A

```
                                   14        28                  54
Nm H44/76 PilE    1  FTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGEWPKN  60
Nm HT1125 PilE    1  FTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGIWPAN  60
Ng MS11   PilE    1  FTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGKWPEN  60
Nl        PilE    1  FTLIELMIVIAIVGILAAVALPAYQDYTARAQMSEALTLAEGQKAAVVEYYSDNGTFPAQ  60
                     α1-N                                α1-C

                   61  NTSAGVATSA-NIKGKYVEKVEVK----NGVVTATMLSSGVNKEIQGKKLSLWAKRQDGS 115
                   61  NNSAGVASTATDIKGKYVQSVTVA----NGVVTAQMASSNVNNEIKGKKLSLWAKRQDGS 116
Nm H44/76 PilE     61  NTSAGVASPPSDIKGKYVKEVEVK----NGVVTATMLSSGVNNEIKGKKLSLWARRENGS 116
Nm HT1125 PilE     61  NASAGIATAS-AITGKYVAKVEVTGDATSATITSTMKSSGVNNDIKGKTLVLVGKQNSGS 119
Ng MS11   PilE         αβ-loop
Nl        PilE

Nm H44/76 PilE    116  VKWFCGQPVTRTDAKADTVAAAAKTADNINTKHLPSTCRDASDAS 160
Nm HT1125 PilE    117  VKWFCGQPVTRKANNADDVAADG--TANINTKHLPSTCRDTSATA 159
Ng MS11   PilE    117  VKWFCGQPVTRTD---DDTVADAKDGKEIDTKHLPSTCRDNFDAK 158
Nl        PilE    120  FSWECKKGTVDD-------------------KFLPS-CR----AK 141
                       D-region
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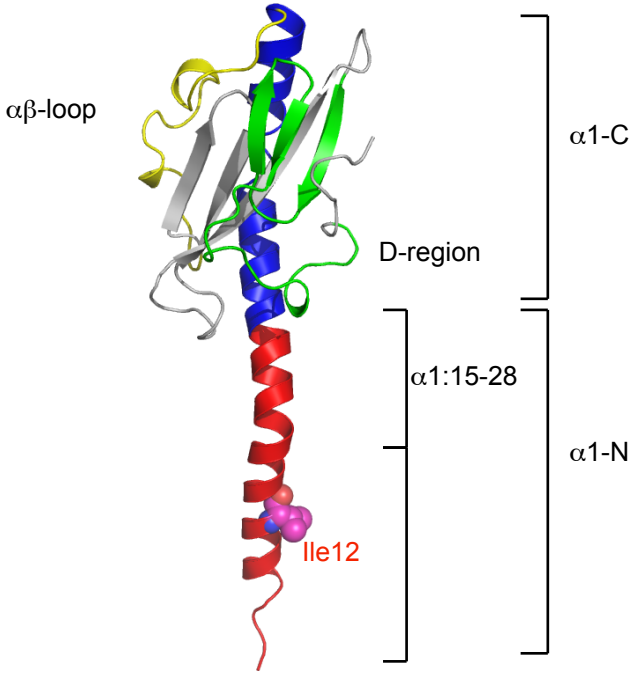
B