**5dl6\_A 000 VDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERE 100**

**2zfg\_A 087 FEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 132**

**5dl6\_A 101 TDFDLGYTVQSGWLKNLGLRARYAIYDNNMLSTANIKPVNETRINIDYTW 150**

**## PDB1: 2zfg\_A**

**## PDB2: 5dl7\_A**

**## row number: 110**

**2zfg\_A 000 GKKAEQWATGLKYDANNIYLAANYGETRNATPITNKF-------TNT---SGFANKTQDVLLVAQYQFD---------FGLRPSIAYTKSKAKDVEG-IG 080**

**5dl7\_A 000 EVDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGD 100**

**2zfg\_A 081 DVDLVNYFEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 133**

**5dl7\_A 101 QRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTNMTFHSANETRLNVDYTF 157**

**## PDB1: 2zfg\_A**

**## PDB2: 5dl8\_B**

**## row number: 111**

**2zfg\_A 000 KKAEQWATGLKYDANNIYLAANYGETRNATPITNK-------FTNT----SGFANKTQDVLLVAQYQFD---FGLRPSIAYTKSKAKDVEGIGDVDLVNY 086**

**5dl8\_B 000 IDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAA-NGEKNHETE 099**

**2zfg\_A 087 FEVGATYYFN----KNMSTYVDYIINQIDSDNKLGVGSDDTVAVGIVYQF 132**

**5dl8\_B 100 SNVILNYAFQQPLLKGFALQYIRIDYNVKH-----GNDFGEDRLFVNYTK 144**

**## PDB1: 2zfg\_A**

**## PDB2: 5ldv\_A**

**## row number: 112**

**2zfg\_A 000 DGNKVDLYGKA-VGLHYFSKGNGENS---YGGNGDMTYARLGFKGETQINSDLTGYGQWEYNFQGNNSE---GADAQTGNKTRLAFAGLKYA-DVGSFDY 092**

**5ldv\_A 000 AIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIA 100**

**2zfg\_A 093 GRNYGVVYDALG-YT-DMLPEFGGDTA-YSD-----DFF--VGRVGGVAT----------------YRNSNFFGLVDGLNFAVQYLGK--NERDT----- 159**

**5ldv\_A 101 GKQQLNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIG--NLYGAAAVGSYDLAGGQFNPQLWL 198**

**2zfg\_A 160 -ARRSNGDGVGGSISYEYE-----GFGIVGAYGAADRTNLQEAQPLGNGKKAEQWATGLKYDANNIYLAANYGETRNA-----------TPI--TNKFT- 239**

**5ldv\_A 199 AYWDQVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDD--KKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGSLLAGEE 296**

**2zfg\_A 240 ----N---TSGFANKTQDVLLVAQYQFDFGLRPSIAYTKSKAKDVEG-IGDVDLVNYFEVGATYYFNKNMSTYVDYIINQIDSDNK-LGVGSDDTVAVGI 330**

**5ldv\_A 297 IFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQA 396**

**2zfg\_A 331 VYQF 334**

**5ldv\_A 397 LYKF 400**

**## PDB1: 3a2s\_X**

**## PDB2: 5ldv\_A**

**## row number: 113**

**3a2s\_X 000 GRDLQVTLYGTIKAGVEVSRVKDAGTYKAQGGKSKTATQIADFGSKIGFKGQEDLGNGMKAIWQLEQKASIAG--------TNSGWGNRQSFIGLKG--G 090**

**5ldv\_A 000 EAIKDVDVSGVLRYRYDTGNFDKNFL----N-NSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDV 095**

**3a2s\_X 091 FGTVRAGNLNTV 102**

**5ldv\_A 096 ATSVIAGKQQLN 107**

**## PDB1: 3a2s\_X**

**## PDB2: 5ldv\_A**

**## row number: 114**

**3a2s\_X 000 VKDYQVHRVVAGYDANDLYVSVAGQYEAAKNNE--------V-G-S----I------------KGKKHEQTQVAATAAYRFG-NVTPRVSYAHGFKAKVN 073**

**5ldv\_A 000 YANGNLFALKGSIEVNGW--DASLGGLYYGDKEKASTVVIEDQGNLGSLLAGEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEA 098**

**3a2s\_X 074 GVKDANYQYDQVIVGADYDFSKRTSALVSAGWLKQGKGAG---KVEQTASMVGLRHKF 128**

**5ldv\_A 099 TTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVRLQALYKF 156**

**## PDB1: 3jty\_A**

**## PDB2: 6ehb\_A**

**## row number: 115**

**3jty\_A 000 SDRFNFQGAEYAFNDKRTQIALWNAQLKDIYSQQFINLIHSQPLGDWTLGANLGFFYGKEDGSARAGDMENRTWSGLFSAKYGGNTFYVGLQKLTGDSAW 100**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME----NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETA--- 087**

**3jty\_A 101 MRVNGTSGGTLANDSYNASYDNAKEKSWQVRHDYNFAALGVPGLTLMNRYISGSNV 156**

**6ehb\_A 088 --------------------KKTSADNFAIDATYYFK----PNFRSYISYQFNLLD 119**

**## PDB1: 3jty\_A**

**## PDB2: 6ehd\_A**

**## row number: 116**

**3jty\_A 000 DMENRTWSGLFSAKYGGNTFYVGLQKLTGDSAWMRVNGTSGGTLANDSYNASYDNAKEKSWQVRHDYNFAALGVPGLTLMNRYISGSNVHTATVSDGKEW 100**

**6ehd\_A 000 DVTNSYFEVTGEYTIGDALIGVTYYNAELDVEN-------N-----------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT-GADEDGT 077**

**3jty\_A 101 GRESEVAYTVQSGTLKNLNLKWRNSTMRRDF 131**

**6ehd\_A 078 LVYLGVEYKF----ASWARVYAEYGYGDGTT 104**

**## PDB1: 3nsg\_A**

**## PDB2: 3syb\_A**

**## row number: 117**

**3nsg\_A 000 NGDGVGYTMAYEF-DGFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDAN------NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQY 093**

**3syb\_A 000 GDRLNYLGGNYKPLDGLEISLYGSHFQDV------------WNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAR-------EAGYIDNDTWSLAFTL 081**

**3nsg\_A 094 QFDFGLRPAISYVQSKGKQLNG------A---------GGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLD 150**

**3syb\_A 082 GHR-AHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDI 156**

**## PDB1: 3nsg\_A**

**## PDB2: 3sys\_A**

**## row number: 118**

**3nsg\_A 000 GVGYTMAYEF--D--GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT----V---T----DTVEMANKTQNLE 085**

**3sys\_A 000 QSYANLLHKQRVGDWTLGANLGLFVDRDDGAAR---AGEIDSHTVYGLFSAGIGLHTFYLGLQKVGGDSGWQSVYGSSGRSMGNDMFNGNFTNADERSWQ 097**

**3nsg\_A 086 VVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDE 148**

**3sys\_A 098 VRYDYDFVGLGWPGLIGMVRYGHGSNATTKA--GSGGKEWERDVELGYTVQSGPLARLNVRLNHASNRRSF 166**

**## PDB1: 3nsg\_A**

**## PDB2: 3sys\_A**

**## row number: 119**

**3nsg\_A 000 NKLDLYGKAVGRHVWTTTGDS----KNADQTYAQIGFKGETQINTDLTGFGQWEYRT----KADR-----AE--------GEQQNSNL-VRLAFAGLKYA 078**

**3sys\_A 000 EDAKTDLVLRNYYFNRDFRDHDAGKSLVDEWAQGFILKFSSGYTPG-TVGVGLDAIGLFGVKLNSGRGTSNSELLPLHDDGRAADNYGRVGVA-AKLRV- 097**

**3nsg\_A 079 EVGSIDYGRNYGIVYDVESYTDM--APY-FSGETWGGAYTDNYMTSRAGGLLTYRNSDFFGLVDGLSFGIQYQGKNQDNHSI-----------NSQNGDG 164**

**3sys\_A 098 SASELKIGEMLPDIPLLR-YDDGRLLPQTFRGF-----------------AVVSRE--L----PGLALQAGRFDAVSLRNSADMQDLSAWSAPTQKSDGF 173**

**3nsg\_A 165 VGYTMAYEFD--GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDA--N--NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQYQFDFG 258**

**3sys\_A 174 NYAGAEYRFNRERTQLGLWHGQLED------------VYRQSYANLLHKQRVGDWTLGANLGLFVDRDDGAAR-------AGEIDSHTVYGLFSAGIG-L 253**

**3nsg\_A 259 LRPAISYVQSKGKQLNG--------A--------GGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQ 332**

**3sys\_A 254 HTFYLGLQKVGGDSGWQSVYGSSGRSMGNDMFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNATTKA--GSGGKEWERDVELGYT 345**

**## PDB1: 3nsg\_A**

**## PDB2: 3szv\_A**

**## row number: 120**

**3nsg\_A 000 GDGVGYTMAYEFD-GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQYQF 094**

**3szv\_A 000 DAFDFAGGDYRLTPALTASLHQGRLKD------------IYRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGF---------RELDNRAFGALFSLRL 079**

**3nsg\_A 095 DFGLRPAISYVQSKGKQL-------NG--------AGGSADLAKYIQAGATYYFNK----NMNVWVDYRFNLLD 149**

**3szv\_A 080 G-AHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNV 152**

**## PDB1: 3nsg\_A**

**## PDB2: 3szv\_A**

**## row number: 121**

**3nsg\_A 000 GVGYTMAYEFD-----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENTV------TD----TVEMANKTQNLE 085**

**3szv\_A 000 QTFAGLVHTLDLGGQRSLKSDLRFARASEDGG-----FRELDNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQ 095**

**3nsg\_A 086 VVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 170**

**3szv\_A 096 LRYDYDFGALGLPGLSFMSRYVSGDNVARGA--ANDGKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNFA-------NDLDENRLILSYSL 179**

**## PDB1: 3nsg\_A**

**## PDB2: 3szv\_A**

**## row number: 122**

**3nsg\_A 000 NGDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQD--------RD------GNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMA 081**

**3szv\_A 000 DNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGA-------AND 093**

**3nsg\_A 082 NKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN 135**

**3szv\_A 094 GKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNF-------ANDLDENRLILSYSLA 144**

**## PDB1: 3nsg\_A**

**## PDB2: 3t0s\_A**

**## row number: 123**

**3nsg\_A 000 DGVGYTMAYEFD-----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVEN----TVT---D----TVEMANKTQN 084**

**3t0s\_A 000 RQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAAI---SGPVDNRNLNAMLTLRAGAHAFGIGVQKMIGNDAFPVLNGYTTPYVANLMAYQTFTRPQEKS 097**

**3nsg\_A 085 LEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLD 148**

**3t0s\_A 098 WQLRYDYDFAGLGLPGLNLMTRYVQGRDIDRGA-GRADDSEWERNTDLSYVIQSGPLKSVALKWRNITYRSR 168**

**## PDB1: 3nsg\_A**

**## PDB2: 3t24\_A**

**## row number: 124**

**3nsg\_A 000 GVGYTMAYEFD-----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT----V--TD----TVEMANKTQNLE 085**

**3t24\_A 000 QHYLGLVHTLPIADKQSLKSDIRWARSTDDGS------SNVDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQ 094**

**3nsg\_A 086 VVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 170**

**3t24\_A 095 ARYDYNFAGVGIPGLTFMTRYVKGDNIDLLT-TSGEGKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTNYT-------NDYDENRLIVSYTL 179**

**## PDB1: 3nsg\_A**

**## PDB2: 3t24\_A**

**## row number: 125**

**3nsg\_A 000 NGDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQ------D--R------DGNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMA 081**

