1. **PEL C**

45/353\*100 = 12.747 %

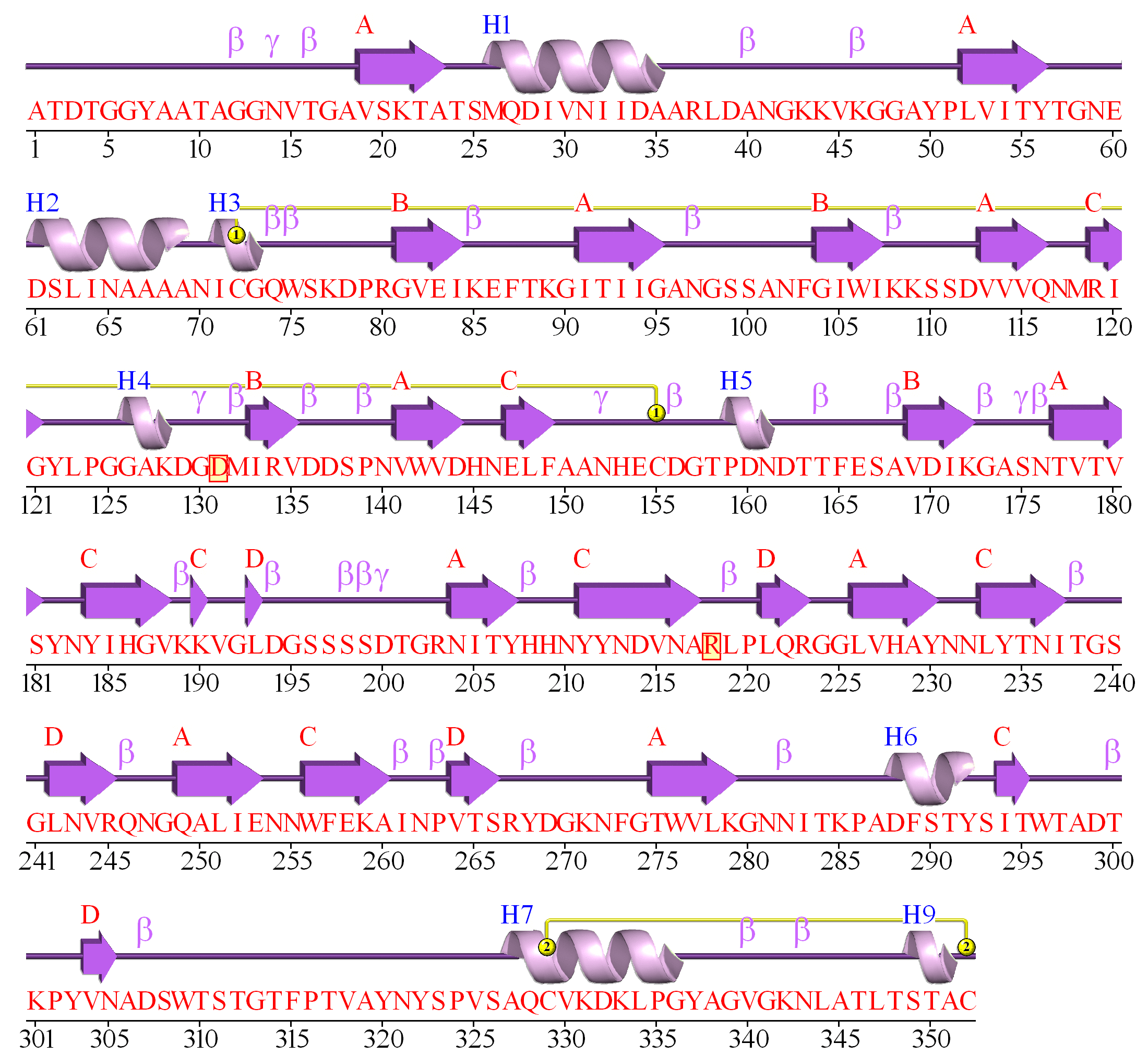
RMSD =    0.311 (2331 to 2331 atoms)

