

Table S8. EnDVR cohort of US healthy volunteers drawn before and after the booster of the SARS-CoV2 vaccine.

REDCap Record ID	Age	Sex	Race	First Blood draw date (pre flu vaccination)	Serum Sample ID	Flu Vaccination Date	2nd blood draw date (post flu vaccination)	Stool sample collection date	Stool sample ID	Have you received a dose of a COVID-19 vaccine (any manufacturer)?	What was the vaccine manufacturer?	What was the date of the vaccine, if the exact date is not known please estimate	Have you received a 2nd dose of a COVID-19 vaccine (any manufacturer)?	Have you received a 2nd dose of a COVID-19 vaccine (any manufacturer)?	Date of 2nd dose	Have you received a COVID-19 vaccine booster?	Have you received a COVID-19 vaccine booster?	Booster date	1st Covid titer (ug/ml)	2nd Covid titer (ug/ml)	Delta Covid	ELISA Covid Fold-change/Delta titer	blood post booster?	SIG1_count	SIG2_count	S_score	Akk	SIG_class	Toposcore
8	37	Male		16/09/2021	008-prevacc	21/09/2021	21/10/2021	19/09/2021	Endvr 008-S	Yes	Pfizer	n/a	Yes	Pfizer	n/a	Yes	Pfizer	n/a	1,5	133,2	131,7	88,8	0 booster	4	27	0,745946	0,03772	Gray	SIG2+
4	28	Male	Asian	05/10/2021	004-prevacc	13/10/2021	16/11/2021	11/11/2021	Endvr 004-S	Yes	Moderna	22/01/2021	Yes	Moderna	22/02/2021	Yes	Moderna	01/11/2021	6,1	124,4	118,3	20,3934426	yes	1	33	0,853153	0	SIG2	SIG2+
7	64	Female	Asian	12/10/2021	007-prevacc	21/10/2021	16/11/2021	15/10/2021	Endvr 007-S	Yes	Moderna	31/12/2020	Yes	Moderna	28/01/2021	Yes	Moderna	03/11/2021	16,7	134,4	117,7	8,04790419	yes	8	20	0,614114	0	Gray	SIG1+
1	29	Male		05/10/2021	001-prevacc	14/10/2021	11/11/2021	06/10/2021	Endvr 001-S	Yes	Pfizer	28/12/2020	Yes	Pfizer	20/01/2021	Yes	Pfizer	21/11/2021	4,6	114,1	109,5	24,8043478	no	4	14	0,601502	0	Gray	SIG1+
3	61	Female	White Not HI	16/09/2021	003-prevacc	21/09/2021	21/10/2021	n/a	Endvr 003-S	Yes	Pfizer	22/01/2021	Yes	Pfizer	12/02/2021	Yes	Pfizer	06/10/2021	7	114,1	107,1	16,3	yes	5	28	0,743544	0	Gray	SIG1+
21	32	Female		05/10/2021	021-prevacc	13/10/2021	16/11/2021	08/10/2021	Endvr 021-S	Yes	Pfizer	22/12/2020	Yes	Pfizer	18/01/2021	Yes	Pfizer	11/10/2021	1,2	66	64,8	55	yes	7	19	0,616517	0	Gray	SIG1+
57	31	Female	White Not HI	07/10/2021	57 pre-vacc	13/10/2021	16/11/2021	10/10/2021	Endvr 057-S	Yes	Pfizer	01/03/2021	Yes	Pfizer	22/03/2021	Yes	Pfizer	27/10/2021	2,9	60,9	58	21	yes	2	29	0,795195	0,30379	SIG2	SIG2+