**3t24\_A 000 DNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLT------TSGE 094**

**3nsg\_A 082 NKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYF 134**

**3t24\_A 095 GKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTNY-------TNDYDENRLIVSYTL 144**

**## PDB1: 3nsg\_A**

**## PDB2: 4frt\_A**

**## row number: 126**

**3nsg\_A 000 NGDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQD--------RD------GNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMA 081**

**4frt\_A 000 NNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD------GGGR 094**

**3nsg\_A 082 NKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN 135**

**4frt\_A 095 GKEWERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF-------GNDIDETRLIVSYALP 145**

**## PDB1: 3nsg\_A**

**## PDB2: 4frt\_A**

**## row number: 127**

**3nsg\_A 000 GVGYTMAYEFD-----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT-V-----TD----TVEMANKTQNLE 085**

**4frt\_A 000 QHHLGVQHLLPLADDQSLKSDIRWARSTDEGG------SRVNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQ 094**

**3nsg\_A 086 VVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 170**

**4frt\_A 095 LRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD-GGGRGKEWERDTDIAYLVQSGPLKNLGIKLRNGTFRSDFG-------NDIDETRLIVSYAL 179**

**## PDB1: 3nsg\_A**

**## PDB2: 4frx\_A**

**## row number: 128**

**3nsg\_A 000 GDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT-------V----TD----TVEMANKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGG 081**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTA---R 097**

**3nsg\_A 082 SADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYS-SSYVGTDDQAAVGITYQF 136**

**4frx\_A 098 GDQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**## PDB1: 3nsg\_A**

**## PDB2: 4fso\_A**

**## row number: 129**

**3nsg\_A 000 NGDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQD---------R-----DGNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMA 081**

**4fso\_A 000 DNRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLAN-------GDE 093**

**3nsg\_A 082 NKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN 135**

**4fso\_A 094 GKEWERDIELKYIVQSGRFKDLSLRLRNATYRTDFER----SARDVDEVRLIASYNLS 147**

**## PDB1: 3nsg\_A**

**## PDB2: 4fsp\_A**

**## row number: 130**

**3nsg\_A 000 NGDGVGYTMAYEF-DGFGVTAAYSNSKRTNDQQ------D--R-D-----GNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEM 080**

**4fsp\_A 000 DNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG-------AD 093**

**3nsg\_A 081 ANKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYF 134**

**4fsp\_A 094 GSREWERDSDLRYVLQGGALKGLGLVWRNATYRSAF-------SRDIDENRLYLTYEL 144**

**## PDB1: 3nsg\_A**

**## PDB2: 4fsp\_A**

**## row number: 131**

**3nsg\_A 000 GVGYTMAYEFD----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDA-NNVYLAAVYAETRNMSIVENT----V--TD----TVEMANKTQNLE 085**

**4fsp\_A 000 QHFLGLKGRIGIAADSLESDLRLALSRDTGGAR---GGRIDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQ 097**

**3nsg\_A 086 VVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 170**

**4fsp\_A 098 LRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG--ADGSREWERDSDLRYVLQGGALKGLGLVWRNATYRSAFS-------RDIDENRLYLTYEL 181**

**## PDB1: 3nsg\_A**

**## PDB2: 4ft6\_A**

**## row number: 132**

**3nsg\_A 000 NGDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQ-------D-------RDGNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMA 081**

**4ft6\_A 000 ENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA-------MDD 093**

**3nsg\_A 082 NKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYF 134**

**4ft6\_A 094 GRAWERDVDVAYVIQSGPLKNLGLRWRNAMLRSNH-------AADVDENRLILSYSL 143**

**## PDB1: 3nsg\_A**

**## PDB2: 4ft6\_A**

**## row number: 133**

**3nsg\_A 000 GDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT-----V--T---DTVEMANKTQNLEVVAQYQFD----FGLRPAISYVQSKGKQLNGAGGSADLA 086**

**4ft6\_A 000 ELENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA--MDDGRA 098**

**3nsg\_A 087 KYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 136**

**4ft6\_A 099 WERDVDVAYVIQSGPLKNLGLRWRNAMLRSNHA-------ADVDENRLILSYSL 145**

**## PDB1: 3nsg\_A**

**## PDB2: 5dl6\_A**

**## row number: 134**

**3nsg\_A 000 NGDGVGYTMAYEF-DGFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDA--N---NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQYQ 094**

**5dl6\_A 000 TDGLYYLGGNYQFNPALKLTAFYMDVDDL------------YNQTMVGALHQYKINDTTNFSSQLRYYRSRDDGQAK-------AGLVDNDLYHAHFELK 081**

**3nsg\_A 095 FDFGLRPAISYVQSKGKQLNG-----A----------GGSADLAKYIQAGATYYFN---KNMNVWVDYRFNLLD 150**

**5dl6\_A 082 HQ-NHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNI 154**

**## PDB1: 3nsg\_A**

**## PDB2: 5dl7\_A**

**## row number: 135**

**3nsg\_A 000 DGVGYTMAYEFD-----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT----V---TDT---VEMANKTQNL 085**

**5dl7\_A 000 QQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKK---IGEVDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVY 097**

**3nsg\_A 086 EVVAQYQFD---------FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 171**

**5dl7\_A 098 SIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGDQRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTN--MTFHSANETRLNVDYTF 194**

**## PDB1: 3nsg\_A**

**## PDB2: 5dl7\_A**

**## row number: 136**

**3nsg\_A 000 GDGVGYTMAYEFDGFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDAN-----NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQYQFD 095**

**5dl7\_A 000 DSFYTLGGSYQLKDYRLRAYHAELKD------------IYQQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKK-------IGEVDNRHISGLFGLNYQ 081**

**3nsg\_A 096 FGLRPAISYVQSKGKQLNG---------------AGGSADLAKYIQAGATYYFNK---------NMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQ 171**

**5dl7\_A 082 -NHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGDQRFKEDSLEFDLGYK 180**

**3nsg\_A 172 F 172**

**5dl7\_A 181 I 181**

**## PDB1: 3nsg\_A**

**## PDB2: 5dl8\_B**

**## row number: 137**

**3nsg\_A 000 YTMAYEF--D--GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMSIVENT----V----TD---TVEMANKTQNLEVVA 085**

**5dl8\_B 000 VGLEHTWKQPTFALTSKFKYFNAKDDGNT-----FDIDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMY 095**

**3nsg\_A 086 QYQFD---FGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFN----KNMNVWVDYRFNLLDENDYSSSYVGTDDQAAVGITYQF 167**

**5dl8\_B 096 GYDFKDYIPGLNAMVKYVYGHDFKAAN--GEKNHETESNVILNYAFQQPLLKGFALQYIRIDYNVKHG-------NDFGEDRLFVNYTK 175**

**## PDB1: 3nsg\_A**

**## PDB2: 5ldv\_A**

**## row number: 138**

**3nsg\_A 000 GNKLDLYGKAVGRHVWTTTGDS--------KNADQTYAQIGFKGETQINTDLTGFGQWEYRTKADRAE----GEQQNSNLVRLAFAGLKYA-EVGSIDYG 087**

**5ldv\_A 000 IKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIAG 100**

**3nsg\_A 088 RNYGIVYDVESYTDMAPYFSGETWGGAYTDNYMTSRAGGLLTYRNSDFFGLVDGLSFGIQYQGKNQDNH---------------------SINSQNGDGV 166**

**5ldv\_A 101 KQQLNIIWTDNGVDG-LVGTGV-----------------KVVNNS--I----DGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIGNLY 176**

**3nsg\_A 167 GYTMAYEFD----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDA--N---NVYLAAVYAETRNMSIVENTVTDTVEMANKTQNLEVVAQYQFD 257**

**5ldv\_A 177 GAAAVGSYDLAGGQFNPQLWLAYWD------------QVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDD-----KKTYANGNLFALKGSIEVN 259**

**3nsg\_A 258 FGLRPAISYVQSKGKQLN---------G-----A------------GGSADLAKYIQAGATYYFNKNMNVWVD--YRFNLL 310**

**5ldv\_A 260 -GWDASLGGLYYGDKEKASTVVIEDQGNLGSLLAGEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKT 339**

**## PDB1: 3nsg\_A**

**## PDB2: 5ldv\_A**

**## row number: 139**

**3nsg\_A 000 NKDGNKLDLYGKAVGRHVWTTTGDSK--------NADQTYAQIGFKGETQINTDLTGFGQWEYRTKADRAE----GEQQNSNLVRLAFAGLKY--AEVGS 086**

**5ldv\_A 000 EEAIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVAT-S 099**

**3nsg\_A 087 IDYGRNYGIVYDVESYTDMAPYFSGET-----WGGA-----YTDNYMTSRAGG-------------------LLTYRNSDFFGLVDGLSFGIQYQGKN-- 155**

**5ldv\_A 100 VIAGKQQLNIIWTDNGVDG-LVGTGVKVVNNSIDGLTLAAFAVDSF-MAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIGNL------YGAAAVGSYDLAG 191**

**3nsg\_A 156 QDNHS-----INSQNGDGVGYTMAYEFD-----GFGVTAAYSNSKRTNDQQDRDGNGDRAESRAVGAKYDANNVYLAAVYAETRNMS--------IVENT 237**

**5ldv\_A 192 GQFNPQLWLAYWDQVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDD-KKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNL 290**

**3nsg\_A 238 ----V------TD---TVEMANKTQNLEVVAQYQFDFGLRPAISYVQSKGKQLNGAGGSADLAKYIQAGATYYFNKNMNVWVDYRFNLLDENDYSSSYVG 324**

**5ldv\_A 291 GSLLAGEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNT-NESA 389**

**3nsg\_A 325 TDDQAAVGITYQF 337**

**5ldv\_A 390 DHSTVRLQALYKF 402**

**## PDB1: 3sy7\_A**

**## PDB2: 5fvn\_A**

**## row number: 140**

**3sy7\_A 000 KSADFIGGRYAITDNLSASLYGAELEDI-------------YRQYYLNSNYTIPLASDQSLGFDFNIYRTNDEGKA--KAGDISNTTWSLAAAYTLD-AH 084**

**5fvn\_A 000 GDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN-----NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFGL 095**

**3sy7\_A 085 TFTLAYQKVHGDQPFDYIGFGRNGSGAGGDSIFLANSVQYSDFNGPGEKSWQARYDLNLASYGVPGLTFMVRYINGKDID 164**

**5fvn\_A 096 RPSVAYLQSKGKDLE-------------NG-----Y------GDQDLLKYVDVGATYYFN----KNMSTYVDYKINLLDD 147**

**## PDB1: 3sy7\_A**

**## PDB2: 6ehb\_A**

**## row number: 141**

**3sy7\_A 000 AKSADFIGGRYAITD-NLSASLYGAELEDIYRQYYLNSNYTIPLASDQSLGFDFNIYRTNDEGKAKAGDISNTTWSLAAAYTLDAHTFTLAYQKVHGDQP 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETA-- 087**

**3sy7\_A 100 FDYIGFGRNGSGAGGDSIFLANSVQYSDFNGPGEKSWQARYDLNLASYGVPGLTFMVRYINGKDID 165**

**6ehb\_A 088 -----------------------------KKTSADNFAIDATYYFK----PNFRSYISYQFNLLDS 120**

**## PDB1: 3sy9\_A**

**## PDB2: 6ehb\_A**

**## row number: 142**

**3sy9\_A 000 SHHLSWLGGTWGGIE-GFTSSLYAAELQNVWKQYYADVDYTYEIDDNWSLNPGAHYYKTVDSGDSLLGRIDNNTYSLHFAVGYRQHTVTAVLQKVNGNTP 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETA-- 087**

