# Table S3

| Gene/ Position | Common Epitope | Variant | Samples expressing variant | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | E1492 | E1503 | E1536 | E1548 | E1563 | E1577 | E1578 | E1583 | E1587 | E1590 |
| **BARF1** | | | | | | | | | | | | |
| 3-11 | RFIAQLLLL | None | | | | | | | | | | |
| 23-31 | AFLGERVTL | AFLGERATL | | | | | | | | | | |
| 24-32 | FLGERVTLT | FLGERATLT | | | | | | | | | | |
| 30-38 | TLTSYWRRV | None | | | | | | | | | | |
| 50-58 | KLGPGEEQV | None | | | | | | | | | | |
| 151-159 | LLIEGIFFI | None | | | | | | | | | | |
| **BNRF1** | | | | | | | | | | | | |
| 1281-1289 | WQWEHIPPA | None | | | | | | | | | | |
| **BRLF1** | | | | | | | | | | | | |
| 109-117 | YVLDHLIVV | None | | | | | | | | | | |
| **BZLF1** | | | | | | | | | | | | |
| 195-203 | QLLQHYREV | HLLQHYREV | | | | | | | | | | |
| **BMRF1** | | | | | | | | | | | | |
| 208-216 | TLDTKPLSV | None | | | | | | | | | | |
| **EBNA1** | | | | | | | | | | | | |
| 407-417 | HPVGEADYFEY | HPVGDADYFEY | | | | | | | | | | |
| | | HPVGGADYFEY | | | | | | | | | | |
| | | HPVGQADYFEY | | | | | | | | | | |
| 562-570 | FMVFLQTHI | FIVRLQTHI | | | | | | | | | | |
| **EBNA3A** | | | | | | | | | | | | |
| 596-604 | SVRDRLARL | None | | | | | | | | | | |
| **EBNA3B** | | | | | | | | | | | | |
| 399-408 | AVFDRKSDAK | SLFDRLSDAL | | | | | | | | | | |
| 520-528 | VMATLLPPV | None | | | | | | | | | | |
| **EBNA3C** | | | | | | | | | | | | |
| 284-292 | LLDFVRMGV | None | | | | | | | | | | |
| **BALF4** | | | | | | | | | | | | |
| 276-284 | FLDKGTYTL | None | | | | | | | | | | |
| **GP85** | | | | | | | | | | | | |
| 225-233 | SLVIVTTFV | None | | | | | | | | | | |
| 420-428 | TLFIGSHVV | None | | | | | | | | | | |
| 542-550 | LMIIPLINV | None | | | | | | | | | | |

| Gene/ Position | Common Epitope | Variant | Samples expressing variant | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | E1492 | E1503 | E1536 | E1548 | E1563 | E1577 | E1578 | E1583 | E1587 | E1590 |
| **GP85** | | | | | | | | | | | | |
| 225-233 | SLVIVTTFV | None | | | | | | | | | | |
| 420-428 | TLFIGSHVV | None | | | | | | | | | | |
| 542-550 | LMIIPLINV | None | | | | | | | | | | |
| **LMP1** | | | | | | | | | | | | |
| 159-167 | YLQQNWWTL | None | | | | | | | | | | |
| 166-174 | TLLVDLLWL | None | | | | | | | | | | |
| 167-175 | LLVDLLWLL | None | | | | | | | | | | |
| **LMP2** | | | | | | | | | | | | |
| 294-302 | CLGGLLTMV | None | | | | | | | | | | |
| 294-303 | CLGGLLTMVA | None | | | | | | | | | | |
| 294-304 | CLGGLLTMVAG | None | | | | | | | | | | |
| 224-232 | FLYALALLL | None | | | | | | | | | | |
| 256-264 | LIVDAVLQL | None | | | | | | | | | | |
| 328-336 | LLWTLVVLL | None | | | | | | | | | | |
| 131-139 | PYLFWLAAI | None | | | | | | | | | | |
| 242-250 | TVCGGIMFL | None | | | | | | | | | | |
| 231-239 | ILLARLFLY | None | | | | | | | | | | |
| 125-133 | YLLEMLWRL | YLLEILWRL | | | | | | | | | | |
| | | YFLEILWGL | | | | | | | | | | |
| | | YFLEMLWGL | | | | | | | | | | |
| | | YFLEILWRL | | | | | | | | | | |
| | | YFLDILWRL | | | | | | | | | | |
| **GP350** | | | | | | | | | | | | |
| 863-871 | VLQWASLAV | None | | | | | | | | | | |
| **BARF0** | | | | | | | | | | | | |
| 356-364 | LLWAARPRL | None | | | | | | | | | | |
| **BZLF1** | | | | | | | | | | | | |
| 190-197 | RAKFKQLL | RAKFKHLL | | | | | | | | | | |
| **BMLF1** | | | | | | | | | | | | |
| 259-267 | GLCTLVAML | None | | | | | | | | | | |

B cell AIM

Oral Wash AIM

B cell CONV

Oral Wash CONV

**Table S3: Analysis of CD8+ T cell epitopes in EBV sequenced from patient samples demonstrated no evidence of viral escape.** Common HLA*A2 CD8+ T cell epitopes were tracked for changes from AIM to CONV in viral sequences present in either OW or BC pellets. The chart above lists each investigated EBV gene, the location of the CD8+ T cell epitope within the amino acid sequence, the amino acid sequence of the immunodominant epitope, as well the sequence(s) of any variants detected. Each filled circle denotes which of the patient sequences displayed a given variant; the absence of any filled circle indicates that patient expressed the common epitope.