**Supplementary File 6:** List of interactions involving the dimer interface.

|  |  |  |
| --- | --- | --- |
| Source atoms | Target atoms | Distance (Å) |
|  Leu 5A CG  Leu 5A CD1  Leu 8A CG  Leu 8A CD2  Val 9A CA  Val 9A C  Val 9A O  Val 9A CG1  Val 9A CG2  Leu 12A C  Leu 12A CB  Leu 12A CD1  Ala 13A N  Ala 13A CA  Ala 13A C  Ala 13A O  Ala 13A CB  Val 14A N  Val 14A CA  Val 14A C  Val 14A O  Gly 17A N  Gly 17A CA  Gly 17A C  Gly 17A O  Val 18A N  Val 18A CG2  Phe 21A CE1  Phe 21A CZ  Phe 21A CE2  Phe 21A CD2  Val 22A CG2  Thr 25A CB  Thr 25A OG1  Thr 25A CG2  Ser 29A O Ser 29A CA  Ser 29A CB  Ser 29A OG  Ser 29A CA  Ser 29A CB  Ser 29A OG  Thr 32A CB  Thr 32A CG2  Val 33A CB  Val 33A CG1  Val 33A CG2  Val 33A O  Leu 37A CG  Leu 37A CD1  Leu 37A CD2  | Val 9B CG2Val 9B CG2Val 9B CG1Val 9B CG1Val 9B CG2Ala 13B CBAla 13B CBAla 13B CAAla 13B CBLeu 12B CLeu 12B OAla 13B NAla 13B CAAla 13B CBLeu 12B CBAla 16B CBVal 9B OLeu 12B CBVal 9B CAVal 9B CG1Ala 13B CBAla 13B CBAla 13B CBLeu 10B CD2Val 9B CG1Ala 13B CBAla 13B OGly 17B CAAla 13B CAla 13B OPhe 21B CE2Phe 21B CD2Phe 21B CE2Phe 21B CZGly 17B CAAla 16B CGly 17B NGly 17B CAAla 13B CAla 13B OAla 16B CBPhe 21B CE2Phe 21B CE2Phe 21B CZPhe 21B CE2Phe 21B CZPhe 21B CE2Phe 21B CZPhe 21B CD2Phe 21B CE2Phe 21B CGPhe 21B CD2Phe 21B CD1Phe 21B CE2Phe 21B CZPhe 21B CE1Phe 21B CGPhe 21B CD2Phe 21B CD1Phe 21B CE2Phe 21B CZPhe 21B CE1Phe 21B CD1Phe 21B CE1Phe 21B CE2Phe 21B CZPhe 21B CE1Phe 21B CZPhe 21B CE1Val 22B CG2Val 22B CAVal 22B CBThr 25B OG1Val 22B CG2Val 22B CAVal 22B CBPhe 21B CPhe 21B OVal 22B NThr 25B CBThr 25B OG1Thr 25B CG2Val 22B CG2Phe 21B CPhe 21B OVal 22B NThr 25B CBThr 25B OG1Thr 25B CG2Val 22B CG2Phe 21B CBThr 25B CG2Phe 21B CD1Phe 21B CE1Thr 25B CBThr 25B OG1Thr 25B CBThr 25B OG1Thr 25B CG2Thr 25B CBThr 25B OG1Val 33B CG2Val 33B CG2Val 33B CG2Thr 32B CG2Ser 29B CBThr 32B CBSer 29B CASer 29B CBSer 29B OGSer 29B CSer 29B OThr 32B CBVal 33B CG2Val 33B CG2Thr 32B CG2Ser 29B CBThr 32B CBThr 32B CG2Thr 32B CBVal 33B CG2Val 33B CG1Val 33B CG2Gly 36B CAGly 36B OLeu 37B NGly 36B CAGly 36B CVal 33B CVal 33B OLeu 37B NGly 36B CAGly 36B CThr 32B CVal 33B NVal 33B CAVal 33B CBVal 33B CG1Val 33B CG2Thr 32B OLeu 37B CD2Leu 37B CD2Gly 36B OArg 83B NH2Leu 37B CD2Leu 37B OLeu 37B CALeu 37B C | 3.95 4.49 3.87 3.89 4.43 4.42 4.45 3.97 3.66 4.09 4.10 3.94 3.80 4.38 4.41 4.17 3.88 4.33 4.45 4.13 4.41 3.76 4.48 3.62 3.84 4.17 4.44 \* 4.43 4.46 3.72 4.14 3.84 3.42 4.45 4.24 4.38 3.86 4.02 4.38 3.51 4.17 4.27 3.66 4.06 4.13 4.29 3.78 3.63 4.27 4.07 3.77 3.54 3.97 3.52 3.75 3.96 4.43 4.45 4.13 4.19 3.89 3.86 4.33 4.25 4.29 3.78 4.00 4.15 4.47 4.38 4.23 4.42 3.95 3.69 3.68 4.28 4.02 3.93 3.93 4.15 3.03 4.24 3.75 4.23 4.28 4.36 4.44 3.69 4.08 4.48 3.90 3.87 3.68 3.74 4.46 4.31 3.88 4.16 \* 4.43 4.33 3.78 3.97 4.26 4.27 3.75 4.43 4.13 3.64 3.15 3.55 \* 4.29 4.09 \* 4.45 4.26 4.25 3.77 4.40 4.13 3.52 4.13 4.16 4.05 3.93 4.45 3.58 3.90 3.66 3.46 4.18 3.81 4.35 3.95 4.32 4.47 4.37 3.58 4.29 4.38 4.27 3.90 4.16 4.16 3.97 4.06 4.13 3.79 4.26 4.44  |

#The cut-off value is 4.5 Å (includes van der Waals interaction).

All contacts are part of the N-terminal TM-JM helix.