**NATIVE**

ATDTGGYAATAGGNVTGAVSKTATSMQDIVNIIDAARLDANGKKVKGGAYPLVITYTGNEDSLINAAAANICGQWSKDPRGVEIKEFTKGITIIGANGSSANFGIWIKKSSDVVVQNMRIGYLPGGAKDGDMIRVDDSPNVWVDHNELFAANHECDGTPDNDTTFESAVDIKGASNTVTVSYNYIHGVKKVGLDGSSSSDTGRNITYHHNYYNDVNARLPLQRGGLVHAYNNLYTNITGSGLNVRQNGQALIENNWFEKAINPVTSRYDGKNFGTWVLKGNNITKPADFSTYSITWTADTKPYVNADSWTSTGTFPTVAYNYSPVSAQCVKDKLPGYAGVGKNLATLTSTACK

**QTY VARIANT**

ATDTGGYAATAGGNVTGA**T**SKTATSMQDIVNIIDAARLDANGKKVKGGAYP**QTT**TYTGNEDSLINAAAANICGQWSKDPRG**T**E**T**KEFTKG**T**T**TT**GANGSSANFG**T**W**T**KKSSD**TTT**QNMR**T**GYLPGGAKDGDM**T**R**T**DDSPN**T**W**T**DHNE**QY**AANHECDGTPDNDTTFESA**T**D**T**KGASNT**T**T**T**SYNY**T**HG**T**KKVG**Q**DGSSSSDTGRN**T**TYHHNYYND**T**NARLP**Q**QRGG**QT**HAYNN**Q**YTN**T**TGSG**Q**N**T**RQNGQA**QT**ENNW**Y**EKAINP**T**TSRYDGKNFGTW**TQ**KGNNITKPADFSTYS**T**TWTADTKPY**T**NADSWTSTGTFPTVAYNYSPVSAQCVKDKLPGYAGVGKNLATLTSTACK



1. **PEL A**

51/361\*100 = 14.127 %

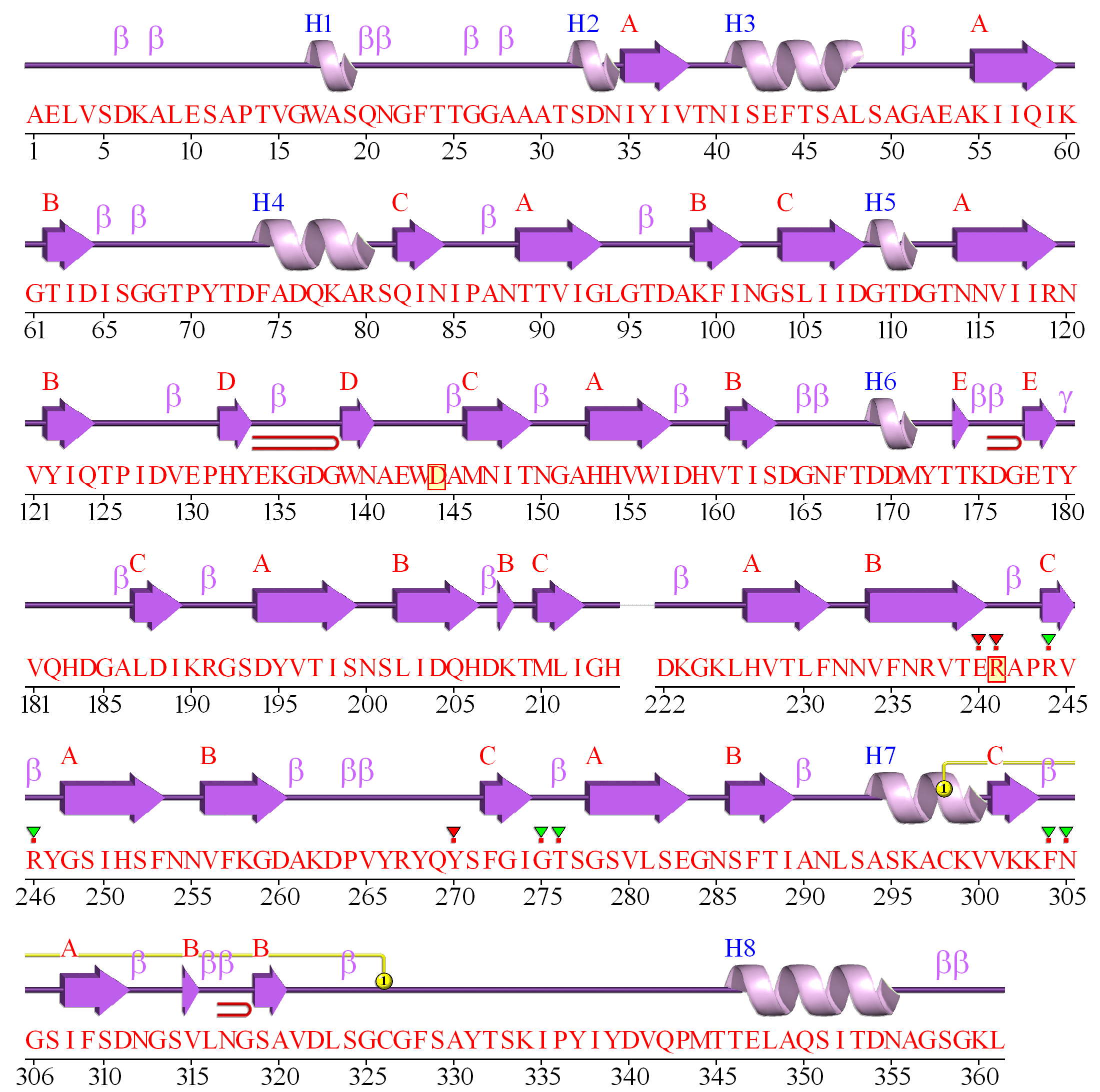
RMSD =    0.357 (2283 to 2283 atoms)

