

Table S1. The datasets for different amino acid types

| Amino Acid Type | Number of ESRM | Number of EIRM | Number of Interface Residues | Number of Surface Residues | Percentage (%) | Mean Percentage (%) |
|-----------------|----------------|----------------|------------------------------|----------------------------|----------------|---------------------|
| TRP | 110 | 45 | 71 | 213 | 33.3 | 51.8 |
| CYS | 104 | 37 | 70 | 220 | 31.8 | 41.8 |
| HIS | 124 | 71 | 108 | 399 | 27.1 | 40.9 |
| TYR | 131 | 95 | 201 | 834 | 24.1 | 35.4 |
| MET | 114 | 49 | 66 | 277 | 23.8 | 39.1 |
| GLN | 130 | 91 | 172 | 845 | 20.4 | 27 |
| ARG | 132 | 97 | 219 | 1104 | 19.8 | 30.8 |
| ASN | 132 | 92 | 216 | 1094 | 19.7 | 28 |
| PHE | 129 | 80 | 132 | 680 | 19.4 | 29.6 |
| ASP | 134 | 101 | 220 | 1298 | 16.9 | 22.2 |
| THR | 134 | 107 | 244 | 1441 | 16.9 | 22.7 |
| PRO | 132 | 91 | 175 | 1049 | 16.7 | 23.4 |
| GLY | 134 | 92 | 225 | 1360 | 16.5 | 22.2 |
| GLU | 134 | 105 | 261 | 1613 | 16.2 | 21.9 |
| VAL | 132 | 95 | 186 | 1162 | 16 | 23.8 |
| SER | 134 | 107 | 267 | 1683 | 15.9 | 20.8 |
| LYS | 132 | 98 | 213 | 1446 | 14.7 | 20.5 |
| ALA | 133 | 92 | 171 | 1245 | 13.7 | 22.4 |
| LEU | 132 | 102 | 223 | 1637 | 13.6 | 19.5 |
| ILE | 129 | 86 | 135 | 1046 | 12.9 | 23.3 |

The data information in this table incorporate the number of Existing-Surface-Residue-Monomers (ESRM), Existing-Interface-Residue-Monomers (EIRM), interface residues of EIRM, surface residues of EIRM, the percentage of interface residues among surface residues for different amino acid type.