### Supplemental Table 1. Fc detection and antigen reagents

| Antigen          | Source                      | Fc Detection | Source                      |
|------------------|-----------------------------|--------------|-----------------------------|
| SARS-CoV-2 S     | Acro Biosystems             | a-IgG        | Southern Biotech 2048-09    |
| SARS-CoV-2 S1    | Acro Biosystems             | a-IgG1       | Southern Biotech 9054-09    |
| SARS-CoV-2 S2-P  | Plasmid provided by Jason McLellan | a-IgG2 | Southern Biotech 9070-09    |
| SARS-CoV-2 S-6P  | Plasmid provided by Jason McLellan | a-IgG3 | Southern Biotech 9210-09    |
| SARS-CoV-2 RBD   | BEI Resources               | a-IgG4       | Southern Biotech 9200-09    |
| SARS-CoV-2 S2    | Immune Technology           | a-IgA        | Southern Biotech 2050-09    |
| SARS-CoV-2 S Alpha (B.1.1.7) | Sino Biological | a-IgM        | Southern Biotech 9020-09    |
| SARS-CoV-2 S Beta (B.1.351) | Sino Biological | FcyR2a       | Boesch, et. al, 2014       |
| SARS-CoV-2 S Gamma (P.1) | Sino Biological | FcyR2b       | Boesch, et. al, 2014       |
| SARS-CoV-2 S Delta (B.1.617.2) | Sino Biological | FcyR3a       | Boesch, et. al, 2014       |
| SARS-CoV-2 S Omicron (B.1.1.529) | Sino Biological | FcyR3b       | Boesch, et. al, 2014       |
| SARS-CoV-2 RBD Alpha (B.1.1.7) | Sino Biological | FcyR2b       | Boesch, et. al, 2014       |
| SARS-CoV-2 RBD Beta (B.1.351) | Sino Biological | FcyR3a       | Boesch, et. al, 2014       |
| SARS-CoV-2 RBD Gamma (P.1) | Sino Biological | FcyR3b       | Boesch, et. al, 2014       |
| SARS-CoV-2 RBD Delta (B.1.617.2) | Sino Biological | FcyR2b       | Boesch, et. al, 2014       |
| SARS-CoV-2 RBD Omicron (B.1.1.529) | Sino Biological | FcyR3a       | Boesch, et. al, 2014       |
| SARS-CoV S       | Sino Biological             |              |                             |
| SARS-CoV S1      | Sino Biological             |              |                             |
| MERS S           | Sino Biological             |              |                             |
| MERS S1          | Sino Biological             |              |                             |
| OC43 S           | Sino Biological             |              |                             |
| OC43 S-2P        | Plasmid provided by Jason McLellan |          |                             |
| Sample Name | Supplier Information |
|-------------|----------------------|
| OC43 S2     | Sino Biological 40069-V08B |
| 229E S      | Sino Biological 40605-V08B |
| 229E S1     | Sino Biological 40601-V08H |
| HKU1 S      | Sino Biological 40606-V08B |
| HKU1 S1     | Sino Biological 40602-V08H |
| NL63 S      | Sino Biological 40606-V08B |
| NL63 S1     | Sino Biological 40604-V08H |