72	40	Male	Hispanic	21/10/2021	72-prevacc	10/26/2021	02/12/2021	03/11/2021	Endvr 072-S	Yes	n/a	30/12/2020	Yes	n/a	27/01/2021	Yes	n/a	03/11/2021	3,8	61,3	57,5	16,131579	yes	2	37	0,884084	0	SIG2	SIG2+
35	66	Female		30/09/2021	035-prevacc	08/10/2021	09/11/2021	03/10/2021	Endvr 035-S	Yes	Pfizer	21/12/2020	Yes	Pfizer	11/01/2021	Yes	Pfizer	20/10/2021	2,7	58,7	56	21,7407407	yes	3	22	0,703904	0,5325	Gray	SIG2+
69	45	Male	White Not HI	29/10/2021	69-prevacc	02/11/2021	02/12/2021	15/11/2021	Endvr 069-S	Yes	Moderna	03/01/2021	Yes	Moderna	08/02/2021	Yes	Moderna	30/11/2021	3,5	52,6	49,1	15,0285714	yes	5	30	0,765766	0	Gray	SIG1+
36	42	Female	White Not HI	07/10/2021	36 pre vacc	13/10/2021	16/11/2021	11/10/2021	Endvr 036-S	Yes	Pfizer	12/01/2021	Yes	Pfizer	02/02/2021	Yes	Pfizer	27/10/2021	2,6	49,6	47	19,0769231	yes	1	26	0,775375	0	Gray	SIG1+
44	58	Female		12/10/2021	44-prevacc	10/19/2021	30/11/2021	17/10/2021	Endvr 044-S	Yes	Pfizer	05/01/2021	Yes	Pfizer	26/01/2021	Yes	Pfizer	13/10/2021	3,4	41,5	38,1	12,2058824	yes	9	18	0,578378	0	Gray	SIG1+
41	47	Female	Hispanic	07/10/2021	41-prevacc	08/10/2021	18/11/2021	na	Endvr 041-S	Yes	Pfizer	25/01/2021	Yes	Pfizer	24/02/2021	Yes	Pfizer	23/10/2021	0,8	38,1	37,3	47,625	yes	7	18	0,605405	0	Gray	SIG1+
2	55	Female	White Not HI	28/09/2021	002-prevacc	05/10/2021	09/12/2021	01/10/2021	Endvr 002-S	Yes	Pfizer	20/12/2020	Yes	Pfizer	09/10/2021	0	Pfizer	09/10/2021	0	37,1	37,1	#DIV/0!	yes	5	17	0,621321	0,1329	Gray	SIG2+
40	35	Female	Hispanic	07/10/2021	40 pre vacc	13/10/2021	16/11/2021	08/10/2021	Endvr 040-S	Yes	Pfizer	28/12/2020	Yes	Pfizer	20/01/2021	Yes	Pfizer	13/10/2021	2	34,3	32,3	17,15	yes	4	27	0,745946	0,62177	Gray	SIG2+
32	32	Female	White Not HI	16/09/2021	027-pre vacc	23/09/2021	26/10/2021	18/09/2021	Endvr 027-S	Yes	Pfizer	16/12/2020	Yes	Pfizer	06/01/2021	Yes	Pfizer	02/10/2021	1,2	33,3	32,1	27,75	yes	5	14	0,587988	0	Gray	SIG1+
32	32	Female	White Not HI	21/09/2021	032-pre vacc	28/09/2021	02/11/2021	22/09/2021	Endvr 032-S	Yes	Pfizer	16/12/2020	Yes	Pfizer	16/01/2021	Yes	Pfizer	20/09/2021	1,6	30,4	28,8	19	yes	4	4	0,422823	0	SIG1	SIG1+
34	35	Female	White Not HI	07/10/2021	34 prevacc	13/10/2021	02/12/2021	11/10/2021	Endvr 034-S	Yes	Moderna	31/12/2020	Yes	Moderna	28/01/2021	Yes	Moderna	03/11/2021	5,1	29,9	24,8	5,8627451	yes	8	25	0,66967	0,13068	Gray	SIG2+
20	40	Female		21/09/2021	020-pre vacc	28/09/2021	18/11/2021	n/a	Endvr 020-S	Yes	Pfizer	16/12/2020	Yes	Pfizer	09/01/2021	Yes	Pfizer	30/10/2021	3,7	27,5	23,8	7,43243243	yes	9	1	0,389489	0	SIG1	SIG1+
