1. **PEL A**

RMSD =    0.446**Å 52/ 292 \*100= 17.8%**

RMSD =    0.469**Å (WITH L CONVERSION) 53/ 292 \*100 = 18.15%**

**NATIVE**

TSDNIYIVTNISEFTSALSAGAEAKIIQIKGTIDISGGTPYTDFADQKARSQINIPANTTVIG**L**GTDAKFINGSLIIDGTDGTNNVIIRNVYIQTPIDVEPHYEKGDGWNAEWDAMNITNGAHHVWIDHVTISDGNFTDDMYTTKDGETYVQHDGALDIKRGSDYVTISNSLIDQHDKTMLIGHNDTNSAQDKGKLHVTLFNNVFNRVTERAPRVRYGSIHSFNNVFKGDAKDPVYRYQYSFGIGTSGSVLSEGNSFTIANLSASKACKVVKKFNGSIFSDNGSVLNGSAVD

**QTY VARIANT**

TSDN**T**Y**TT**TNISEFTSALSAGAEAK**TT**Q**T**KGT**T**DISGGTPYTDFADQKARSQ**T**NIPANTT**TT**G**Q**GTDAK**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**LNGSAVD

1. **IBP**

RMSD =    0.367**Å**

**41/210\*100= 19.52%**

**NATIVE**

FAILAKAGISSVPDSAILGDIGVSPAAATYITGFGLTQDSSTTYATSPQVTGMIYAADYSTPTPNYLAAAVANAETAYNQAAGFVDPDFLELGAGELRDQTLVPGLYKWTSSVSVPTDLTFEGNGDATWVFQIAGGLSMADGVAFTLAGGANSTNIAFQVGDDVTVGKGAHFEGVLLAKRFVTLQTGSSLNGRVLSQTEVALQKATVNSP

**QTY VARIANT**

FA**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**T**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**NSP

1. **PEL C**

RMSD =    0.330**Å**

**45/291\*100= 15.46%**

**NATIVE**

GAVSKTATSMQDIVNIIDAARLDANGKKVKGGAYPLVITYTGNEDSLINAAAANICGQWSKDPRGVEIKEFTKGITIIGANGSSANFGIWIKKSSDVVVQNMRIGYLPGGAKDGDMIRVDDSPNVWVDHNELFAANHECDGTPDNDTTFESAVDIKGASNTVTVSYNYIHGVKKVGLDGSSSSDTGRNITYHHNYYNDVNARLPLQRGGLVHAYNNLYTNITGSGLNVRQNGQALIENNWFEKAINPVTSRYDGKNFGTWVLKGNNITKPADFSTYSITWTADTKPYVNAD

**QTY VARIANT**

GA**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**NAD

1. **Cthe\_2159**

RMSD =    0.401**Å**

**56/250\*100= 22.4%**

**NATIVE**

DVNAKIVFDNDKVNADNVDGLSVSEREVKITKPGMYTFSGTWNDGQILVDIGKEFEAVLVLDGVNITNTKSAPIYIKSAEKVKIELADGKDNVLTDAEFYEFEDPQDNKPNACIYSRDDITIKGNGNLTVNANFNNGIGTSNDLKITGGNITVKAFNNGLKGNGSVTISGGNIDITAGADGIKVENTEEPHKGYVNITGGTIKIRAKDDAIDSVRSVSINNADVKVSVGGKDVKCEGVLNIAEGCLGKLE

**QTY**

**DT**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**GKLE