**3sy9\_A 100 FDYINQGDSIFLDNSQQYSDFNGPNEKSWKLQYDYDFVALGVPGLSASASYSRGKL 155**

**6ehb\_A 088 ---------------------KKTSADNFAIDATYYFK----PNFRSYISYQFNLL 118**

**## PDB1: 3syb\_A**

**## PDB2: 4d65\_A**

**## row number: 143**

**3syb\_A 000 RLNYLGGNYKPLDGLEISLYGSHFQD--------------VWNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAR-----EAGYIDNDTWSLAFTLGH 081**

**4d65\_A 000 DGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD------ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYSF 094**

**3syb\_A 082 R-AHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGW 152**

**4d65\_A 095 DFGLTPSIGYNQSKGKNLGN----------------YGNKDLVKYIAVGASYDFN----KNMAAVIDYKINL 146**

**## PDB1: 3syb\_A**

**## PDB2: 5fvn\_A**

**## row number: 144**

**3syb\_A 000 DRLNYLGGNYKPLDGLEISLYGSHFQDV-------------WNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAR--EAGYIDNDTWSLAFTLGHR-A 084**

**5fvn\_A 000 GDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN------NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFG 094**

**3syb\_A 085 HALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDI 155**

**5fvn\_A 095 LRPSVAYLQSKGKDLE------NG---------YGDQDLLKYVDVGATYYFN----KNMSTYVDYKINLLD 146**

**## PDB1: 3syb\_A**

**## PDB2: 5nxr\_A**

**## row number: 145**

**3syb\_A 000 DRLNYLGGNYKPLDGLEISLYGSHFQDV----------------------WNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAR---EAGYIDNDTWS 075**

**5nxr\_A 000 GDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDAN------NVYLAAMYGQTQNTSRYGDLDLIANKTENVE 094**

**3syb\_A 076 LAFTLGHR-AHALTLAYQQVDGNEYFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDI 155**

**5nxr\_A 095 LVAQYLFDFGLKPSIGYNQSKGKNLGN------G---------YDNQDLVKYISVGSYYYFN----KNMSAVVDYKINLLK 156**

**## PDB1: 3syb\_A**

**## PDB2: 6ehb\_A**

**## row number: 146**

**3syb\_A 000 GDRLNYLGGNYKPLD-GLEISLYGSHFQDVWNQYYLGVTHDIGDLENGIALRTAFNGYHTGDTGAREAGYIDNDTWSLAFTLGHRAHALTLAYQQVDGNE 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME------NLYFAGLFTDGELA-----KDVDYTGYELAAGYKLGQAAFTATYNNAETA- 087**

**3syb\_A 100 YFDYVHETSAIFLANSMLADYNSPNEKSAQIRYETDWSYYGVPGLSTGVWYVKGWDI 156**

**6ehb\_A 088 ---------------------KKTSADNFAIDATYYFK----PNFRSYISYQFNLLD 119**

**## PDB1: 3sys\_A**

**## PDB2: 6ehb\_A**

**## row number: 147**

**3sys\_A 000 EDAKTDLVLRNYYFNRDFRDHDAGKSLVDEWAQGFILKFSSGYTPG-TVGVGLDAIGLFGVKLNSGRGTSNSELLPLHDDGRAADNYGRVGVA-AKLRVS 098**

**6ehb\_A 000 TSLEVGGRAEARLSLKDGKA-------QDNSRVRLNFLGKAEINDSLYGVGFYEGEF----TTNDQG----K--------NASNNSLD-NRYTYAGIGGT 076**

**3sys\_A 099 ASELKIGEMLPDIPLLR-YDDGRL-----------L-PQTFRGFAVVSRELPGLALQAGRFDAVSLRNSADMQDLSA--WSAPTQKSDGFNYAGAEYRFN 183**

**6ehb\_A 077 YGEVTYGKNDGALGVITDFTDIMSYHGNTAAEKIAVADRVDNMLAYKG-QFGDLGVKASYRFADRNAVDAMGNVVTETNAAKYSDNGEDGYSLSAIYTFG 175**

**3sys\_A 184 RERTQLGLWHGQLEDVYRQSYANLLHKQRVGDWTLGANLGLFVDRDDGAARAGEIDSHTVYGLFSAGIGLHTFYLGLQKVGGDSGWQSVYGSSGRSMGND 283**

**6ehb\_A 176 DTGFNVGAGYADQD-DQNEYMLAASYRM--E--NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETAK---------------- 249**

**3sys\_A 284 MFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNATTKAGSGGKEWERDVELGYT 345**

**6ehb\_A 250 -------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYD 300**

**## PDB1: 3sys\_A**

**## PDB2: 6ehb\_A**

**## row number: 148**

**3sys\_A 000 SDGFNYAGAEYRFNRERTQLGLWHGQLEDVYRQSYANLLHKQRVGDWTLGANLGLFVDRDDGAARAGEIDSHTVYGLFSAGIGLHTFYLGLQKVGGDSGW 100**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRM--EN--LYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETA--- 087**

**3sys\_A 101 QSVYGSSGRSMGNDMFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNAT 157**

**6ehb\_A 088 --------------------KKTSADNFAIDATYYFK----PNFRSYISYQFNLLDS 120**

**## PDB1: 3sys\_A**

**## PDB2: 6ehd\_A**

**## row number: 149**

**3sys\_A 000 DSHTVYGLFSAGIGLHTFYLGLQKVGGDSGWQSVYGSSGRSMGNDMFNGNFTNADERSWQVRYDYDFVGLGWPGLIGMVRYGHGSNATTKAGSGGKEWER 100**

**6ehd\_A 000 TNSYFEVTGEYTIGDALIGVTYYNAELDVEN------------N------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT-GADEDGTLV 077**

**3sys\_A 101 DVELGYTVQSGPLARLNVRLNHASNRRS 128**

**6ehd\_A 078 YLGVEYKFA----SWARVYAEYGYGDGT 101**

**## PDB1: 3szd\_A**

**## PDB2: 6ehb\_A**

**## row number: 150**

**3szd\_A 000 SDRFDFAGGEYRFNG-ERSLLGLWNAELKDIYRQQYLQLQHSQPLGDWLLGANLGGFRGRDAGSARAGKLDNRTVSALFSARYGLHTLYLGLQKVSGDDG 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGF-NVGAGYADQDD-QNEYMLAASYRME----NLYFAGLFTDGELA-----KDVDYTGYELAAGYKLGQAAFTATYNNAETAK- 088**

**3szd\_A 100 WMRVNGTSGGTLANDSYNASYDNPGERSWQLRYDFDFVGLGLPGLTFMTRYLHGDHV 156**

**6ehb\_A 089 ----------------------KTSADNFAIDATYYFK----PNFRSYISYQFNLLD 119**

**## PDB1: 3szv\_A**

**## PDB2: 4d65\_A**

**## row number: 151**

**3szv\_A 000 DAFDFAGGDYRLTPALTASLHQGRLKD--------------IYRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGF-------RELDNRAFGALFSLRL 079**

**4d65\_A 000 GDGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD-----ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYSF 095**

**3szv\_A 080 G-AHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNV 152**

**4d65\_A 096 DFGLTPSIGYNQSKGKNL-------G---------NYGNKDLVKYIAVGASYDFNK----NMAAVIDYKINLLK 149**

**## PDB1: 3szv\_A**

**## PDB2: 4rjw\_A**

**## row number: 152**

**3szv\_A 000 DNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGA-------------------LGLPGLSFMSRYV 081**

**4rjw\_A 000 DDSVWGLEGAWAMGPFSAQAEYLARKLKADDN---A-------------YKDIKAKGYYAQLAYTLTGESRQYKLEGAKFDSVKPENKEIGAWEVFYRYD 084**

**3szv\_A 082 SGDNVARGA--------ANDGKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNFA------NDLDENRLILSYSL 143**

**4rjw\_A 085 NIKVEDDNVVADTATREVGDTKAKAHNLGVNWYV----NDAVKISAAYVKAKTDKITNNNGDDDGDGFVTRLQYVF 156**

**## PDB1: 3szv\_A**

**## PDB2: 5fvn\_A**

**## row number: 153**

**3szv\_A 000 SDAFDFAGGDYRLTPALTASLHQGRLKDI-------------YRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGF----RELDNRAFGALFSLRLG-A 082**

**5fvn\_A 000 NGDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN-----NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFG 095**

**3szv\_A 083 HAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVA 154**

**5fvn\_A 096 LRPSVAYLQSKGKDLE----N--G---Y------GDQDLLKYVDVGATYYFN----KNMSTYVDYKINLLDD 148**

**## PDB1: 3szv\_A**

**## PDB2: 5nxr\_A**

**## row number: 154**

**3szv\_A 000 LDNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGA--ANDGKEW 098**

**5nxr\_A 000 KRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG----D-----L-----DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVK 082**

**3szv\_A 099 ERNTDLGYVVQSGPLKNLGVKWRNATVRSNF--------ANDLDENRLILSYSL 144**

**5nxr\_A 083 YISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 132**

**## PDB1: 3szv\_A**

**## PDB2: 5nxr\_A**

**## row number: 155**

**3szv\_A 000 AFDFAGGDYRLTPALTASLHQGRLKD----------------------IYRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGF-----RELDNRAFGAL 073**

**5nxr\_A 000 DGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANKTENVELV 095**

**3szv\_A 074 FSLRLG-AHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNV 151**

**5nxr\_A 096 AQYLFDFGLKPSIGYNQSKGKNL-------GN--------GYDNQDLVKYISVGSYYYFNK----NMSAVVDYKINLLK 155**

**## PDB1: 3szv\_A**

**## PDB2: 6ehb\_A**

**## row number: 156**

**3szv\_A 000 DNRAFGALFSLRLG--AHAVAAGYQRISGDDPYP----YIAGSDPYLVNF-IQIGDF-GNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGAAN 092**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEYMLAASYRME--NLYFAGLFTDGELAKDVDYTGYELAAGYKLG----Q-AAFTATYNNAETAK----- 088**

**3szv\_A 093 DGKEWERNTDLGYVVQSGPLKNLGVKWRNATVRSNF-----ANDLDENRLILSYSL 143**

**6ehb\_A 089 KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 140**

**## PDB1: 3szv\_A**

**## PDB2: 6ehb\_A**

**## row number: 157**

**3szv\_A 000 SDAFDFAGGDYRLTP-ALTASLHQGRLKDIYRQTFAGLVHTLDLGGQRSLKSDLRFARASEDGGFRELDNRAFGALFSLRLGAHAVAAGYQRISGDDPYP 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK---DVDYTGYELAAGYKLGQAAFTATYNNAETAK--- 088**

**3szv\_A 100 YIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVA 154**

**6ehb\_A 089 -------------------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDS 120**

**## PDB1: 3szv\_A**

**## PDB2: 6ehd\_A**

**## row number: 158**

**3szv\_A 000 LDNRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGAANDGKEWER 100**

**6ehd\_A 000 VTNSYFEVTGEYTIGDALIGVTYYNAELDVEN-------N----------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT-GADEDGTLV 078**

**3szv\_A 101 NTDLGYVVQSGPLKNLGVKWRNATVRSN 128**

**6ehd\_A 079 YLGVEYKFA----SWARVYAEYGYGDGT 102**

**## PDB1: 3szv\_A**

**## PDB2: 6ehd\_A**

**## row number: 159**

**3szv\_A 000 NRAFGALFSLRLGAHAVAAGYQRISGDDPYPYIAGSDPYLVNFIQIGDFGNVDERSWQLRYDYDFGALGLPGLSFMSRYVSGDNVARGAANDGKEWERNT 100**

**6ehd\_A 000 QELAELYVGATFGDLAVHAGGGQNRDKAF-KVGS-NTVGTTTT-D--IKADVTNSYFEVTGEYTIG-----DALIGVTYYNAELDVENNPLVIDEDAISV 090**

**3szv\_A 101 DLGYVVQSGPLKNLGVKWRNATVRSNF----ANDLDENRLILSYSL 142**

**6ehd\_A 091 AGTYKVA----DKTKLYAGYEYVMQEANTGADEDGTLVYLGVEYKF 132**

**## PDB1: 3t0s\_A**

**## PDB2: 4d65\_A**

**## row number: 160**

**3t0s\_A 000 DEFNLAGATYAFTPRLSASYYYGQLKD--------------IYRQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAAI-----SGPVDNRNLNAMLTLRA 081**