39	39	Female	Hispanic	28/09/2021	039-pre vacc	05/10/2021	09/11/2021	03/10/2021	Endvr 039-S	Yes	Pfizer	21/12/2020	Yes	Pfizer	11/01/2021	Yes	Pfizer	06/10/2021	2,7	24,6	21,9	9,11111111	yes	1	26	0,775375	2,81268	Gray	SIG2+
33	34	Male		07/10/2021	33 pre-vacc	13/10/2021	18/11/2021	12/10/2021	Endvr 033-S	Yes	Pfizer	15/12/2020	Yes	Pfizer	30/01/2021	Yes	Pfizer	11/11/2021	1,2	21,9	20,7	18,25	no	7	33	0,772072	0,86687	Gray	SIG2+
15	49	Female	Asian	05/10/2021	015-prevacc	05/10/2021	11/18/2021	08/10/2021	Endvr 015-S	Yes	Pfizer	29/12/2020	Yes	Pfizer	20/01/2021	Yes	Pfizer	29/09/2021	19,1	38,6	19,5	2,02094241	yes	6	20	0,641141	0	Gray	SIG1+
53	25	Female		05/10/2021	53-prevacc	16/10/2021	16/11/2021	08/10/2021	Endvr 053-S	Yes	Pfizer	03/02/2021	Yes	Pfizer	01/03/2021	Yes	Pfizer	13/10/2021	2,2	20,9	18,7	9,5	yes	2	29	0,795195	0,99655	SIG2	SIG2+
18	29	Female		05/10/2021	018-prevacc	10/26/2021	09/12/2021	06/10/2021	Endvr 018-S	Yes	Pfizer	22/01/2021	Yes	Pfizer	12/02/2021	Yes	Pfizer	19/11/2021	2,2	20,1	17,9	9,13636364	yes	9	12	0,511712	0	SIG1	SIG1+
50	33	Female		05/10/2021	50-prevacc	19/10/2021	16/11/2021	08/10/2021	Endvr 050-S	Yes	Pfizer	16/12/2021	Yes	Pfizer	06/01/2021	Yes	Pfizer	21/10/2021	0	15,7	15,7	#DIV/0!	yes	4	28	0,757057	0,58537	Gray	SIG2+
9	50	Male		07/10/2021	009-prevacc	Oct 19 / Oct	11/11/2021	09/10/2021	Endvr 009-S	Yes	Pfizer	04/09/2020	Yes	Pfizer	25/09/2020	Yes	Pfizer	27/10/2021	23,1	38,6	15,5	1,67099567	yes	5	21	0,665766	0	Gray	SIG1+
43	56	Female	Hispanic	07/10/2021	43 pre vacc	16/10/2021	18/11/2021	19/10/2021	Endvr 043-S	Yes	Pfizer	27/12/2020	Yes	Pfizer	19/01/2021	Yes	Pfizer	20/10/2021	1,2	15,9	14,7	13,25	yes	11	6	0,418018	0	SIG1	SIG1+
28	52	Female	Hispanic	07/10/2021	28-prevacc	16/10/2021	18/11/2021	08/10/2021	Endvr 028-S	Yes	Pfizer	05/01/2021	Yes	Pfizer	26/01/2021	Yes	Pfizer	27/10/2021	3,6	16,6	13	4,61111111	yes	4	26	0,734835	0	Gray	SIG1+
52	51	Female	White Not HI	12/10/2021	52-prevacc	08/10/2021	18/11/2021	12/10/2021	Endvr 052-S	Yes	Pfizer	16/12/2020	Yes	Pfizer	13/01/2021	Yes	Pfizer	03/11/2021	2,8	11,8	9	4,21428571	yes	0	23	0,755556	0	Gray	SIG1+
64	42	Female	Asian	12/10/2021	64-prevacc	19/10/2021	16/11/2021	15/10/2021	Endvr 064-S	Yes	Moderna	06/01/2021	Yes	Moderna	03/02/2021	Yes	Moderna	10/11/2021	10,6	18,6	8	1,75471698	yes	3	26	0,748348	0,10806	Gray	SIG2+
