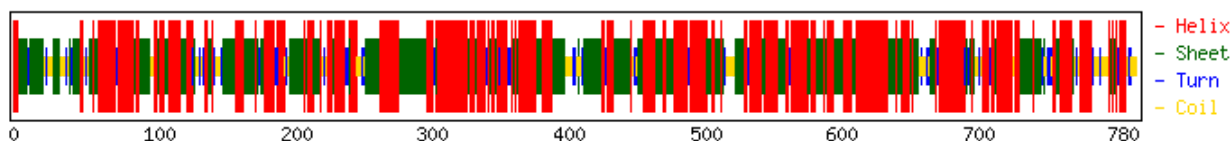


## Mail

|             |            |             |            |            |            |            |
|-------------|------------|-------------|------------|------------|------------|------------|
| <u>10</u>   | <u>20</u>  | <u>30</u>   | <u>40</u>  | <u>50</u>  | <u>60</u>  | <u>70</u>  |
| MAPALSRSLY  | TSPLTSVPIT | PVSSRSLHLR  | SSFLPHGGAL | RTGVSCSWNL | EKRCNRFAVK | CDAVAEKET  |
| <u>80</u>   | <u>90</u>  | <u>100</u>  | <u>110</u> | <u>120</u> | <u>130</u> | <u>140</u> |
| TEEGSGEKEF  | YQAEVSRLLD | LIVHSLSYSHK | EVFLRELVSN | ASDALDKLRF | LSVTEPSLLG | DGGDLEIRIK |
| <u>150</u>  | <u>160</u> | <u>170</u>  | <u>180</u> | <u>190</u> | <u>200</u> | <u>210</u> |
| PDPDNGTITI  | TDTGIGMTKE | ELIDCLGTIA  | QSGTSKFLKA | LKENKDLGAD | NGLIGQFGVG | FYSAFLVAEK |
| <u>220</u>  | <u>230</u> | <u>240</u>  | <u>250</u> | <u>260</u> | <u>270</u> | <u>280</u> |
| VVSTKSPKS   | DKQYVWESVA | DSSSYLIREE  | TDPDNILRRG | TQITLYLRED | DKYEFAESTR | IKNLVKNYSQ |
| <u>290</u>  | <u>300</u> | <u>310</u>  | <u>320</u> | <u>330</u> | <u>340</u> | <u>350</u> |
| FVGFPITYWQ  | EKSRTIEVEE | DEPVKEGEEG  | EPKKKKTTKT | EKYWDWELAN | ETKPLWMRNS | KEVEKGEYNE |
| <u>360</u>  | <u>370</u> | <u>380</u>  | <u>390</u> | <u>400</u> | <u>410</u> | <u>420</u> |
| FYKKAFLNEFL | DPLAHTHTTT | EGEVEFRSIL  | YIPGMGPLNN | EDVTNPKTKN | IRLYVKRVFI | SDDFDGELFP |
| <u>430</u>  | <u>440</u> | <u>450</u>  | <u>460</u> | <u>470</u> | <u>480</u> | <u>490</u> |
| RYLSFVKGVV  | DSDDLPLNVS | REILQESRIV  | RIMRKRLIRK | TFDMIQEISE | SENKEDYKKF | WENFGRFLKL |
| <u>500</u>  | <u>510</u> | <u>520</u>  | <u>530</u> | <u>540</u> | <u>550</u> | <u>560</u> |
| GCIEDTGNHK  | RITPLLRFFS | SKNEEELTSL  | DDYIENMGEN | QKAIYYLATD | SLKSAKSAPF | LEKLIQKDIE |
| <u>570</u>  | <u>580</u> | <u>590</u>  | <u>600</u> | <u>610</u> | <u>620</u> | <u>630</u> |
| VLYLVEPIDE  | VAIQNLQTYK | EKKFVDISKE  | DLELGDEDEV | KDREAKQEFN | LLCDWIKQQL | GDKVAKVQVS |
| <u>640</u>  | <u>650</u> | <u>660</u>  | <u>670</u> | <u>680</u> | <u>690</u> | <u>700</u> |
| NRLSSSPCVL  | VSGKFGWSAN | MERLMKAQAL  | GDTSSLEFMR | GRRILEINPD | HPIIKDLNAA | CKNAPESTEA |
| <u>710</u>  | <u>720</u> | <u>730</u>  | <u>740</u> | <u>750</u> | <u>760</u> | <u>770</u> |
| TRVVDLLYDT  | AISSSGFTPD | SPAELGNKIY  | EMMAMAVGGR | WGRVEEEEES | STVNEGDDKS | GETEVVEPSE |
| <u>780</u>  |            |             |            |            |            |            |
| VRAESDPWOD  |            |             |            |            |            |            |