**4d65\_A 000 GDGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD-----ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYSF 095**

**3t0s\_A 082 G-AHAFGIGVQKMIGNDAFPVLNGYTTPYVANLMAYQTFTRPQEKSWQLRYDYDFAGLGLPGLNLMTRYVQGRDI 155**

**4d65\_A 096 DFGLTPSIGYNQSKGKNLG------N-----Y------GNKDLVKYIAVGASYDFN----KNMAAVIDYKINLLK 149**

**## PDB1: 3t0s\_A**

**## PDB2: 5fvn\_A**

**## row number: 161**

**3t0s\_A 000 DEFNLAGATYAFTPRLSASYYYGQLKDI-------------YRQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAA--ISGPVDNRNLNAMLTLRAG-AH 084**

**5fvn\_A 000 GDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN-----NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFGL 095**

**3t0s\_A 085 AFGIGVQKMIGNDAFPVLNGYTTPYVANLMAYQTFTRPQEKSWQLRYDYDFAGLGLPGLNLMTRYVQGRDI 155**

**5fvn\_A 096 RPSVAYLQSKGKDLE------NG----------YGDQDLLKYVDVGATYYFN----KNMSTYVDYKINLLD 146**

**## PDB1: 3t0s\_A**

**## PDB2: 6ehb\_A**

**## row number: 162**

**3t0s\_A 000 SDEFNLAGATYAFTP-RLSASYYYGQLKDIYRQHYLGLLHTLPLGEGLSLRSDLRYFDSGEDGAAISGPVDNRNLNAMLTLRAGAHAFGIGVQKMIGNDA 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETA-- 087**

**3t0s\_A 100 FPVLNGYTTPYVANLMAYQTFTRPQEKSWQLRYDYDFAGLGLPGLNLMTRYVQGRDI 156**

**6ehb\_A 088 ---------------------KKTSADNFAIDATYYFK----PNFRSYISYQFNLLD 119**

**## PDB1: 3t24\_A**

**## PDB2: 4d65\_A**

**## row number: 163**

**3t24\_A 000 VDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEWE 100**

**4d65\_A 000 KRAEAWNVGSKLELDELYLAAMYGQTLNTTRFGD---DD---------AEAIANKTENLELVALYSFD----FGLTPSIGYNQSKGKNLGNYGNKDLVKY 084**

**3t24\_A 101 RDMDIAYVFQSGPLKNLGVKWRNATMRTNY--------TNDYDENRLIVSYTL 145**

**4d65\_A 085 IAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 133**

**## PDB1: 3t24\_A**

**## PDB2: 4d65\_A**

**## row number: 164**

**3t24\_A 000 DKFDFAGGSYKWTDNLSTSYHYGKLDN--------------FYKQHYLGLVHTLPIADKQSLKSDIRWARSTDDGS--------SNVDNKALNAMFTYSL 078**

**4d65\_A 000 GDGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD-----ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYSF 095**

**3t24\_A 079 G-YHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNID 152**

**4d65\_A 096 DFGLTPSIGYNQSKGKNLG-----N-----Y------GNKDLVKYIAVGASYDFNK----NMAAVIDYKINLLKD 150**

**## PDB1: 3t24\_A**

**## PDB2: 4rjw\_A**

**## row number: 165**

**3t24\_A 000 DNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAG-------------------VGIPGLTFMTRYV 081**

**4rjw\_A 000 DDSVWGLEGAWAMGPFSAQAEYLARKLKADDNA----------------YKDIKAKGYYAQLAYTLTGESRQYKLEGAKFDSVKPENKEIGAWEVFYRYD 084**

**3t24\_A 082 KGDNIDLLTT-------SGEGKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTNY------TNDYDENRLIVSYTL 144**

**4rjw\_A 085 NIKVEDDNVVADTATREVGDTKAKAHNLGVNWYV----NDAVKISAAYVKAKTDKITNNNGDDDGDGFVTRLQYVF 156**

**## PDB1: 3t24\_A**

**## PDB2: 5fvn\_A**

**## row number: 166**

**3t24\_A 000 VDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLT-TSGEGKEW 099**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG---------N------LGWANKAQNFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYGDQDLLK 081**

**3t24\_A 100 ERDMDIAYVFQSGPLKNLGVKWRNATMRTNY--------TNDYDENRLIVSYTL 145**

**5fvn\_A 082 YVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 3t24\_A**

**## PDB2: 5fvn\_A**

**## row number: 167**

**3t24\_A 000 DKFDFAGGSYKWTDNLSTSYHYGKLDNF-------------YKQHYLGLVHTLPIADKQSLKSDIRWARSTDDGS-----SNVDNKALNAMFTYSLG-YH 081**

**5fvn\_A 000 GDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN-----NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFGL 095**

**3t24\_A 082 AFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNID 152**

**5fvn\_A 096 RPSVAYLQSKGKDLE----NG-----------YGDQDLLKYVDVGATYYFNK----NMSTYVDYKINLLDD 147**

**## PDB1: 3t24\_A**

**## PDB2: 5mdo\_A**

**## row number: 168**

**3t24\_A 000 DNKALNAMFTYSLG-YHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLT-TSGEGKEW 098**

**5mdo\_A 000 ENNTYLVGVQGWFENGISFFAQYKYMEADAS------N------------GVNEKQDAMSAGLMYTTG-----DWQYKLGYAANFDLERDGKTLSNTSDD 077**

**3t24\_A 099 ERDMDIAYVFQSGPLKNLGVKWRNATMRTN 128**

**5mdo\_A 078 VVSAQIMYFVD----PSAVLYARARMNDFN 103**

**## PDB1: 3t24\_A**

**## PDB2: 5nxr\_A**

**## row number: 169**

**3t24\_A 000 VDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLT-TSGEGKEW 099**

**5nxr\_A 000 KRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG----D----L------DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVK 082**

**3t24\_A 100 ERDMDIAYVFQSGPLKNLGVKWRNATMRTNY--------TNDYDENRLIVSYTL 145**

**5nxr\_A 083 YISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 132**

**## PDB1: 3t24\_A**

**## PDB2: 5nxr\_A**

**## row number: 170**

**3t24\_A 000 DKFDFAGGSYKWTDNLSTSYHYGKLDNF----------------------YKQHYLGLVHTLPIADKQSLKSDIRWARSTDDGS------SNVDNKALNA 072**

**5nxr\_A 000 GDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANKTENVEL 095**

**3t24\_A 073 MFTYSLG-YHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNID 152**

**5nxr\_A 096 VAQYLFDFGLKPSIGYNQSKGKNLG-----NG----Y------DNQDLVKYISVGSYYYFNK----NMSAVVDYKINLLKD 157**

**## PDB1: 3t24\_A**

**## PDB2: 6ehb\_A**

**## row number: 171**

**3t24\_A 000 KDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEWERDMDIAYVFQSGPLKNLGVKWRNATMRTNY-----TNDYDENRLIVSYTL 92**

**6ehb\_A 000 VDYTGYELAAGYKLGQ-----AAFTATYNNAETAK------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 82**

**## PDB1: 3t24\_A**

**## PDB2: 6ehb\_A**

**## row number: 172**

**3t24\_A 000 SDKFDFAGGSYKWTD-NLSTSYHYGKLDNFYKQHYLGLVHTLPIADKQSLKSDIRWARSTDDGSSNVDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAY 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK--DVDYTGYELAAGYKLGQAAFTATYNNAETAK---- 088**

**3t24\_A 100 INGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNID 153**

**6ehb\_A 089 ------------------KTSADNFAIDATYYFKP----NFRSYISYQFNLLDS 120**

**## PDB1: 3t24\_A**

**## PDB2: 6ehd\_A**

**## row number: 173**

**3t24\_A 000 VDNKALNAMFTYSLGYHAFGVGYQKMSGDTGFAYINGADPYLVNFIQIGDFANKDEKSWQARYDYNFAGVGIPGLTFMTRYVKGDNIDLLTTSGEGKEWE 100**

**6ehd\_A 000 VTNSYFEVTGEYTIGDALIGVTYYNAELDVEN-----N------------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT--GADEDGTL 077**

**3t24\_A 101 RDMDIAYVFQSGPLKNLGVKWRNATMRTN 129**

**6ehd\_A 078 VYLGVEYKFA----SWARVYAEYGYGDGT 102**

**## PDB1: 4afk\_A**

**## PDB2: 4rjw\_A**

**## row number: 174**

**4afk\_A 000 PKNFGLDVKITGESENDRDLGTAPGGTLNDIGIDLRPWAFGQWG-DWSAYFMGQAVAATDTIETDTLQSDTDDGNNSRNDGREPDKSYLAAREFWVDYAG 099**

**4rjw\_A 000 SFKLGGRLQADYSRFDGFYTK-NGNTADAAYFRRAFIELGGTAYKDWKYQINFDLSHNTG------------------------SSDNGYFDEASVTYTG 075**

**4afk\_A 100 LTAYPGEHLRFGRQRLREDSGQ 121**

**4rjw\_A 076 ---FNPVNLKFGRFDPDFGLEK 94**

**## PDB1: 4aui\_A**

**## PDB2: 5ldv\_A**

**## row number: 175**

**4aui\_A 000 AMADVTLYGTIKAGVETSRSVAHHGAQADRVKTATEIADLGSKIGFKGQEDLGNGLKAIWQLEQKAYVSG--------TDTGWGNRQSFIGLKG--GFGK 090**

**5ldv\_A 000 AIKDVDVSGVLRYRYDTGNFDKNFL-NNSNLNNSK--QDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATS 097**

**4aui\_A 091 VRVGRLNN--ILKDT----GNFNP-------WEGKSYY-SGLSNIAQ--PEE----------------------R-HVS----VRYDSP-EFAGFSGSVQ 146**

**5ldv\_A 098 VIAGKQQLNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIGNLYGAAAVGSYDLAGGQFNPQLW 197**

**4aui\_A 147 YVPNDNSGKNRSESYHAGFNYKND---GFFVQYAGSYKRHNYT--------TEKHQVHRLVGGYDHDALYASVAVQQQDAKL--------T-WRD----D 222**

**5ldv\_A 198 LAYWD----QVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDDKKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGSLLA 293**

**4aui\_A 223 N-------------SHNSQTEVATTVAYRFG-NVTPRVSYAHGFKGSVYD-ADHDNTYDQVVVGAEYDFSKRTSALVSAGWLQKGKGAE---KFVATVGG 304**

**5ldv\_A 294 GEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNTNESADHSTVR 393**

**4aui\_A 305 VGLRHKF 311**

**5ldv\_A 394 LQALYKF 400**

**## PDB1: 4d65\_A**

**## PDB2: 4frt\_A**

**## row number: 176**

**4d65\_A 000 KRAEAWNVGSKLELDELYLAAMYGQTLNTTRFGD---DD---A------EAIANKTENLELVALYSFD----FGLTPSIGYNQSKGKNLGNYGNKDLVKY 084**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEWE 100**