**NATIVE**

AELVSDKALESAPTVGWASQNGFTTGGAAATSDNIYIVTNISEFTSALSAGAEAKIIQIKGTIDISGGTPYTDFADQKARSQINIPANTTVIGLGTDAKFINGSLIIDGTDGTNNVIIRNVYIQTPIDVEPHYEKGDGWNAEWDAMNITNGAHHVWIDHVTISDGNFTDDMYTTKDGETYVQHDGALDIKRGSDYVTISNSLIDQHDKTMLIGHNDTNSAQDKGKLHVTLFNNVFNRVTERAPRVRYGSIHSFNNVFKGDAKDPVYRYQYSFGIGTSGSVLSEGNSFTIANLSASKACKVVKKFNGSIFSDNGSVLNGSAVDLSGCGFSAYTSKIPYIYDVQPMTTELAQSITDNAGSGKL

**QTY VARIANT**

AELVSDKALESAPTVGWASQNGFTTGGAAATSDN**T**Y**TT**TNISEFTSALSAGAEAK**TT**Q**T**KGT**T**DISGGTPYTDFADQKARSQ**T**NIPANTT**TT**GLGTDAK**YT**NGS**QTT**DGTDGTNN**TTT**RNVY**T**QTPIDVEPHYEKGDGWNAEWDAMN**T**TNGAHH**T**W**T**DHVT**T**SDGNFTDDMYTTKDGETYVQHDGA**Q**D**T**KRGSDY**T**T**T**SNS**QT**DQHDKTM**QT**GHNDTNSAQDKGKLH**T**T**QY**NN**TY**NR**T**TERAPR**T**RYGS**T**HS**Y**NN**TY**KGDAKDPVYRYQYS**Y**G**T**GTSGS**TQ**SEGNS**Y**T**T**ANLSASKACKV**T**KKFNGS**TY**SDNGS**T**LNGSAVDLSGCGFSAYTSKIPYIYDVQPMTTELAQSITDNAGSGKL



