**Additional file 2**

**Table S3** Probable interface residues of EBNA1 and eS25 explored through the dual docking protocols. The interacting residues of EBNA1 and eS25 binding sites are indicated.

|  |  |  |
| --- | --- | --- |
| **Protein** | **Docking servers** | **Interface residues** |
| EBNA1 | ClusPro | Tyr561, Met563, Phe565, Leu566, Gln567, Arg594, Val604, Asp605, Trp609 |
| PatchDock/FireDock | Gly452, Gln453, Gly473, Leu488, Leu489 |
| eS25 | ClusPro | Met1, Pro3, Lys4, Asp5, Val48, Leu49, Phe50, Asp51, Ser82, Leu83 |
| PatchDock/FireDock | Ser36, Lys37, Gly38, Lys39, Val40, Arg41, Leu44 |

**Table S4** Predicted interfacial residues involved in hydrophobic and ionic interactions within the EBNA1-eS25 complex.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Hydrophobic Interactions** | | | | | |
| **Position** | **Residue** | **Chain** | **Position** | **Residue** | **Chain** |
| 533 | Leu | EBNA1 | 1 | Met | eS25 |
| 549 | Pro | EBNA1 | 1 | Met | eS25 |
| 561 | Tyr | EBNA1 | 1 | Met | eS25 |
| 563 | Met | EBNA1 | 47 | Leu | eS25 |
| 563 | Met | EBNA1 | 48 | Val | eS25 |
| 564 | Val | EBNA1 | 49 | Leu | eS25 |
| 565 | Phe | EBNA1 | 1 | Met | eS25 |
| 565 | Phe | EBNA1 | 2 | Pro | eS25 |
| 565 | Phe | EBNA1 | 47 | Leu | eS25 |
| 566 | Leu | EBNA1 | 2 | Pro | eS25 |
| 566 | Leu | EBNA1 | 53 | Ala | eS25 |
| 593 | Ile | EBNA1 | 55 | Tyr | eS25 |
| 600 | Phe | EBNA1 | 49 | Leu | eS25 |
| 604 | Val | EBNA1 | 48 | Val | eS25 |
| 606 | Leu | EBNA1 | 48 | Val | eS25 |
| 606 | Leu | EBNA1 | 49 | Leu | eS25 |
| 606 | Leu | EBNA1 | 83 | Leu | eS25 |
| 609 | Trp | EBNA1 | 49 | Leu | eS25 |
| 609 | Trp | EBNA1 | 50 | Phe | eS25 |
| 609 | Trp | EBNA1 | 83 | Leu | eS25 |