**4d65\_A 085 IAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 133**

**4frt\_A 101 RDTDIAYLVQSGPLKNLGIKLRNGTFRSDF--------GNDIDETRLIVSYAL 145**

**## PDB1: 4d65\_A**

**## PDB2: 4frt\_A**

**## row number: 177**

**4d65\_A 000 NGDGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD-----ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYS 095**

**4frt\_A 000 SDRFDFAGGTYRWSERLSSSYHYANLED--------------FYRQHHLGVQHLLPLADDQSLKSDIRWARSTDEGG--------SRVNNRALNALFTYR 078**

**4d65\_A 096 FDFGLTPSIGYNQSKGKNLG-------N--Y-G------NKDLVKYIAVGASYDFN----KNMAAVIDYKINLLK 150**

**4frt\_A 079 LG-GHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHI 152**

**## PDB1: 4d65\_A**

**## PDB2: 4frx\_A**

**## row number: 178**

**4d65\_A 000 GKRAEAWNVGSKLELDELYLAAMYGQTLNTTRFG--D------DD----A-----EAIANKTENLELVALYSFD----FGLTPSIGYNQSKGKNLGNYGN 079**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTA--RG 098**

**4d65\_A 080 KDLVKYIAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 134**

**4frx\_A 099 DQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**## PDB1: 4d65\_A**

**## PDB2: 4fso\_A**

**## row number: 179**

**4d65\_A 000 GKRAEAWNVGSKLELDELYLAAMYGQTLNTTRFGD---DD----A-----EAIANKTENLELVALYSFD----FGLTPSIGYNQSKGKNLGNYGNKDLVK 084**

**4fso\_A 000 KIDNRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLAN-GDEGKEW 099**

**4d65\_A 085 YIAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 134**

**4fso\_A 100 ERDIELKYIVQSGRFKDLSLRLRNATYRTDFER-----SARDVDEVRLIASYNL 148**

**## PDB1: 4d65\_A**

**## PDB2: 4fsp\_A**

**## row number: 180**

**4d65\_A 000 KRAEAWNVGSKLEL-DELYLAAMYGQTLNTTRFGD---DD----A-----EAIANKTENLELVALYSFD----FGLTPSIGYNQSKGKNLGNYGNKDLVK 083**

**4fsp\_A 000 IDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG-ADGSREW 099**

**4d65\_A 084 YIAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 133**

**4fsp\_A 100 ERDSDLRYVLQGGALKGLGLVWRNATYRSAF--------SRDIDENRLYLTYEL 145**

**## PDB1: 4d65\_A**

**## PDB2: 4ft6\_A**

**## row number: 181**

**4d65\_A 000 GKRAEAWNVGSKLELDELYLAAMYGQTLNTTRFGD-------D-D----AEAIANKTENLELVALYSFD----FGLTPSIGYNQSKGKNLGNYGNKDLVK 084**

**4ft6\_A 000 ELENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA-MDDGRAW 099**

**4d65\_A 085 YIAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 134**

**4ft6\_A 100 ERDVDVAYVIQSGPLKNLGLRWRNAMLRSNH--------AADVDENRLILSYSL 145**

**## PDB1: 4d65\_A**

**## PDB2: 5dl5\_A**

**## row number: 182**

**4d65\_A 000 GKRAEAWNVGSKLELDELYLAAMYGQTLNTTRFG------D-DDA---E-----AIANKTENLELVALYSFD-----FGLTPSIGYNQSKGKNLGNYGNK 080**

**5dl5\_A 000 EKTNNIWAISGTYATGPHSVMLAYQQNTGNVGYDYGQNADGFQSIYLPNSYMSDFIGNHEKSAQIQYNVDFGKLGVLPGLNWTTAFVYGWDIKVRNVTDD 100**

**4d65\_A 081 DLVKYIAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 134**

**5dl5\_A 101 AQEREFFNQVKYTVQSGFAKDASLRIRNSYYRASDAYQ--GAYIGDTNEWRIFLDIPV 156**

**## PDB1: 4d65\_A**

**## PDB2: 5dl6\_A**

**## row number: 183**

**4d65\_A 000 KRAEAWNVGSKLELDELYLAAMYGQTLNTTRFGD---DD----A-----EAIANKTENLELVALYSFD---FGLTPSIGYNQSKGKNLGN-YGNKDLVKY 084**

**5dl6\_A 000 VDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERE 100**

**4d65\_A 085 IAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 133**

**5dl6\_A 101 TDFDLGYTVQSGWLKNLGLRARYAIYDNNMLST---ANIKPVNETRINIDYTW 150**

**## PDB1: 4d65\_A**

**## PDB2: 5dl7\_A**

**## row number: 184**

**4d65\_A 000 NGDGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELD-----ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYS 095**

**5dl7\_A 000 TDSFYTLGGSYQLK-DYRLRAYHAELKD--------------IYQQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKK-----IGEVDNRHISGLFGLN 080**

**4d65\_A 096 FDFGLTPSIGYNQSKGKNLG------N-----Y-----GNKDLVKYIAVGASYDFNK---------NMAAVIDYKINLLK 150**

**5dl7\_A 081 YQ-NHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDI 159**

**## PDB1: 4d65\_A**

**## PDB2: 5dl8\_B**

**## row number: 185**

**4d65\_A 000 GDGYGFSTAYELGWGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLEL--D--ELYLAAMYGQTLNTTRFGDDDAEAIANKTENLELVALYSFD 096**

**5dl8\_B 000 DGLNYIDLRYQFTPSLKGEYYFGNLEDL--------------YNKHYVGLEHTWKQPTFALTSKFKYFNAKDDGNT-------FDIDAENIGLLETVKVK 079**

**4d65\_A 097 FGLTPSIGYNQSKGKNLG-------N--Y--------GNKDLVKYIAVGASYDFN---KNMAAVIDYKINLLK 149**

**5dl8\_B 080 -NHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDF 151**

**## PDB1: 4d65\_A**

**## PDB2: 5dl8\_B**

**## row number: 186**

**4d65\_A 000 KRAEAWNVGSKLELDELYLAAMYGQTLNTTRFGD----DD----A-----EAIANKTENLELVALYSFD---FGLTPSIGYNQSKGKNLGNYGNKDLVKY 084**

**5dl8\_B 000 IDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAAN-GEKNHETE 099**

**4d65\_A 085 IAVGASYDFN----KNMAAVIDYKINLLKDNQFTDDYGINTDNVLGLGLIYQF 133**

**5dl8\_B 100 SNVILNYAFQQPLLKGFALQYIRIDYNVKH--------GNDFGEDRLFVNYTK 144**

**## PDB1: 4d65\_A**

**## PDB2: 5ldv\_A**

**## row number: 187**

**4d65\_A 000 GNKLDVYGQIDVRHYFADAKSGE--------DGDDSRVRLGFKGDTQITDQLIGFGRFEWETSTNKA------ETSNDNQNRLAYAGLKFA-DYGSLDYG 085**

**5ldv\_A 000 IKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIAG 100**

**4d65\_A 086 RNYGVIYDTNAWTDVLPLWGADT-----M-DQ-ED--TF--MMGRNRN-L--L------------TYRNNNGFGYIDG-LSFALQYQGKN--GDQNKSTG 156**

**5ldv\_A 101 KQQLNIIWTDNGVDG-LVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDS---IGNLYGAAAVGSYDLAGGQFNPQLW 196**

**4d65\_A 157 SSALDNNGDGYGFSTAYELG----WGLSIGGGYSNSSRTPSQNNIKTGATGKRAEAWNVGSKLELDELYLAAMYGQTLNT-----------TRF---GDD 238**

**5ldv\_A 197 LAYWDQVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDD---KKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGSLLAG 293**

**4d65\_A 239 ------D---AEAIANKTENLELVALYSFDFGLTPSIGYNQSKGKNLGN-YGNKDLVKYIAVGASYDFNKNMAAVIDYKINLLKDNQFTDDYGINTDNVL 328**

**5ldv\_A 294 EEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVN--TNESADHSTV 391**

**4d65\_A 329 GLGLIYQF 336**

**5ldv\_A 392 RLQALYKF 399**

**## PDB1: 4frt\_A**

**## PDB2: 5fvn\_A**

**## row number: 188**

**4frt\_A 000 SDRFDFAGGTYRWSERLSSSYHYANLEDF-------------YRQHHLGVQHLLPLADDQSLKSDIRWARSTDEGG-----SRVNNRALNALFTYRLG-G 081**

**5fvn\_A 000 NGDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDAN-----NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFG 095**

**4frt\_A 082 HAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHI 152**

**5fvn\_A 096 LRPSVAYLQSKGKDLE----N--G---Y------GDQDLLKYVDVGATYYFN----KNMSTYVDYKINLLD 147**

**## PDB1: 4frt\_A**

**## PDB2: 5fvn\_A**

**## row number: 189**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD-GGGRGKEW 099**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG---------NL------GWANKAQNFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYGDQDLLK 081**

**4frt\_A 100 ERDTDIAYLVQSGPLKNLGIKLRNGTFRSDFG--------NDIDETRLIVSYAL 145**

**5fvn\_A 082 YVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 4frt\_A**

**## PDB2: 5mdo\_A**

**## row number: 190**

**4frt\_A 000 NNRALNALFTYRLG-GHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD-GGGRGKEW 098**

**5mdo\_A 000 ENNTYLVGVQGWFENGISFFAQYKYMEADASN-----------G-------VNEKQDAMSAGLMYTTG----D-WQYKLGYAANFDLERDGKTLSNTSDD 077**

**4frt\_A 099 ERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF 129**

**5mdo\_A 078 VVSAQIMYFVD----PSAVLYARARMNDFNE 104**

**## PDB1: 4frt\_A**

**## PDB2: 5nxr\_A**

**## row number: 191**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD-GGGRGKEW 099**

**5nxr\_A 000 KRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG----D----L------DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVK 082**

**4frt\_A 100 ERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF--------GNDIDETRLIVSYAL 145**

**5nxr\_A 083 YISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 132**

**## PDB1: 4frt\_A**

**## PDB2: 5nxr\_A**

**## row number: 192**

**4frt\_A 000 SDRFDFAGGTYRWSERLSSSYHYANLEDF----------------------YRQHHLGVQHLLPLADDQSLKSDIRWARSTDEGG------SRVNNRALN 072**

**5nxr\_A 000 NGDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANKTENVE 095**

**4frt\_A 073 ALFTYRLG-GHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHI 152**

**5nxr\_A 096 LVAQYLFDFGLKPSIGYNQSKGKNLGN---G------Y------DNQDLVKYISVGSYYYFN----KNMSAVVDYKINLLK 157**

**## PDB1: 4frt\_A**

**## PDB2: 5nxr\_A**

**## row number: 193**

**4frt\_A 000 NNRALNALFTYRLG-GHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLD--GGGRGKE 097**

**5nxr\_A 000 NGDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSE-GD---SYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANKT 091**

**4frt\_A 098 WERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF-------GNDIDETRLIVSYALP 145**

**5nxr\_A 092 ENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVKYISVGSYYYFN 142**

**## PDB1: 4frt\_A**

**## PDB2: 6ehb\_A**

**## row number: 194**

**4frt\_A 000 KDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEWERDTDIAYLVQSGPLKNLGIKLRNGTFRSDF-----GNDIDETRLIVSYAL 92**

**6ehb\_A 000 VDYTGYELAAGYKLGQ-----AAFTATYNNAETAK------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 82**

**## PDB1: 4frt\_A**

**## PDB2: 6ehb\_A**

**## row number: 195**

**4frt\_A 000 SDRFDFAGGTYRWSE-RLSSSYHYANLEDFYRQHHLGVQHLLPLADDQSLKSDIRWARSTDEGGSRVNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAY 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK--DVDYTGYELAAGYKLGQAAFTATYNNAETAK---- 088**

