| Experiment | Ferret | Amino acid position | ORF7a | ORF3a | ORF1a | ORF1b | spike | spike | spike | spike |
|------------|--------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |        |                     |       |       |       |       |       |       |       |       |
| rechall-wa-2 |       |                     |       |       |       |       |       |       |       |       |
| rechall-ba-1 |       |                     |       |       |       |       |       |       |       |       |
| nec-2 |        |                     |       |       |       |       |       |       |       |       |
| day5-wash |        |                     |       |       |       |       |       |       |       |       |
| wash |        |                     |       |       |       |       |       |       |       |       |
| nasal |        |                     |       |       |       |       |       |       |       |       |
| ethmoid |        |                     |       |       |       |       |       |       |       |       |
| bulb |        |                     |       |       |       |       |       |       |       |       |
| day1-swab |        |                     |       |       |       |       |       |       |       |       |
| rectal |        |                     |       |       |       |       |       |       |       |       |
| primary and secondary challenge |        |                     |       |       |       |       |       |       |       |       |
| primary and secondary challenge |        |                     |       |       |       |       |       |       |       |       |
| primary and secondary challenge |        |                     |       |       |       |       |       |       |       |       |
| primary and secondary challenge |        |                     |       |       |       |       |       |       |       |       |
| primary and secondary challenge |        |                     |       |       |       |       |       |       |       |       |

**Amino acid positions**
- ORF7a
- ORF3a
- ORF1a
- ORF1b
- spike

**Percentage frequencies of genomic variants**
- ORF7a
- ORF3a
- ORF1a
- ORF1b
- spike

**Location**
- Oral
- Nasal
- Ethmoid
- Bulb
- Day 1
- Day 5
- Wash

**Ferret**
- ND
- NT