

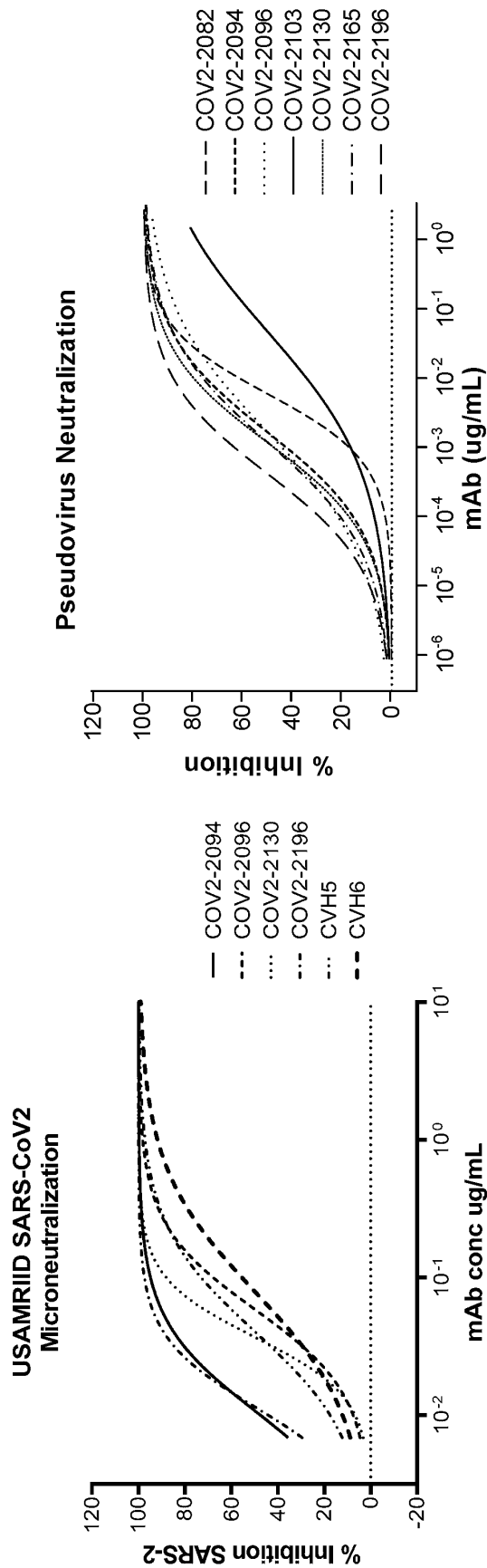


Fig. 1

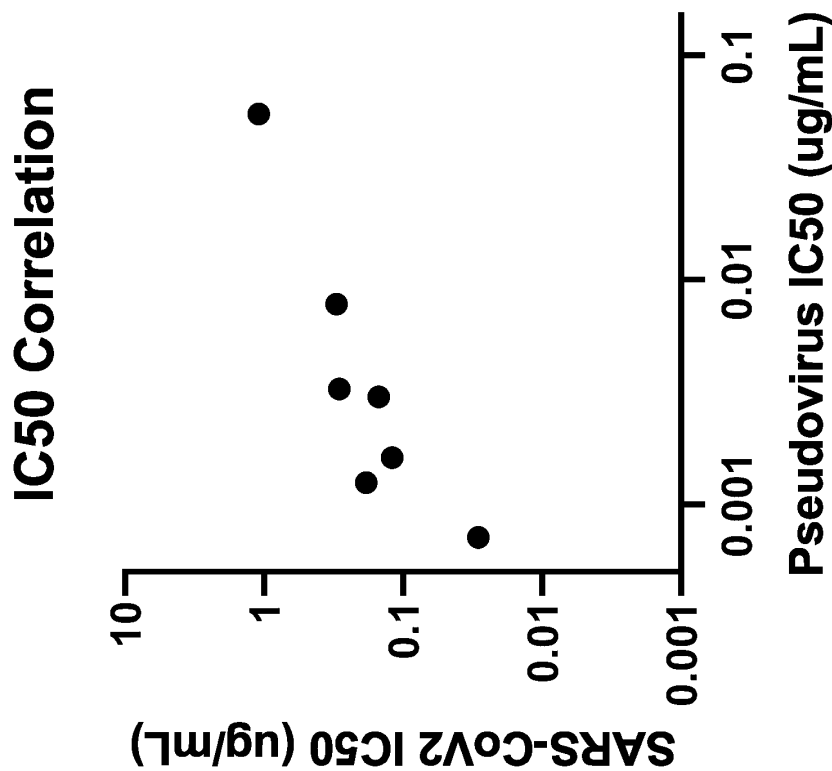


Fig. 2

IgG Concurrent Binding to RBD

Ab	mAb2										
	Bin 1b	Bin 1b	Bin 1b	Bin 1c	Bin 1d	Bin 1e	Bin 3b	Bin 4	Bin 5a	Bin 5b	
Bin 1b	CVH-6	CVH-1	CVH-6	uniq8	CVH-5	2196	2165	CR3022	CV4	2094	2130
Bin 1b	unique 8	X	X	X	X	X	X	✓	✓	X	✓
Bin 1c	CVH-5	X	X	X	X	X	X	✓	✓	P	✓
Bin 1d	2196	X	X	X	X	X	X	✓	✓	P	✓
Bin 3b	CR3022	✓	✓	✓	✓	✓	✓	X	X	✓	✓
Bin 3b	CV4	✓	✓	✓	✓	✓	✓	X	X	✓	✓
Bin 4	2094	X	X	X	X	P	X	X	X	✓	✓
Bin 5a	2130	✓	✓	✓	P	✓	✓	✓	✓	P	X
Bin 5b	2096	✓	✓	P	X	✓	✓	✓	✓	X	X

IgG Concurrent Binding to Trimer

Ab	mAb1										
	Bin 1b	Bin 1b	Bin 1b	Bin 1c	Bin 1d	Bin 1e	Bin 4	Bin 5a	Bin 5b		
Bin 1b	CVH-1	CVH-6	uniq8	CVH-5	2196	2165	2094	2096	2130		
Bin 1b	CVH-1	X	X	X	X	X	X	✓	✓		
Bin 1b	CVH-6	X	X	X	X	X	X	✓	✓		
Bin 1b	unique 8	X	X	X	X	X	X	X	✓		
Bin 1c	CVH-5	X	X	X	X	X	X	X	X		
Bin 1d	2196	X	X	X	X	X	X	✓	✓		
Bin 1e	2165	X	P	P	X	X	X	✓	✓		
Bin 4	2094	X	X	X	X	X	X	✓	✓		
Bin 5a	2130	✓	✓	X	✓	✓	✓	X	X		
Bin 5b	2096	✓	✓	P	X	X	✓	X	✓		
NTD	P22-7	✓	✓	✓	✓	✓	✓	✓	✓		

Fig. 3

IC50 (ng/mL)	Rep1	Rep2	Rep3	Rep4	Rep5	Rep6	Rep7	Average	STDev	Rank
V2196 + V2096	6.237	2.213	0.107	0.025	2.094	3.493	3.752	2.560	2.183	High
V2196 + V2130	8.171	2.835	0.063	0.153	3.137	2.830	5.332	3.217	2.848	High
V2165 + V2096	19.910	7.972	0.456	0.113	5.459	7.458		6.895	7.216	Low
V2165 + V2130	7.558	7.626	0.169	0.241	4.585	4.495		4.112	3.321	High