**3. IBP**

41/241\*100 = 17.012 %

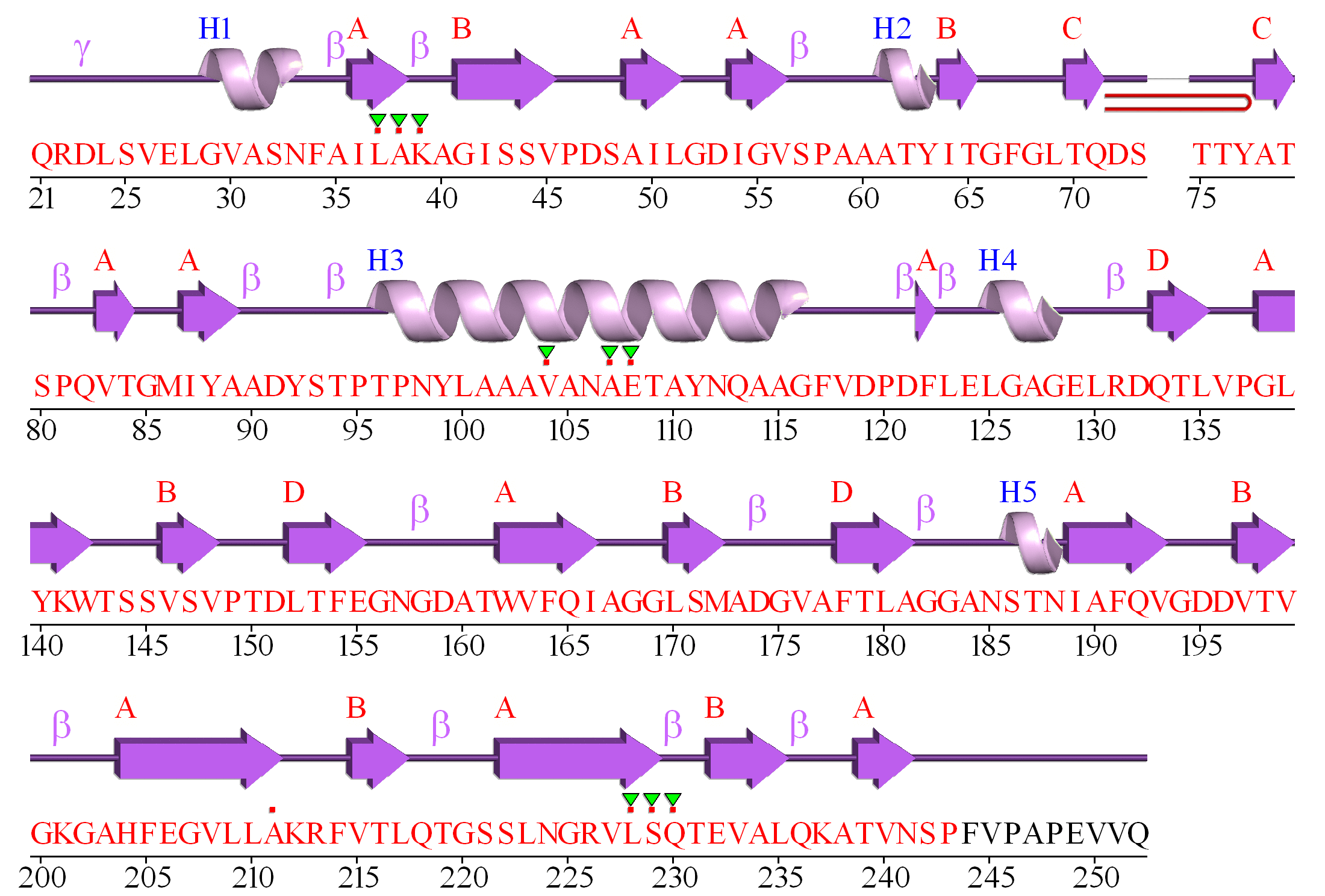
RMSD =    0.421 (1404 to 1404 atoms)

**NATIVE**

QRDLSVELGVASNFAILAKAGISSVPDSAILGDIGVSPAAATYITGFGLTQDSSTTYATSPQVTGMIYAADYSTPTPNYLAAAVANAETAYNQAAGFVDPDFLELGAGELRDQTLVPGLYKWTSSVSVPTDLTFEGNGDATWVFQIAGGLSMADGVAFTLAGGANSTNIAFQVGDDVTVGKGAHFEGVLLAKRFVTLQTGSSLNGRVLSQTEVALQKATVNSPFVPAPEVVQKRSNARQWL

**QTY VARIANT**

QRDLSVELGVASNFA**TQ**AKAG**T**SS**T**PDSA**TQ**GD**T**G**T**SPAAATY**T**TGFGLTQDSSTTYATSPQ**T**TGM**T**YAADYSTPTPNYLAAAVANAETAYNQAAGFVDPD**Y**LELGAGELRDQT**Q**VPG**Q**YKWTSS**T**S**V**PTD**Q**T**Y**EGNGDATW**TY**Q**T**AGG**Q**SMADGVA**Y**T**Q**AGGANSTN**T**A**Y**Q**T**GDD**T**T**T**GKGAH**Y**EG**TQQ**AKRF**T**T**Q**QTGSS**Q**NGR**TQ**SQTE**T**A**Q**QKAT**T**NSPFVPAPEVVQKRSNARQWL



