A dna structure with blue and pink lines

Description automatically generatedA dna model with colorful strands

Description automatically generated with medium confidenceA black and gold outline of a map

Description automatically generated

**C**

**B**

**A**

Figure 2: (a) Alphafold structure of Pannier, (b) 3VD6 structure and (c) superimposed structures of 3VD6 and Pannier.

CLUSTAL O(1.2.4) multiple sequence alignment

BBD96102.1 MFHTGAGGNGYGDGNAGFHQHLQQSPVYVPSSRAVPHQYSPAAGTHFGAAAHQGGWAHAG 60

3VD6\_3|Chain ------------------------------------------------------------ 0

BBD96102.1 GSYGDMASQAHGLGGAAHASPLSAGQFYTQNMVMSSWRAYDGSGFQRTSPYESAMEFQFG 120

3VD6\_3|Chain ------------------------------------------------------------ 0

BBD96102.1 EGRECVNCGAISTPLWRRDGTGHYLCNACGLYHKMNGMNRPLIKPSKRLTATRRLGLCCT 180

3VD6\_3|Chain EARECVNCGATATPLWRRDRTGHYLCNACGLYHKMNGQNRPLIRPKKRMIVSKRAGTQCT 60

\*.\*\*\*\*\*\*\*\* :\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*:\*.\*\*: .::\* \* \*\*

BBD96102.1 NCGTRTTTLWRRNNDGEPVCNACGLYFKLHGVNRPLAMRKDGIQTRKRKPKKQGGGSGER 240

3VD6\_3|Chain NCQTTTTTLWRRNASGDPVCNACGLYFKLHQVNRPLTMRKDGIQTRNRKASGKGKKKRG- 119

\*\* \* \*\*\*\*\*\*\*\* .\*:\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*:\*\*\*\*\*\*\*\*\*:\*\* . :\* .

BBD96102.1 DDSSSTSVEDGKTPVSISNQQQHSNQQVPSSSQNHPNHQHSPDNKVTQTLERPYLSPASL 300

3VD6\_3|Chain ------------------------------------------------------------ 119

BBD96102.1 LPSSSSLVKSEPGYDYSCLQNQGYPYQQIFGFPGAGPTNPELAYHHQHHVTASAKLMATT 360

3VD6\_3|Chain ------------------------------------------------------------ 119

Figure 3: Alignment of Pannier and 3VD6 in CLUSTAL format with base/residue numbering.

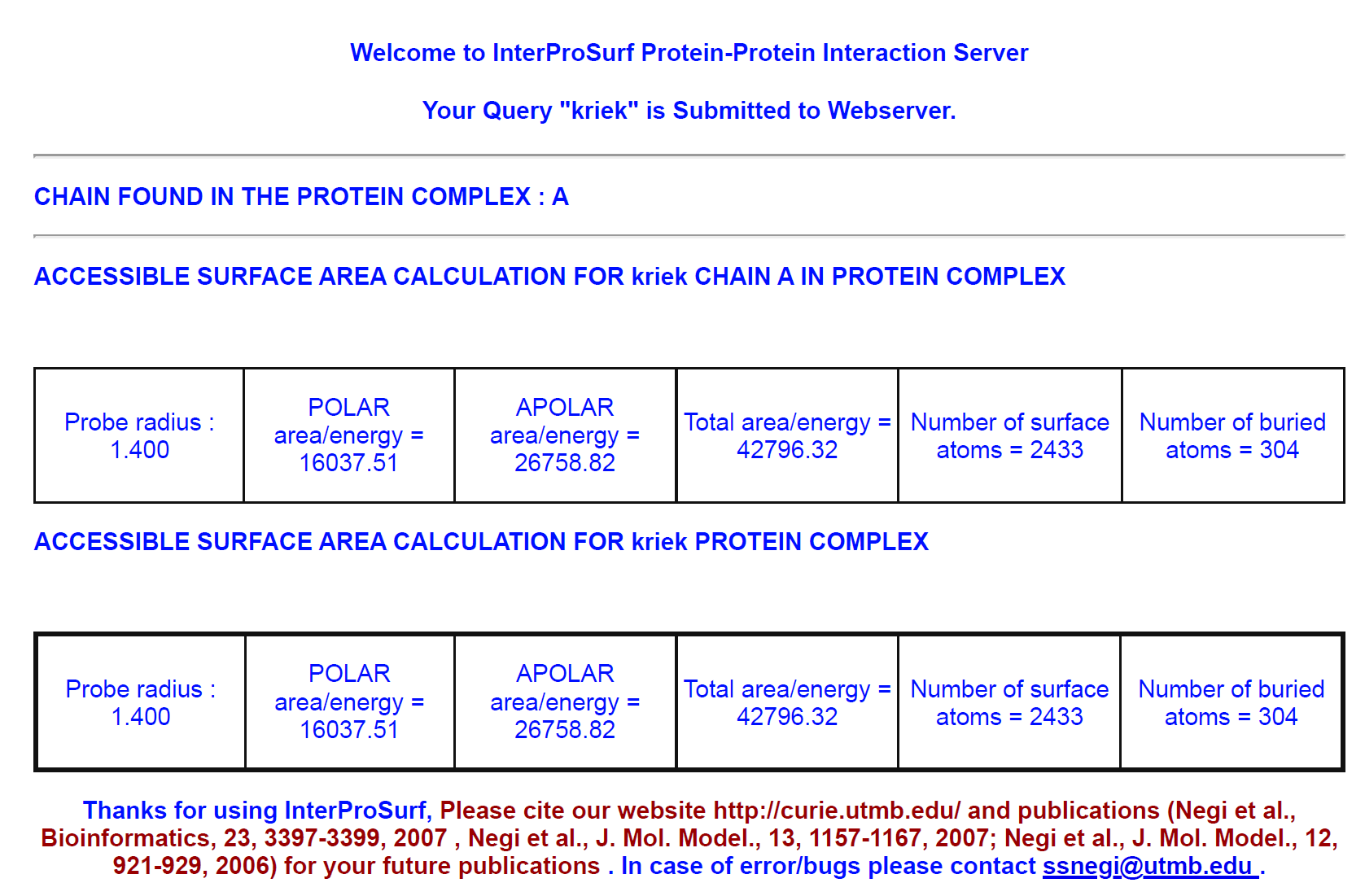


Figure 4: Possible protein-protein interaction sites on the Pannier protein, determined using InterProSurf .