**4frt\_A 100 LAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHI 152**

**6ehb\_A 089 ------------------KTSADNFAIDATYYFK----PNFRSYISYQFNLLD 119**

**## PDB1: 4frt\_A**

**## PDB2: 6ehd\_A**

**## row number: 196**

**4frt\_A 000 VNNRALNALFTYRLGGHAFGLGYQRMSGDSGFAYLAGTDPYLVNFVQIGDFANKDERSWQLRYDYDFAAIGLPGLTFMSRYLRGEHIDLLDGGGRGKEWE 100**

**6ehd\_A 000 VTNSYFEVTGEYTIGDALIGVTYYNAELDVEN-------N---P-------LVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT--GADEDGTL 077**

**4frt\_A 101 RDTDIAYLVQSGPLKNLGIKLRNGTFRSD 129**

**6ehd\_A 078 VYLGVEYKFA----SWARVYAEYGYGDGT 102**

**## PDB1: 4frx\_A**

**## PDB2: 5fvn\_A**

**## row number: 197**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTA---R 097**

**5fvn\_A 000 GDRAETYTGGLKYDANNIYLAAQYTQTYNATRVG---------------N-----LGWANKAQNFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYG 076**

**4frx\_A 098 GDQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**5fvn\_A 077 DQDLLKYVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 132**

**## PDB1: 4frx\_A**

**## PDB2: 5nxr\_A**

**## row number: 198**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTA---R 097**

**5nxr\_A 000 GKRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG---------D-----L-----DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYD 077**

**4frx\_A 098 GDQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 157**

**5nxr\_A 078 NQDLVKYISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 133**

**## PDB1: 4frx\_A**

**## PDB2: 6ehb\_A**

**## row number: 199**

**4frx\_A 000 SNKFYYAGGDYKVNK-DLTLQYYYGNLDDFYKQHFLGLIHNWQIGPGVLKTDLRAFDSSSDGKNGSRSGRADGYVSSGYYGSGVTKGEVDNRAFSGLFTY 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRM--E--NLYFAGLFTDGELA-------------------------KDVDYTGYELAAGY 070**

**4frx\_A 100 TVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIK 180**

**6ehb\_A 071 KLGQAAFTATYNNAETAK---------------------------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDS 120**

**## PDB1: 4frx\_A**

**## PDB2: 6ehb\_A**

**## row number: 200**

**4frx\_A 000 VDNRAFSGLFTYTVS--GHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKF-QRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTARG 097**

**6ehb\_A 000 NGEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEY-MLAASYRM-ENLYFAGLFTDGELAKDVDYTGYELAAGYKLGQ-----AAFTATYNNAETAK---- 089**

**4frx\_A 098 DQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 156**

**6ehb\_A 090 KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKA---SKVASEDELAIGLRYDF 141**

**## PDB1: 4frx\_A**

**## PDB2: 6ehb\_A**

**## row number: 201**

**4frx\_A 000 VDNRAFSGLFTYTVS--GHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKF-QRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTARG 097**

**6ehb\_A 000 NGEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEY-MLAASYRM-ENLYFAGLFTDGELAKDVDYTGYELAAGYKLGQ-----AAFTATYNNAETAK---- 089**

**4frx\_A 098 DQSEWERDISLAYVIPDGTFKGLGFTWKNASFRSGLPAAGSSNNQRDQDENRLIVSYTL 156**

**6ehb\_A 090 KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKA---SKVASEDELAIGLRYDF 141**

**## PDB1: 4frx\_A**

**## PDB2: 6ehd\_A**

**## row number: 202**

**4frx\_A 000 EVDNRAFSGLFTYTVSGHSIGAGYQILNGDSDFPFLNRGDGEGSTAYLITDVQIGKFQRAGERTWQVRYGYDFATVGVPGLTFNTIYLSGDKIKTARGDQ 100**

**6ehd\_A 000 DVTNSYFEVTGEYTIGDALIGVTYYNAELDVEN----------N------------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANTGADE 074**

**4frx\_A 101 SEWERDISLAYVIPDGTFKGLGFTWKNASFRSGL 134**

**6ehd\_A 075 DGTLVYLGVEYKFA----SWARVYAEYGYGDGTT 104**

**## PDB1: 4fso\_A**

**## PDB2: 5fvn\_A**

**## row number: 203**

**4fso\_A 000 IDNRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLAN--GDEGKEW 098**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG----------N-----LGWANKAQNFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYGDQDLLK 081**

**4fso\_A 099 ERDIELKYIVQSGRFKDLSLRLRNATYRTDFER-----SARDVDEVRLIASYNL 147**

**5fvn\_A 082 YVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 4fso\_A**

**## PDB2: 5nxr\_A**

**## row number: 204**

**4fso\_A 000 KIDNRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLAN--GDEGKE 098**

**5nxr\_A 000 GKRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG-----D----L-----DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLV 082**

**4fso\_A 099 WERDIELKYIVQSGRFKDLSLRLRNATYRTDFER-----SARDVDEVRLIASYNL 148**

**5nxr\_A 083 KYISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 133**

**## PDB1: 4fso\_A**

**## PDB2: 5nxr\_A**

**## row number: 205**

**4fso\_A 000 NRFDAYQLDYQVNDGLLLQYAQGGLRNV----------------------YRQRYLGAVGKRQVGAGKLSADLRWFDSEDAGAAR---AGKIDNRALSLL 075**

**5nxr\_A 000 GDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDA--N--NVYLAAMYGQTQNTSRYGDLDLIANKTENVELV 096**

**4fso\_A 076 LAYAQG-GHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIR 154**

**5nxr\_A 097 AQYLFDFGLKPSIGYNQSKGKNLG------NG---Y------DNQDLVKYISVGSYYYFN----KNMSAVVDYKINLLKD 157**

**## PDB1: 4fso\_A**

**## PDB2: 6ehb\_A**

**## row number: 206**

**4fso\_A 000 DNRALSLLLAYAQG--GHTLSAGWQRMNGASSM----PYLDGSNPYLANYLQVNDF-ANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLANGDE 093**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEYMLAASYRMEN-LYFAGLFTDGELAKDVDYTGYELAAGYKLG----Q-AAFTATYNNAETAK-----K 089**

**4fso\_A 094 GKEWERDIELKYIVQSGRFKDLSLRLRNATYRTDFER--SARDVDEVRLIASYNL 146**

**6ehb\_A 090 TSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 140**

**## PDB1: 4fso\_A**

**## PDB2: 6ehd\_A**

**## row number: 207**

**4fso\_A 000 NRALSLLLAYAQGGHTLSAGWQRMNGASSMPYLDGSNPYLANYLQVNDFANPEERSWQLRYDFDLRSVGVPGLSFMTRYVNGDHIRLANGDEGKEWERDI 100**

**6ehd\_A 000 QELAELYVGATFGDLAVHAGGGQNRDKAFKVGS--NTVGTTTT---DIKADVTNSYFEVTGEYTIG-----DALIGVTYYNAELDVENNPLVIDEDAISV 090**

**4fso\_A 101 ELKYIVQSGRFKDLSLRLRNATYRTDFE-RSARDVDEVRLIASYNLS 146**

**6ehd\_A 091 AGTYKVA----DKTKLYAGYEYVMQEANTGADEDGTLVYLGVEYKFA 133**

**## PDB1: 4fsp\_A**

**## PDB2: 5fvn\_A**

**## row number: 208**

**4fsp\_A 000 IDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG--ADGSRE 098**

**5fvn\_A 000 DRAETYTGGLKYDA-NNIYLAAQYTQTYNATRVG----------NL-----GWANKAQNFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYGDQDLL 080**

**4fsp\_A 099 WERDSDLRYVLQGGALKGLGLVWRNATYRSAFS--------RDIDENRLYLTYEL 145**

**5fvn\_A 081 KYVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 4fsp\_A**

**## PDB2: 5nxr\_A**

**## row number: 209**

**4fsp\_A 000 DNRSFSGSLTYRLRN-GQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG---ADGSR 096**

**5nxr\_A 000 NGDGYGFSTAYEL-GWGVTLGGGYSSSSRTPNQKAGVVTSE-GD---SYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANK 090**

**4fsp\_A 097 EWERDSDLRYVLQGGALKGLGLVWRNATYRSAF-------SRDIDENRLYLTYEL 144**

**5nxr\_A 091 TENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVKYISVGSYYYF 141**

**## PDB1: 4fsp\_A**

**## PDB2: 5nxr\_A**

**## row number: 210**

**4fsp\_A 000 DNRSFSGSLTYRLRN-GQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG---ADGSR 096**

**5nxr\_A 000 NGDGYGFSTAYEL-GWGVTLGGGYSSSSRTPNQKAGVVTSE-GD---SYYSATGKRAQAWNVGGKFDAN-----NVYLAAMYGQTQNTSRYGDLDLIANK 090**

**4fsp\_A 097 EWERDSDLRYVLQGGALKGLGLVWRNATYRSAF-------SRDIDENRLYLTYEL 144**

**5nxr\_A 091 TENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLVKYISVGSYYYF 141**

**## PDB1: 4fsp\_A**

**## PDB2: 5nxr\_A**

**## row number: 211**

**4fsp\_A 000 RIDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKG--ADGSR 098**

**5nxr\_A 000 GKRAQAWNVGGKFDA-NNVYLAAMYGQTQNTSRYG-----D----L-----DLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDL 081**

**4fsp\_A 099 EWERDSDLRYVLQGGALKGLGLVWRNATYRSAF--------SRDIDENRLYLTYEL 146**

**5nxr\_A 082 VKYISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 133**

**## PDB1: 4fsp\_A**

**## PDB2: 6ehb\_A**

**## row number: 212**

**4fsp\_A 000 DNRSFSGSLTYRLRN--GQAFGLGYQRMSGDHGF----PYLEGTDPYLVNF-GQYNDF-AEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKGA 092**

**6ehb\_A 000 GEDGYSLSAIYTF-GDTGFNVGAGYADQDDQNEYMLAASYRME--NLYFAGLFTDGELAKDVDYTGYELAAGYKLGQ-----AAFTATYNNAETAK---- 088**

**4fsp\_A 093 DGSREWERDSDLRYVLQGGALKGLGLVWRNATYRSAF-----SRDIDENRLYLTYEL 144**

**6ehb\_A 089 -KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 140**

**## PDB1: 4fsp\_A**

**## PDB2: 6ehd\_A**

**## row number: 213**

**4fsp\_A 000 RIDNRSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKGADGSREW 100**

**6ehd\_A 000 DVTNSYFEVTGEYTI-GDALIGVTYYNAELDVEN-------N----------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT-GADEDGT 077**

**4fsp\_A 101 ERDSDLRYVLQGGALKGLGLVWRNATYRSA 130**

**6ehd\_A 078 LVYLGVEYKFA----SWARVYAEYGYGDGT 103**

**## PDB1: 4fsp\_A**

**## PDB2: 6ehd\_A**

**## row number: 214**

**4fsp\_A 000 RSFSGSLTYRLRNGQAFGLGYQRMSGDHGFPYLEGTDPYLVNFGQYNDFAEAGESSWQLRYDCDFAPLGVPGLSLMTRYFSGHGAKPKGADGSREWERDS 100**

**6ehd\_A 000 ELAELYVGATF-GDLAVHAGGGQNRDKAFKVG-S-NTVGTTTT---DIKADVTNSYFEVTGEYTIG-----DALIGVTYYNAELDVENNPLVIDEDAISV 089**

**4fsp\_A 101 DLRYVLQGGALKGLGLVWRNATYRSAF----SRDIDENRLYLTYEL 142**

**6ehd\_A 090 AGTYKVA----DKTKLYAGYEYVMQEANTGADEDGTLVYLGVEYKF 131**

**## PDB1: 4ft6\_A**

**## PDB2: 5fvn\_A**

**## row number: 215**

**4ft6\_A 000 LENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA--MDDGRAW 098**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG----------N-----LGWANKAQNFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYGDQDLLK 081**