70	41	Female	White Not HI	26/10/2021	70-pre-vacc	10/26/2021	09/12/2021	02/11/2021	Endvr 070-S	Yes	Pfizer	01/03/2021	Yes	Pfizer	30/04/2021	Yes	Moderna	02/12/2021	2	2,3	0,3	1,15	yes	8	23	0,647447	0,07763	Gray	SIG2+
26	49	Female	White Not HI	19/10/2021	026-prevacc	10/19/2021	16/11/2021	20/10/2021	Endvr 026-S	Yes	Pfizer	01/03/2021	Yes	Pfizer	22/03/2021	No	n/a	n/a	1,4	1,6	0,2	1,14285714	0 booster	3	26	0,748348	0	Gray	SIG1+
11	41	Female	Hispanic	07/10/2021	11-prevacc	14/10/2021	11/11/2021	na	Endvr 011-S	Yes	Pfizer	18/01/2021	Yes	n/a	12/02/2021	No	n/a	n/a	0	0	0	#DIV/0!	0 booster	3	31	0,803904	0,10352	SIG2	SIG2+
54	44	Male	Asian	05/10/2021	54-prevacc	13/10/2021	16/11/2021	22/10/2021	Endvr 054-S	Yes	Moderna	15/01/2021	Yes	Moderna	12/02/2021	Yes	Moderna	18/11/2022	0,6	0,4	-0,2	0,66666667	no	1	25	0,746264	0	Gray	SIG1+
67	35	Female	White Not HI	26/10/2021	67-pre-vacc	10/26/2021	09/12/2021	27/10/2021	Endvr 067-S	Yes	Pfizer	01/01/2021	Yes	Pfizer	16/02/2021	Yes	Pfizer	01/12/2021	1,3	1	-0,3	0,76923077	yes	2	34	0,850751	0	SIG2	SIG2+
59	58	Female	White Not HI	14/10/2021	59 pre-vacc	10/19/2021	18/11/2021	15/10/2021	Endvr 059-S	Yes	Pfizer	25/01/2021	Yes	Pfizer	22/02/2021	No	n/a	n/a	1,5	1	-0,5	0,66666667	0 booster	8	22	0,636336	0	Gray	SIG1+
51	28	Male		21/10/2021	51-prevacc	27/10/2021	30/11/2021	na	Endvr 051-S	Yes	Pfizer	23/12/2020	Yes	Pfizer	14/01/2021	Yes	Pfizer	01/12/2021	0,9	0,3	-0,6	0,33333333	no	5	18	0,632432	0	Gray	SIG1+
24	51	Female	White Not HI	07/10/2021	024-prevacc	16/10/2021	18/11/2021	10/10/2021	Endvr 024-S	Yes	Moderna	06/01/2021	Yes	Moderna	03/02/2021	Yes	Moderna	20/11/2021	1,8	1,1	-0,7	0,61111111	no	9	32	0,733934	17,60533	Gray	SIG1+
62	29	Female	White Not HI	12/10/2021	62-prevacc	13/10/2021	11/11/2021	11/10/2021	Endvr 062-S	Yes	Moderna	31/12/2020	Yes	Moderna	28/01/2021	Yes	Moderna	09/12/2021	2,7	1,7	-1	0,62962963	yes	6	17	0,607808	9,53054	Gray	SIG1+
22	24	Male	White Not HI	05/10/2021	022-prevacc	13/10/2021	11/11/2021	06/10/2021	Endvr 022-S	Yes	Pfizer	08/04/2021	Yes	Pfizer	29/04/2021	No	n/a	n/a	4,4	1,8	-2,6	0,40909091	0 booster	3	26	0,748348	0,69363	Gray	SIG2+
74	45	Male	White Not HI	29/10/2021	74-prevacc	10/26/2021	30/11/2021	01/11/2021	Endvr 074-S	Yes	n/a	n/a	Yes	n/a	n/a	No	n/a	n/a	5,3	2,5	-2,8	0,47169811	0 booster	1	34	0,864264	1,63362	SIG2	SIG2+
6	25	Female		07/10/2021	006-prevacc	13/10/2021	18/11/2021	08/10/2021	Endvr 006-S	Yes	n/a	20/01/2021	Yes	n/a	06/02/2021	No	n/a	n/a	8,2	4	-4,2	0,48780488	0 booster	3	35	0,848348	0,00401	SIG2	SIG2+
16	44	Female																											