**4. FUSION PROTEIN (Fibritin)**

21/139\*100 = 15.1079 %

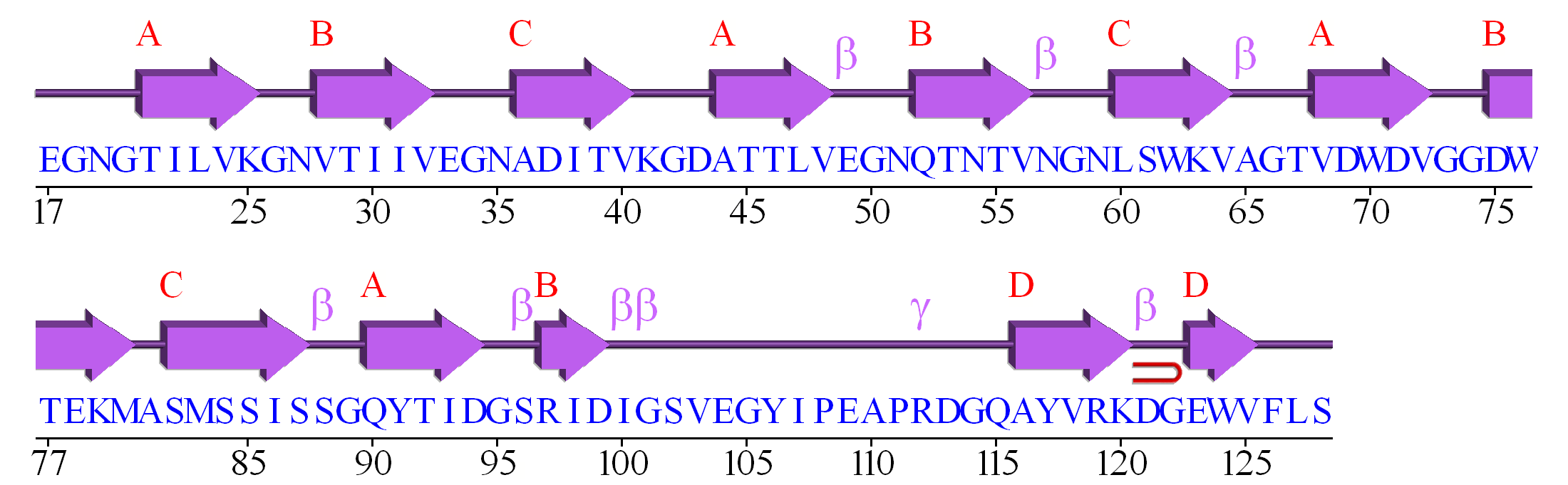
RMSD =    0.972 (840 to 840 atoms)

**NATIVE**

GSMAISDPPNSSSVPLEGNGTILVKGNVTIIVEGNADITVKGDATTLVEGNQTNTVNGNLSWKVAGTVDWDVGGDWTEKMASMSSISSGQYTIDGSRIDIGSVEGYIPEAPRDGQAYVRKDGEWVFLSTFLVEHHHHHH

**QTY VARIANT**

GSMAISDPPNSSSVPLEGNGT**TQT**KGN**T**T**TTT**EGNAD**T**T**T**KGDATT**QT**EGNQTNT**T**NGN**Q**SWK**T**AGT**T**DWD**T**GGDWTEKMASMSS**T**SSGQYT**T**DGSR**T**DIGSVEGYIPEAPRDGQAY**T**RKDGEW**T**FLSTFLVEHHHHHH



**5. Cthe\_2159**

RMSD =    0.415 (1677 to 1677 atoms)

