

Table S1: Hydrogen bonding interactions between T-Cytotoxic cell specific epitopes and HLA-B*4402 during docking simulation

| Sl. No | PEICWEGVY | HLA-B*4402 | Bond length (Å) |
|--------|-----------|------------|-----------------|
| 1. | 2 GLU | 21 ARG | 2.72 |
| 2. | 4 CYS | 27 TYR | 2.77 |
| 3. | 9 TYR | 31 THR | 2.76 |
| 4. | 2 GLU | 35 ARG | 2.87 |
| 5. | 6 GLU | 234 ARG | 3.06 |
| | AMDEGYFAY | HLA-B*4402 | Bond length (Å) |
| 1. | 4 GLU | 21 ARG | 2.80 |
| 2. | 2 MET | 27 TYR | 2.84 |
| 3. | 4 GLU | 35 ARG | 2.80 |
| 4. | 3 ASP | 48 ARG | 2.73 |
| | VGFLVRTEF | HLA-B*4402 | Bond length (Å) |
| 1. | 8 GLU | 7 TYR | 2.83 |
| 2. | 6 ARG | 9 TYR | 2.98 |
| 3. | 8 GLU | 59 TYR | 2.81 |
| 4. | 7 THR | 62 ARG | 2.86 |
| 5. | 5 VAL | 70 ASN | 2.78 |
| 6. | 2 GLY | 147 TRP | 2.71 |
| 7. | 1 VAL | 156 ASP | 2.84 |
| 8. | 6 ARG | 159 TYR | 2.78 |
| 9. | 8 GLU | 167 SER | 2.67 |
| 10. | 8 GLU | 171 TYR | 2.92 |
| | AENPVFTVF | HLA-B*4402 | Bond length (Å) |
| 1. | 3 ASN | 27 TYR | 2.79 |
| 2. | 7 THR | 30 ASP | 2.97 |
| 3. | 2 GLU | 48 ARG | 2.84 |
| | FLVRTEFKY | HLA-B*4402 | Bond length (Å) |
| 1. | 9 TYR | 6 ARG | 2.76 |
| 2. | 6 GLU | 27 TYR | 2.86 |
| 3. | 4 ARG | 232 GLU | 2.90 |