[illegible]

|       |     |  |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              |      |     |    |     |
|-------|-----|--|------------|--|----------------------|------------|----------------------|----------------------|----------------------|--------------------------|--------------|------------|------------|--------------|--------------|------|-----|----|-----|
| Turns | 141 | T  | TT         |  |                      | T          |                      |                      | T                    | T                        |              | T          | T          |              | T            | 210  |     |    |     |
| Struc | 141 | TCCCTT   | EEEEEEEEEE | HHHHHHH  | EEEEEE               | HHH        | TEEE                 | HHHHHHHT             | HT                   | HHH                      | CT           | EEEEEEEEEE | HEE        | HHHH         | E            | 210  |     |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 211 | VVSTKSPKSDKQYVWESVADSSSYLIREETDPDNILRRGTQITLYLREDDKYEFAESTRIKNLVKNYSQ    |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 280  |     |    |     |
| Helix | 211 | HHHHH  |            | HHHHHHHHHHHHHHHHHHHH   |                      |            |                      |                      | HHHHHHHHHHHHHHHHHHHH |                          |              |            |            | H            |              | 280  |     |    |     |
| Sheet | 211 | EEEE   |            | EEEEEE   |                      | EE         |                      | EEEEEEEEEE           |                      |                          | EEEEEEEEEEEE |            |            |              |              | 280  |     |    |     |
| Turns | 211 |  | T          | T  |                      | TT         |                      | T                    | TT                   |                          | T            |            | T          | T            |              | 280  |     |    |     |
| Struc | 211 | EEEH   | CT         | CCHH   | EE                   | HHHHHHHT   | TH                   | EH                   | HHH                  | CC                       | CT           | CEET       | EEEEEE     | HHHHHHHHHHHH | HEEEEEEEEEEE | 280  |     |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 281 | FVGFPITYWQEKSRITIEVEEEDPVKEGEEGEPKKKTKTKTEKYWDWELANETKPLWMRNSKEVEKGEYNE  |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 350  |     |    |     |
| Helix | 281 | HH     |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 350  |     |    |     |
| Sheet | 281 | EEEEEEEE   |            | EEE  |                      |            |                      | EEEEEEEEEE           |                      | EEEE                     |              |            |            | EEE          |              | 350  |     |    |     |
| Turns | 281 |  |            | T  | TT                   |            | T                    | T                    |                      | T                        |              | T          |            | T            | T            | 350  |     |    |     |
| Struc | 281 | EEEEEE   | HHHHHT     | TH   | HHHHHHHHHHHHHHHHHHHH | HHHH       | EH                   | HHHHHH               | HT                   | TH                       | HE           | HT         | HHHH       | HT           | TEH          | 350  |     |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 351 | FYKKAFFNEFLDPLAHTHTTTEGEVEFRSILYIPGMGPLNNEVDTPNPKTKNIRLYVKRVFISDDFDGELFP |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 420  |     |    |     |
| Helix | 351 | HH     |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 420  |     |    |     |
| Sheet | 351 | E  |            | EEEEEEEEEEEEEEEE   |                      | EEEEEEEEEE |                      | E                    |                      | EEEEEEEEEEEEEEEEEEEEEEEE |              |            |            |              |              | 420  |     |    |     |
| Turns | 351 |  | T          |  |                      | T          |                      |                      | TT                   |                          | T            | T          |            |              | T            | 420  |     |    |     |
| Struc | 351 | HHHHHHHHHHHHHH   | EE         | HHHHHHHH   | EEEEEEEE             | CCCCCT     | CECC                 | TE                   | EEEEEEEEEEEE         | HH                       | TH           | HHH        | HEE        |              |              | 420  |     |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 421 | RYLSFVKGVVSDDDLPLNVSREILQESRIVRIMRKRLIRKTFDMIQEISESENKEDYKKFWENFGRFLKL   |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 490  |     |    |     |
| Helix | 421 | HHHHHHHHHH   |            | HH       |                      |            |                      |                      |                      |                          |              |            |            |              |              | 490  |     |    |     |
| Sheet | 421 | EEEEEEEE   |            | EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE                                 |                      |            |                      |                      |                      | EEEEEEEEEEEE             |              |            |            |              |              | 490  |     |    |     |
| Turns | 421 |  |            | TT   |                      | T          | TT                   |                      | T                    | T                        |              | T          |            | T            |              | 490  |     |    |     |
| Struc | 421 | EEEEEEEE   | HT         | CT   | CEEE                 | HHHHHHHH   | EEEE                 | HH                   | EEEE                 | HHHHHHHH                 | HT           | HHHHHH     | HHHH       | EEEE         | HE           | HEE  | 490 |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 491 | GCIEDTGNHKRITPLLRFFSSKNEEELTSLDDYIENMGENQKAIYYLATDSLKSAPFLEKLIQKDIE      |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 560  |     |    |     |
| Helix | 491 | HHH  |            | HH |                      |            |                      |                      |                      |                          |              |            |            |              |              | 560  |     |    |     |