56/313\*100= 17.891 %

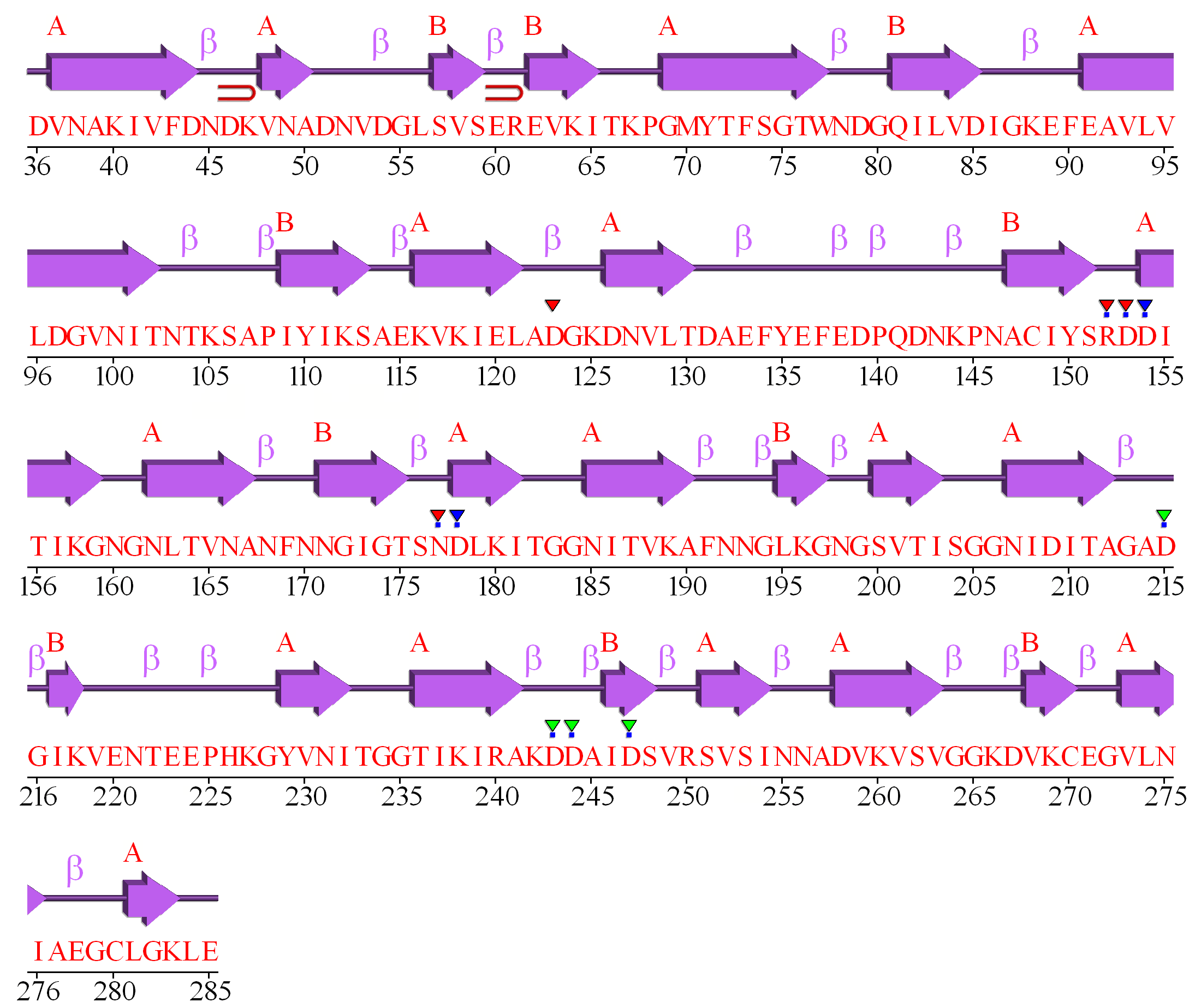
**NATIVE**

MGAHAVSIKKLILAASILTTLALTGCGGKGAVQPSGVSTGDVNAKIVFDNDKVNADNVDGLSVSEREVKITKPGMYTFSGTWNDGQILVDIGKEFEAVLVLDGVNITNTKSAPIYIKSAEKVKIELADGKDNVLTDAEFYEFEDPQDNKPNACIYSRDDITIKGNGNLTVNANFNNGIGTSNDLKITGGNITVKAFNNGLKGNGSVTISGGNIDITAGADGIKVENTEEPHKGYVNITGGTIKIRAKDDAIDSVRSVSINNADVKVSVGGKDVKCEGVLNIAEGCLGKLEEASGKPIPNPLLGLDSTHHHHHH

**QTY VARIANT**

MGAHAVSIKKLILAASILTTLALTGCGGKGAVQPSGVSTGD**T**NAK**TTY**DNDK**T**NADNVDGLS**T**SERE**T**K**T**TKPGMYT**Y**SGTWNDGQ**TQT**DIGKEFEA**TQTQ**DG**T**N**T**TNTKSAP**T**Y**T**KSAEK**T**K**T**E**Q**ADGKDN**TQ**TDAEFYEFEDPQDNKPNAC**T**YSRDD**T**T**T**KGNGN**Q**T**T**NANFNNG**T**GTSND**Q**K**T**TGGN**T**T**T**KAFNNG**Q**KGNGS**T**T**T**SGGN**T**D**T**TAGADG**T**KVENTEEPHKGY**T**N**T**TGGT**T**K**T**RAKDDA**T**DSVRS**T**S**T**NNAD**T**K**T**S**T**GGKD**T**KCEG**TQ**N**T**AEGC**Q**GKLEEASGKPIPNPLLGLDSTHHHHHH

**WIRING DIAGRAM**

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