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| **Peptide** | **Sequence** | **Epitope Source** | **HLA Allele Restriction** |
| 1 | CLGGLLTMV | EBV LMP-2 426-434 | A\*02:01 |
| 2 | GLCTLVAML | EBV BMLF-1 259-267 | A\*02:01 |
| 3 | FLDKGTYTL | EVB BALF-4 276-284 | A\*02:01 |
| 4 | FLYALALLL | EBV LMP-2 356-364 | A\*02:01 |
| 5 | YLLEMLWRL | EBV LMP-1 125-133 | A\*02:01 |
| 6 | RVRAYTYSK | EBV BRLF-1 148-156 | A3 |
| 7 | RLRAEAQVK | EBV EBNA-3A 603-611 | A\*03:01 |
| 8 | ATIGTAMYK | EBV BRLF1 134-142 | A11 |
| 9 | AVFDRKSDAK | EBV EBNA-3B 399-408 | A11 |
| 10 | IVTDFSVIK | EBV EBNA-4 416-424 | A11 |
| 11 | SSCSSCPLSK | EBV LMP-2 340-349 | A\*11:01 |
| 12 | DYCNVLNKEF | EVB BRLF1 28-37 | A24 |
| 13 | PYLFWLAAI | EVB LMP2 131-139 | A\*24:02 |
| 14 | TYGPVFMCL | EBV LMP-2 419-427 | A\*24:02 |
| 15 | TYGPVFMSL | EBV LMP2 419-427 | A\*24:02 |
| 16 | RPPIFIRRL | EBV EBNA-3A 247-255 | B\*07:02 |
| 17 | QPRAPIRPI | EBV EBNA-3C 881-889 | B\*07:02 |
| 18 | FLRGRAYGL | EBV EBNA-3A 193-201 | B\*08:01 |
| 19 | RAKFKQLL | EBV BZLF-1 190-197 | B\*08:01 |
| 20 | RRIYDLIEL | EBV EBNA 3C 78-87 | B27 |
| 21 | YPLHEQHGM | EBV EBNA 3A 458-466 | B35 |
| 22 | EPLPQGQLTAY | EBV BZLF-1 54-64 | B\*35:01 |
| 23 | HPVGEADYFEY | EBV EBNA-1 407-417 | B\*35:01 |
| 24 | IEDPPFNSL | EBV LMP2 200-208 | B\*40:01 |
| 25 | EENLLDFVRF | EBV EBNA3C 102-111 | B44 |
| 26 | QAKWRLQTL | EBV EBNA3A 158-166 | B8 |

**Supplementary Table 2:** Sequences of the pool of EBV peptides used for in vitro stimulation and their restriction elements.