| Sheet | 491 | EEEE   |            | EEEEEE   |                      | EEEEEEEEEE |                      | EEEEEE               |                      |                          |              | EEEEEEEEEE |            |              |              | 560  |     |    |     |
| Turns | 491 |  | T          |  |                      | T          | T                    |                      | T                    | T                        |              | T          |            |              | T            | 560  |     |    |     |
| Struc | 491 | HHH  | ET         | CCCC   | CEEEEE               | HT         | THHHH                | HE                   | HH                   | HHHHHH                   | EEEE         | HHHT       | HHHHHHHHHH | EE           | HHHH         | E    | 560 |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 561 | VLYLVEPIDEVAIQNLQTYKEKKFVDISKEDLELGDEDEVKDREAKQEFNLLCDWIKQQLGDKVAKVQVS   |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 630  |     |    |     |
| Helix | 561 | HH     |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 630  |     |    |     |
| Sheet | 561 | EEEEEEEEEEEEEEEE   |            | EEE  |                      |            |                      | EEEEEEEEEEEE         |                      | EEEEEE                   |              |            |            | EEEEEE       |              | 630  |     |    |     |
| Turns | 561 |  |            |  |                      | TT         |                      | TT                   |                      | T                        | T            |            | TT         |              | T            | 630  |     |    |     |
| Struc | 561 | EEEH   | HHHHH      | EEEE   | EE                   | HHHHHH     | HHHHHHHHHHHHHHHHHHHH | EEEE                 | HEEH                 | HHHH                     | HE           | EEEE       |            |              |              | 630  |     |    |     |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 631 | NRLSSSPCVLVSGKFGWSANMERLMKAQALGDTSSLEFMRGRRIEINPDHPIIKDLNAACKNAPESTEA    |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 700  |     |    |     |
| Helix | 631 |  |            | HHHHHHHHHHHHHHHHHHHHHH   |                      | HH         |                      | HHHHHHHHHHHHHHHHHHHH |                      | HHHH                     |              |            |            |              |              | 700  |     |    |     |
| Sheet | 631 |  | EEE        |  | EEEEEEEE             |            | EEEEEE               |                      | EEE                  |                          | EEEEEE       |            |            | EEE          |              | 700  |     |    |     |
| Turns | 631 | T  | TT         |  | T                    |            | T                    | T                    |                      | TT                       |              | T          |            |              | T            | 700  |     |    |     |
| Struc | 631 | TCCCTT   | CEEE       | HHT  | HHHHHHHHHHHHHHHHHH   | TE         | TH                   | EE                   | CC                   | TT                       | CH           | HHHH       | HT         | HH           | HHHHHHHHHH   | CT   | HH  | HE | 700 |
|       |     |  |            | *  |                      | *          |                      | *                    |                      | *                        |              | *          |            | *            |              |      |     |    |     |
| Query | 701 | TRVVDLLYDTAIISGFTPDSPAELGNKIYEMMAVGGRWGRVEEEESSTVNEGDDKSGETEVVEPSE       |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 770  |     |    |     |
| Helix | 701 | HHHHHHHHHH   |            | HHHHHHHHHHHH   |                      | HHHHHHHH   |                      | HHHHHHHHHH           |                      | HHHHHHHH                 |              |            |            |              |              | 770  |     |    |     |
| Sheet | 701 | EEEEEEEEEEEEEEEE   |            | EEEEEEEEEEEE   |                      |            |                      |                      |                      |                          | EEE          |            |            |              |              | 770  |     |    |     |
| Turns | 701 |  |            | T  | TTT                  |            | T                    |                      | T                    |                          | T            | T          |            | T            | TT           | 770  |     |    |     |
| Struc | 701 | EEEEEEEE   | HEEEEE     | TE   | CTT                  | CH         | HEE                  | HHHHHH               | HE                   | CT                       | CHHHHHHH     | HT         | CCCC       | CCCC         | CHHE         | HHTH | 770 |    |     |
|       |     |  |            | *  |                      |            |                      |                      |                      |                          |              |            |            |              |              |      |     |    |     |
| Query | 771 | VRAESDPWQD   |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 780  |     |    |     |
| Helix | 771 | HHH  |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 780  |     |    |     |
| Sheet | 771 |  |            |  |                      |            |                      |                      |                      |                          |              |            |            |              |              | 780  |     |    |     |
| Turns | 771 |  |            | TT   |                      |            |                      |                      |                      |                          |              |            |            |              |              | 780  |     |    |     |
| Struc | 771 | HHH  | CT         | CCCC   |                      |            |                      |                      |                      |                          |              |            |            |              |              | 780  |     |    |     |

Total Residues: H: 593 E: 452 T: 110  
Percent: H: 76.0 E: 57.9 T: 14.1