**4ft6\_A 099 ERDVDVAYVIQSGPLKNLGLRWRNAMLRSNHA--------ADVDENRLILSYSL 144**

**5fvn\_A 082 YVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 4ft6\_A**

**## PDB2: 5fvn\_A**

**## row number: 216**

**4ft6\_A 000 ENRALTGFFSATRG-GHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTK--AMDDGRAW 097**

**5fvn\_A 000 NGDGVGGSITYNLGEGFGIGTAVSSSKRTSSQN-------DL------TYGNGDRAETYTGGLKYDAN-----NIYLAAQYTQTYNATRVGNLGWANKAQ 082**

**4ft6\_A 098 ERDVDVAYVIQSGPLKNLGLRWRNAMLRSNH-------AADVDENRLILSYSL 143**

**5fvn\_A 083 NFEVVAQYQFD----FGLRPSVAYLQSKGKDLENGYGDQDLLKYVDVGATYYF 131**

**## PDB1: 4ft6\_A**

**## PDB2: 5mdo\_A**

**## row number: 217**

**4ft6\_A 000 ENRALTGFFSATRG-GHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTK--AMDDGRAW 097**

**5mdo\_A 000 ENNTYLVGVQGWFENGISFFAQYKYMEADASN------------------GVNEKQDAMSAGLMYTTG----D-WQYKLGYAANFDLERDGKTLSNTSDD 077**

**4ft6\_A 098 ERDVDVAYVIQSGPLKNLGLRWRNAMLRSNH---------------AADVDENRLILSYSL 143**

**5mdo\_A 078 VVSAQIMYFVD----PSAVLYARARMNDFNEGLDGLDDAARWTSGTNGDYNEYSVGVEYYF 134**

**## PDB1: 4ft6\_A**

**## PDB2: 5nxr\_A**

**## row number: 218**

**4ft6\_A 000 ELENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKA--MDDGRA 098**

**5nxr\_A 000 GKRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG-------D-------LDLIANKTENVELVAQYLFD----FGLKPSIGYNQSKGKNLGNGYDNQDLV 082**

**4ft6\_A 099 WERDVDVAYVIQSGPLKNLGLRWRNAMLRSNH--------AADVDENRLILSYSL 145**

**5nxr\_A 083 KYISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 133**

**## PDB1: 4ft6\_A**

**## PDB2: 6ehb\_A**

**## row number: 219**

**4ft6\_A 000 RFDYLGAEYRFNAERSQVGLWQARLQDIYRQDYYSLSHKQSFGGWRLGASVGLFDTRDEGAAKLGELENRALTGFFSATRGGHSLGAGYQRMYGDDGMLY 100**

**6ehb\_A 000 DGYSLSAIYTFGDTGFNVGAGYADQD-DQNEYMLAASYRM--E--NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETAK---- 086**

**4ft6\_A 101 IAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKAMDDGRAWERDVDVAYV 173**

**6ehb\_A 087 ------------------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYD 137**

**## PDB1: 4ft6\_A**

**## PDB2: 6ehd\_A**

**## row number: 220**

**4ft6\_A 000 RALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKAMDDGRAWERDVD 100**

**6ehd\_A 000 ELAELYVGATFGDLAVHAGGGQNRDKAFKVG---S-NTVGTT-TTDIKADVTNSYFEVTGEYTIG-----DALIGVTYYNAELDVENNPLVIDEDAISVA 090**

**4ft6\_A 101 VAYVIQSGPLKNLGLRWRNAMLRSNH----AADVDENRLILSYSL 141**

**6ehd\_A 091 GTYKVA----DKTKLYAGYEYVMQEANTGADEDGTLVYLGVEYKF 131**

**## PDB1: 4ft6\_A**

**## PDB2: 6ehd\_A**

**## row number: 221**

**4ft6\_A 000 ELENRALTGFFSATRGGHSLGAGYQRMYGDDGMLYIAGTSTPLVNDIQVRNFTSAGERSWQLRYDYDFVALGIPGLTAMARYASGAHARTKAMDDGRAWE 100**

**6ehd\_A 000 DVTNSYFEVTGEYTIGDALIGVTYYNAELDVEN--------N---------PLVIDEDAISVAGTYKVA----DKTKLYAGYEYVMQEANT-GADEDGTL 078**

**4ft6\_A 101 RDVDVAYVIQSGPLKNLGLRWRNAMLRSN 129**

**6ehd\_A 079 VYLGVEYKFA----SWARVYAEYGYGDGT 103**

**## PDB1: 4rjw\_A**

**## PDB2: 5ldv\_A**

**## row number: 222**

**4rjw\_A 000 FSFKLGGRLQADYSRFDGFYTKN-----GNTADAAYFRRAFIELGGTAYKDWKYQINFDLSHNTG---------SSDNGYFDEASVTYTGF-NPVNLKFG 085**

**5ldv\_A 000 KDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKY-RAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVIAG 099**

**4rjw\_A 086 RFDPDF 91**

**5ldv\_A 100 KQQLNI 105**

**## PDB1: 5dl5\_A**

**## PDB2: 6ehb\_A**

**## row number: 223**

**5dl5\_A 000 LDRAIVWGAKYKFND-NLNASYYGLDSKNALERHYANVNFKQPLANDSSLTYDFSGYHTKFDANAHTYSATGTVAPNYAADGIAGEEKTNNIWAISGTYA 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK-----------------------DVDYTGYELAAGYK 071**

**5dl5\_A 100 TGPHSVMLAYQQNTGNVGYDYGQNADGFQSIYLPNSYMSDFIGNHEKSAQIQYNVDFGKLGVLPGLNWTTAFVYGWD 176**

**6ehb\_A 072 LGQAAFTATYNNAETA-------------------------KKTSADNFAIDATYYFK-----PNFRSYISYQFNLL 118**

**## PDB1: 5dl6\_A**

**## PDB2: 5fvn\_A**

**## row number: 224**

**5dl6\_A 000 VDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERE 100**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG-----N----------LGWANKAQNFEVVAQYQFD---FGLRPSVAYLQSKGKDLENGYGDQDLLKY 082**

**5dl6\_A 101 TDFDLGYTVQSGWLKNLGLRARYAIYDNNMLST---ANIKPVNETRINIDYTW 150**

**5fvn\_A 083 VDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 5dl6\_A**

**## PDB2: 5nxr\_A**

**## row number: 225**

**5dl6\_A 000 VDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERE 100**

**5nxr\_A 000 KRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG-----D----L-----DLIANKTENVELVAQYLFD---FGLKPSIGYNQSKGKNLGNGYDNQDLVKY 083**

**5dl6\_A 101 TDFDLGYTVQSGWLKNLGLRARYAIYDNNMLST---ANIKPVNETRINIDYTW 150**

**5nxr\_A 084 ISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 132**

**## PDB1: 5dl6\_A**

**## PDB2: 6ehb\_A**

**## row number: 226**

**5dl6\_A 000 DNDLYHAHFELKHQ--NHKFIFGTFQHHGDTAF----PYLTGGETGLLIDTWP-GEF-LNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGG 092**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEYMLAASYRMENLY-F-AGLFTDGELAKDVDYTGYELAAGYKLG---Q-AAFTATYNNAETA------- 087**

**5dl6\_A 093 TNLKERETDFDLGYTVQSGWLKNLGLRARYAIYDNNMLSTANIKPVNETRINIDYTW 149**

**6ehb\_A 088 KKTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 140**

**## PDB1: 5dl6\_A**

**## PDB2: 6ehd\_A**

**## row number: 227**

**5dl6\_A 000 VDNDLYHAHFELKHQNHKFIFGTFQHHGDTAFPYLTGGETGLLIDTWPGEFLNPKEKAYSFRYEYDFKEYVPGLCFMTRYTTGHNIYAPNLGGTNLKERE 100**

**6ehd\_A 000 VTNSYFEVTGEYTIGDALIGVTYYNAELDVEN------N-----------PLVIDEDAISVAGTYKVA---DKTKLYAGYEYVMQEANT---GADEDGTL 077**

**5dl6\_A 101 TDFDLGYTVQSGWLKNLGLRARYAIYDNNM 130**

**6ehd\_A 078 VYLGVEYKFA----SWARVYAEYGYGDGTT 103**

**## PDB1: 5dl7\_A**

**## PDB2: 5fvn\_A**

**## row number: 228**

**5dl7\_A 000 VDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGDQ 100**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG----------NL-----GWANKAQNFEVVAQYQFD---------FGLRPSVAYLQSKGKDLENGYGD 076**

**5dl7\_A 101 RFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTN---MTFHSANETRLNVDYTF 156**

**5fvn\_A 077 QDLLKYVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 5dl7\_A**

**## PDB2: 5nxr\_A**

**## row number: 229**

**5dl7\_A 000 EVDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGD 100**

**5nxr\_A 000 GKRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG------D---L-----DLIANKTENVELVAQYLFD---------FGLKPSIGYNQSKGKNLGNGYD 077**

**5dl7\_A 101 QRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTN---MTFHSANETRLNVDYTF 157**

**5nxr\_A 078 NQDLVKYISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 133**

**## PDB1: 5dl7\_A**

**## PDB2: 6ehb\_A**

**## row number: 230**

**5dl7\_A 000 DNRHISGLFGLNYQ--NHTVSLGYMQSFGSTGL----PFLSGTESPVVLD--FMSSDY-SNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDI 091**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDDQNEYMLAASYRME---NLYFAGLFTDGELAKDVDYTGYELAAGYKLGQ----------AAFTATYNNAETA 087**

**5dl7\_A 092 DLLQYGDQRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDMPTNMTFHSANETRLNVDYTF 155**

**6ehb\_A 088 K-------KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 140**

**## PDB1: 5dl7\_A**

**## PDB2: 6ehb\_A**

**## row number: 231**

**5dl7\_A 000 TDSFYTLGGSYQLK--DYRLRAYHAELKDIYQQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKKIGEVDNRHISGLFGLNYQNHTVSLGYMQSFGSTG 098**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRME-----NLYFAGLFTDGELAK-----DVDYTGYELAAGYKLGQAAFTATYNNAETAK- 088**

