**Additional file 3**

**Table S5** Predicted interfacial residues of EBNA1 and uL10 explored through the dual docking protocols. The interacting residues of EBNA1 and uL10 binding sites are indicated.

|  |  |  |
| --- | --- | --- |
| **Protein** | **Docking servers** | **Interface residues** |
| EBNA1 | ClusPro | Gly15, Arg33, Arg34, Lys75, Arg76, Pro77, Ala95, Gly256, Ala280, Gly296, Gly298, Gly299, Ala322, Gly328, Arg329, Arg339, Arg353, Arg354, Arg370, Arg372, Arg374, Arg376, Gln387, Glu573, Phe571, Lys586, Glu615, Gly621, Asp622 |
| PatchDock/FireDock | Arg532, Leu533 |
| uL10 | ClusPro | Ala113, Ser170, Thr173, Thr285, Thr286, Ala287, Ala288, Pro289, Ala290, Ala291, Ala292, Ala293, Ala294, Pro295, Ala296, Lis297, Val298, Ala300, Glu302, Glu303, Glu305, Glu309, Asp310, Met311, Gly312, Phe313, Gly314, Leu315, Phe316, Asp317 |
| PatchDock/FireDock | Arg6, Lys16 |

**Table S6** Predicted interfacial residues involved in hydrophobic and ionic interactions within the EBNA1-uL10 complex

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Hydrophobic Interactions** | | | | | | | | | |
| **Position** | **Residue** | **Chain** | | **Position** | | **Residue** | | **Chain** | |
| 77 | Pro | EBNA1 | | 316 | | Phe | | uL10 | |
| 118 | Ala | EBNA1 | | 315 | | Leu | | uL10 | |
| 255 | Ala | EBNA1 | | 313 | | Phe | | uL10 | |
| 280 | Ala | EBNA1 | | 313 | | Phe | | uL10 | |
| 297 | Ala | EBNA1 | | 311 | | Met | | uL10 | |
| 539 | Leu | EBNA1 | | 291 | | Ala | | uL10 | |
| 539 | Leu | EBNA1 | | 292 | | Ala | | uL10 | |
| 570 | Ile | EBNA1 | | 296 | | Ala | | uL10 | |
| 570 | Ile | EBNA1 | | 298 | | Val | | uL10 | |
| 571 | Phe | EBNA1 | | 292 | | Ala | | uL10 | |
| 571 | Phe | EBNA1 | | 293 | | Ala | | uL10 | |
| 571 | Phe | EBNA1 | | 294 | | Ala | | uL10 | |
| 574 | Val | EBNA1 | | 291 | | Ala | | uL10 | |
| 587 | Pro | EBNA1 | | 298 | | Val | | uL10 | |
| 618 | Ala | EBNA1 | | 293 | | Ala | | uL10 | |
| 619 | Ala | EBNA1 | | 290 | | Ala | | uL10 | |
| **Ionic Interactions** | | | | | | | | | |
| **Position** | **Residue** | | **Chain** | | **Position** | | **Residue** | | **Chain** |
| 33 | Arg | | EBNA1 | | 299 | | Glu | | uL10 |
| 33 | Arg | | EBNA1 | | 302 | | Glu | | uL10 |
| 33 | Arg | | EBNA1 | | 309 | | Glu | | uL10 |
| 34 | Arg | | EBNA1 | | 310 | | Asp | | uL10 |
| 75 | Lys | | EBNA1 | | 302 | | Glu | | uL10 |
| 76 | Arg | | EBNA1 | | 303 | | Glu | | uL10 |
| 76 | Arg | | EBNA1 | | 305 | | Glu | | uL10 |
| 76 | Arg | | EBNA1 | | 317 | | Asp | | uL10 |
| 370 | Arg | | EBNA1 | | 309 | | Glu | | uL10 |