**S3 Table**

**Sequencing primers to confirm engineered mutations**

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| Block | Gene | Primer | Sequence |
| 1 | **E1B19K** | **Ad5-16** | CTTGCATGGCGTGTTAAATGG |
| 1 | **E1B55K****n-terminus** | **Ad5-17** | CAAGAGAAGGTCATCAAGAC |
| 1 | **E1B55K****c-terminus** | **Ad5-18** | GGATGTGACCGAGGAGCTGAG |
| 7 | **E4ORF6****E4ORF3** | **Ad5-23** | TACGGAGTGCGCCGAGACAAC |
| 7 | **E4ORF3** | **Ad5-24** | TCTCATCTCGCCACCTTCTC |