**5dl7\_A 099 LPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDID 160**

**6ehb\_A 089 ---------------------KTSADNFAIDATYYFKP---------NFRSYISYQFNLLDS 120**

**## PDB1: 5dl7\_A**

**## PDB2: 6ehd\_A**

**## row number: 232**

**5dl7\_A 000 EVDNRHISGLFGLNYQNHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDIDLLQYGD 100**

**6ehd\_A 000 DVTNSYFEVTGEYTIGDALIGVTYYNAELDVEN------N-----------PLVIDEDAISVAGTYKVA---------DKTKLYAGYEYVMQEANTG--- 071**

**5dl7\_A 101 QRFKEDSLEFDLGYKIPEGKLKGLGMRARFSHYRNDM 137**

**6ehd\_A 072 ADEDGTLVYLGVEYKFA----SWARVYAEYGYGDGTT 104**

**## PDB1: 5dl7\_A**

**## PDB2: 6ehd\_A**

**## row number: 233**

**5dl7\_A 000 SFYTLGGSYQLKDYRLRAYHAELKD---------------------IYQQQFLGFNGKQPLNDQLNFLSDVRFFNSEETGSKKIGEVDNRHISGLFGLNY 079**

**6ehd\_A 000 ELAELYVGATFGDLAVHAGGGQNRDKAFKVGSNTVGTTTTDIKADVTNSYFEVTGEYTIG-----DALIGVTYYNAELDVENNPLVIDEDAISVAGTYKV 095**

**5dl7\_A 080 Q-NHTVSLGYMQSFGSTGLPFLSGTESPVVLDFMSSDYSNKDEKVYSIRYEYDFKNARIGDVSLNGLRFMTRYAKGEDI 157**

**6ehd\_A 096 ADKTKLYAGYEYVMQEANT------------G------ADEDGTLVYLGVEYKFAS---------WARVYAEYGYGDGT 147**

**## PDB1: 5dl8\_B**

**## PDB2: 5fvn\_A**

**## row number: 234**

**5dl8\_B 000 IDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAAN--GEKNHET 098**

**5fvn\_A 000 DRAETYTGGLKYDANNIYLAAQYTQTYNATRVG------N-----L-----GWANKAQNFEVVAQYQFD---FGLRPSVAYLQSKGKDLENGYGDQDLLK 081**

**5dl8\_B 099 ESNVILNYAFQQPLLKGFALQYIRIDYNVKH--------GNDFGEDRLFVNYTK 144**

**5fvn\_A 082 YVDVGATYYFN----KNMSTYVDYKINLLDDKEFTRNAGISTDDIVALGLVYQF 131**

**## PDB1: 5dl8\_B**

**## PDB2: 5fvn\_A**

**## row number: 235**

**5dl8\_B 000 SDGLNYIDLRYQFTPSLKGEYYFGNLEDL-------------YNKHYVGLEHTWKQPTFALTSKFKYFNAKDDGNT----FDIDAENIGLLETVKVK-NH 082**

**5fvn\_A 000 NGDGVGGSITYNLGEGFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDA--N--NIYLAAQYTQTYNATRVGNLGWANKAQNFEVVAQYQFDFGL 096**

**5dl8\_B 083 TFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDF 152**

**5fvn\_A 097 RPSVAYLQSKGKDLE----N--G--Y--------GDQDLLKYVDVGATYYFN---KNMSTYVDYKINLLD 147**

**## PDB1: 5dl8\_B**

**## PDB2: 5nxr\_A**

**## row number: 236**

**5dl8\_B 000 IDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAAN--GEKNHET 098**

**5nxr\_A 000 KRAQAWNVGGKFDANNVYLAAMYGQTQNTSRYG------D----L-----DLIANKTENVELVAQYLFD---FGLKPSIGYNQSKGKNLGNGYDNQDLVK 082**

**5dl8\_B 099 ESNVILNYAFQQPLLKGFALQYIRIDYNVKH--------GNDFGEDRLFVNYTK 144**

**5nxr\_A 083 YISVGSYYYFN----KNMSAVVDYKINLLKDNDFTKEYGINTDNVLGLGLVYQF 132**

**## PDB1: 5dl8\_B**

**## PDB2: 5nxr\_A**

**## row number: 237**

**5dl8\_B 000 SDGLNYIDLRYQFTPSLKGEYYFGNLEDL----------------------YNKHYVGLEHTWKQPTFALTSKFKYFNAKDDGNT-----FDIDAENIGL 073**

**5nxr\_A 000 NGDGYGFSTAYELGWGVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDA--N--NVYLAAMYGQTQNTSRYGDLDLIANKTENVEL 096**

**5dl8\_B 074 LETVKVK-NHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDF 152**

**5nxr\_A 097 VAQYLFDFGLKPSIGYNQSKGKNLG------NG--Y--------DNQDLVKYISVGSYYYFN---KNMSAVVDYKINLLK 157**

**## PDB1: 5dl8\_B**

**## PDB2: 6ehb\_A**

**## row number: 238**

**5dl8\_B 000 EDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAANGEKNHETESNVILNYAFQQPLLKGFALQYIRIDYNVKH-----GNDFGEDRLFVNYTK 90**

**6ehb\_A 000 VDYTGYELAAGYKLG---Q-AAFTATYNNAETAK-----KTSADNFAIDATYYFK----PNFRSYISYQFNLLDSDKASKVASEDELAIGLRYDF 82**

**## PDB1: 5dl8\_B**

**## PDB2: 6ehb\_A**

**## row number: 239**

**5dl8\_B 000 SDGLNYIDLRYQFTP-SLKGEYYFGNLEDLYNKHYVGLEHTWKQPTFALTSKFKYFNAKDDGNTFDIDAENIGLLETVKVKNHTFGLGYQQIIGESAYPL 099**

**6ehb\_A 000 GEDGYSLSAIYTFGDTGFNVGAGYADQDD-QNEYMLAASYRM--E--NLYFAGLFTDGELAK---DVDYTGYELAAGYKLGQAAFTATYNNAETAK---- 088**

**5dl8\_B 100 PDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDF 152**

**6ehb\_A 089 -------------------KTSADNFAIDATYYFK---PNFRSYISYQFNLLD 119**

**## PDB1: 5dl8\_B**

**## PDB2: 6ehd\_A**

**## row number: 240**

**5dl8\_B 000 IDAENIGLLETVKVKNHTFGLGYQQIIGESAYPLPDGFLPETYFINWNATGFFKEDEKSYHVMYGYDFKDYIPGLNAMVKYVYGHDFKAANGEKNHETES 100**

**6ehd\_A 000 VTNSYFEVTGEYTIGDALIGVTYYNAELDVEN-------N----P-------LVIDEDAISVAGTYKVA---DKTKLYAGYEYVMQEANT-GADEDGTLV 078**

**5dl8\_B 101 NVILNYAFQQPLLKGFALQYIRIDYNVK 128**

**6ehd\_A 079 YLGVEYKFA----SWARVYAEYGYGDGT 102**

**## PDB1: 5fvn\_A**

**## PDB2: 5ldv\_A**

**## row number: 241**

**5fvn\_A 000 NKDGNKLDLYGKVDGLHYFSDDDSQ---------DGDQTYMRLGFKGETQVNDQLTGYGQWEYQIQGNSG-----E-NENNSWTRVAFAGLKF--GDAGS 083**

**5ldv\_A 000 EEAIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVAT-S 099**

**5fvn\_A 084 FDYGRNYGVVYDVTSWTD--VLPEFG---GDTYGS--D-NF---MQQRGN-G--FA------------TYRNSDFFGLVDG-LNFAVQYQGKNGSASGED 156**

**5ldv\_A 100 VIAGKQQLNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSI---GNLYGAAAVGSYDLAGGQFNP 196**

**5fvn\_A 157 QTNNGRTELRQNGDGVGGSITYNLG--E--GFGIGTAVSSSKRTSSQNDLTYGNGDRAETYTGGLKYDANNIYLAAQYTQTYNA-----------TRV-- 239**

**5ldv\_A 197 QLW--LAYWDQVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDD--KKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNLGS 292**

**5fvn\_A 240 --G------N-----LGWANKAQNFEVVAQYQFDFGLRPSVAYLQSKGKDLENGYGDQDLLKYVDVGATYYFNKNMSTYVDYKINLLDDKEFTRNAGIST 326**

**5ldv\_A 293 LLAGEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNT--NESAD 390**

**5fvn\_A 327 DDIVALGLVYQF 338**

**5ldv\_A 391 HSTVRLQALYKF 402**

**## PDB1: 5ldv\_A**

**## PDB2: 5nxr\_A**

**## row number: 242**

**5ldv\_A 000 EAIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVI 100**

**5nxr\_A 000 KDGNKLDVYGKVDVRHYFASADKGKKS-----EDGDDSRVRLGVKGDTQITDQLTGFGRFEWETKTNKA------ENEGENKNRLAYAGLKFA-DFGSID 088**

**5ldv\_A 101 AGKQQLNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDS-FMAAEQGSDLLGQSTYVGNGKNNNDSFKLDS---IGNLYGAAAVGSYDLAGGQFNPQ 196**

**5nxr\_A 089 YGRNYGVVYDTNAWTD--VFPLW---GADTMA------QTDNFMTSRNRN-L--L------------TYRNNNAFGYVDG-LSFALQYQGKNGDNNKSSA 161**

**5ldv\_A 197 LWLAYWDQVAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELDD-----------KKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIED 285**

**5nxr\_A 162 ---GMAKDNGDGYGFSTAYELGW----GVTLGGGYSSSSRTPNQKAGVVTSEGDSYYSATGKRAQAWNVGGKFDANNVYLAAMYGQTQNT---------- 244**

**5ldv\_A 286 QGNLGSLLAGEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNT- 384**

**5nxr\_A 245 -SRY----GD----------LDLIANKTENVELVAQYLFDFGLKPSIGYNQSKGKNLGNGYDNQDLVKYISVGSYYYFNKNMSAVVDYKINLLKDNDFTK 329**

**5ldv\_A 385 -NESADHSTVRLQALYKF 401**

**5nxr\_A 330 EYGINTDNVLGLGLVYQF 347**

**## PDB1: 5ldv\_A**

**## PDB2: 6ehb\_A**

**## row number: 243**

**5ldv\_A 000 EAIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSVI 100**

**6ehb\_A 000 AKGTSLEVGGRAEARLSLKDGKAQ-----------DNSRVRLNFLGKAEINDSLYGVGFYEGEFTTNDQG--K-NASNNSLDNRYTYAGIGG--TYGEVT 084**

**5ldv\_A 101 AGKQQLN 107**

**6ehb\_A 085 YGKNDGA 91**

**## PDB1: 5ldv\_A**

**## PDB2: 6ehd\_A**

**## row number: 244**

**5ldv\_A 000 EEAIKDVDVSGVLRYRYDTGNFDKNFLNNSNLNNSKQDHKYRAQVNFSAAIADNFKAFVQFDYNAVDGGTGVDNATNAEKGLFVRQLYLTYTNEDVATSV 100**

**6ehd\_A 000 KSDAGTVDFYGQLRTELKFLEDKDP---------TIGSGSSRAGVDANYTVNDSLALQGKVEFALKDS-----------GDMYVRNHILGVKT--NFGKF 078**

**5ldv\_A 101 IAGKQQLNIIWTDNGVDGLVGTGVKVVNNSIDGLTLAAFAVDSFMAAEQGSDLLGQSTYVGNGKNNNDSFKLDSIGNLYGAAAVGSYDLAGGQFNPQLWL 200**

**6ehd\_A 079 SFGKQWTT--SDDV--Y-G-AD---YSY-FFGGTGLR--Y-G---TLSDA-----------------------LHDSQ----VKYVY--EADSFWVKAGY 133**

**5ldv\_A 201 AYWDQ--VAFFYAVDAAYSTTIFDGINWTLEGAYLGNSLDSELD--------DKKTYANGNLFALKGSIEVNGWDASLGGLYYGDKEKASTVVIEDQGNL 290**

**6ehd\_A 134 GFPEDNAKQELAELYVGATF--G-DLAVHAGGGQNRDKAFKVGSNTVGTTTTDIKADVTNSYFEVTGEYTIGDALIGVTYYNAELD-----------V-- 217**

**5ldv\_A 291 GSLLAGEEIFYTTGSRLNGDTGRNIFGYVTGGYTFNETVRVGADFVYGGTKTEATTHLGGGKKLEAVARVDYKYSPKLNFSAFYSYVNLDQGVNT----- 385**

**6ehd\_A 218 ----EN-----------NPLVIDEDAISVAGTYKVADKTKLYAGYEYVMQEANT---GADEDGTLVYLGVEYKFASWARVYAEYGYGDGTTLGYTNKGSD 299**

**5ldv\_A 386 -----NESADHSTVRLQALYKF 402**

**6ehd\_A 300 AEVKATKVDSANNFGIGARYYW 321**