Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Bradley T, Grundberg E, Selvarangan R, et al. Antibody responses after a single dose of SARS-CoV-2 mRNA vaccine. N Engl J Med. DOI: 10.1056/NEJMc2102051

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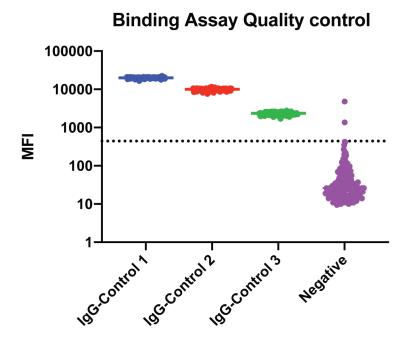


Figure S1. Intensity of quality control beads for multiplex binding assay. Positive control beads complexed with IgG at 3 concentrations (IgG-Control 1, 95% CI, 19,936 to 20,115; IgG-Control 2, 95% CI, 9,961 to 10,206; IgG-Control 3, 95% CI, 2,343 to 2,389) or beads not coated with antigen (Negative, 95% CI, 24.0 to 27.0) are run with each plasma sample for quality control. Each dot represents the MFI for the controls ran with each plasma sample. The sum of the average and standard deviation of the negative control beads were utilized to determine a threshold of binding (dashed line). This threshold is shown on all graphs.

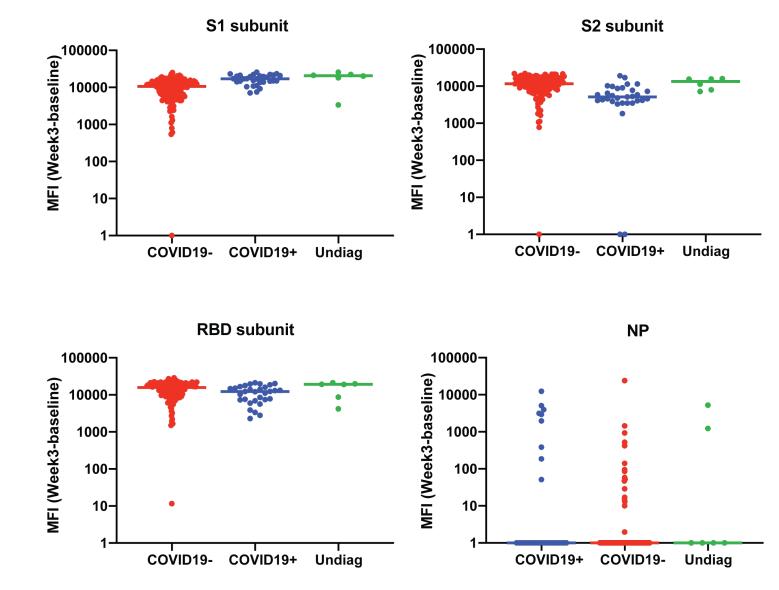


Figure S2. Magnitude of change of antibody binding in each individual at week 3 from baseline. Multiplex bead-based antibody binding assay that measures the IgG antibody response to 4 SARS-CoV-2 viral antigen subunits (S1, S2, RBD and NP). Median Fluorescent Intensity (MFI) is reported that has been background subtracted and MFI at week3 and at baseline were subtracted (Week3-baseline) in order to show individual-level magnitude of change of immunization with SARS-CoV-2 vaccine. Each dot represents an individual. Bars represent group median. Individuals at baseline with history of infection (blue), no history of infection (red) and possible undiagnosed infection (green).

Table S1. Study participant demographics

	Seropositive (COVID19+; N=36)	Seronegative (COVID19-; N=152)
Age	Median 38 years old	Median 46 years old
O	Range 25-73 years old	Range 22-75 years old
Gender	Male: 4	Male: 46
	Female: 32	Female: 105
Race	White: 34	White: 133
	Black or African American: 0	Black or African American: 3
	American Indian or Alaska Native: 0	American Indian or Alaska Native: 0
	Asian: 2	Asian: 7
	Native Hawaiian or Other Pacific Islander: 0	Native Hawaiian or Other Pacific Islander: 0
	Multiracial: 0	Multiracial: 5
	Unknown: 0	Unknown: 4
Ethnicity	Hispanic or Latino: 5	Hispanic or Latino: 10
-	Not Hispanic or Latino: 30	Not Hispanic or Latino: 129
	Unknown: 1	Unknown: 13

Table S2. 95% Confidence interval of median of binding antibody responses

COVID19-	Baseline	Week3
S1	Lower: 13.7	Lower: 9,170
	Upper: 20.0	Upper: 11,757
S2	Lower: 734.8	Lower: 11,687
	Upper: 1,089	Upper: 14,909
RBD	Lower: 174.0	Lower:13,818
	Upper: 272.0	Upper: 17,350
NP	Lower: 409.5	Lower: 279.3
	Upper: 609.8	Upper: 378.3

COVID19+	Baseline	Week3
S1	Lower: 5,837	Lower: 24,799
	Upper: 8,345	Upper: 27,033
S2	Lower: 20,476	Lower: 27,955
	Upper: 24,997	Upper: 30,124
RBD	Lower: 11,651	Lower: 26,031
	Upper: 16,667	Upper: 27,186
NP	Lower: 15,901	Lower: 12,464
	Upper: 23,004	Upper: 22,868