CVH6 + V2096		40.100	5.922	0.907				15.643	21.328	Low
CVH6 + V2130		17.410	0.381	0.044			11.200	7.259	8.523	Low
V2094 + V2096		8.418	0.355	0.011	7.110	7.945	12.780	6.103	4.990	Medium
V2094 + V2130		5.497	0.137	0.034	6.721	5.677	7.243	4.218	3.266	Medium

Constrained 0 – 100% inhibition for nonlinear regression curve fit

Fig. 4

Fig. 5A

mAb 2196 (ng/mL)											
1500	300	60	12	2.4	0.5	0.1	0.02	0.004	0.001	0	0
1500	100	100	100	100	100	100	100	100	100	100	100
300	100	100	100	100	100	100	100	100	100	100	100
60	100	100	99	97	96	96	96	96	96	96	94
12	100	100	98	51	49	56	51	44	48	43	43
2.4	100	100	98	31	37	42	19	21	18	14	14
0.5	100	100	98	27	20	13	11	22	0	0	0
0.1	100	100	98	73	16	9	12	17	7	0	0
0.02	100	100	98	68	23	13	7	11	3	0	0
0.004	100	100	98	71	19	1	5	7	9	0	0
0.001	100	100	98	68	11	19	1	0	0	0	0
0	100	100	97	66	32	10	0	0	0	0	0

Fig. 5B

V2096 (ng/mL)											
1500	300	60	12	2.4	0.5	0.1	0.02	0.004	0.001	0	0
1500	100	100	100	100	100	100	100	100	100	100	100
300	100	100	100	100	100	100	100	100	100	100	100
60	100	100	98	98	98	98	98	98	98	97	97
12	100	99	87	79	72	77	77	78	73	69	69
2.4	100	98	56	40	17	38	31	33	30	23	23
0.5	100	97	39	21	11	18	19	21	20	18	18
0.1	100	97	29	11	2	0	0	11	39	0	0
0.02	100	97	31	18	2	10	17	6	6	0	0
0.004	100	97	22	9	6	2	0	7	0	0	0
0.001	100	97	15	13	0	1	0	0	0	0	0
0	100	97	15	0	0	0	0	0	4	0	0

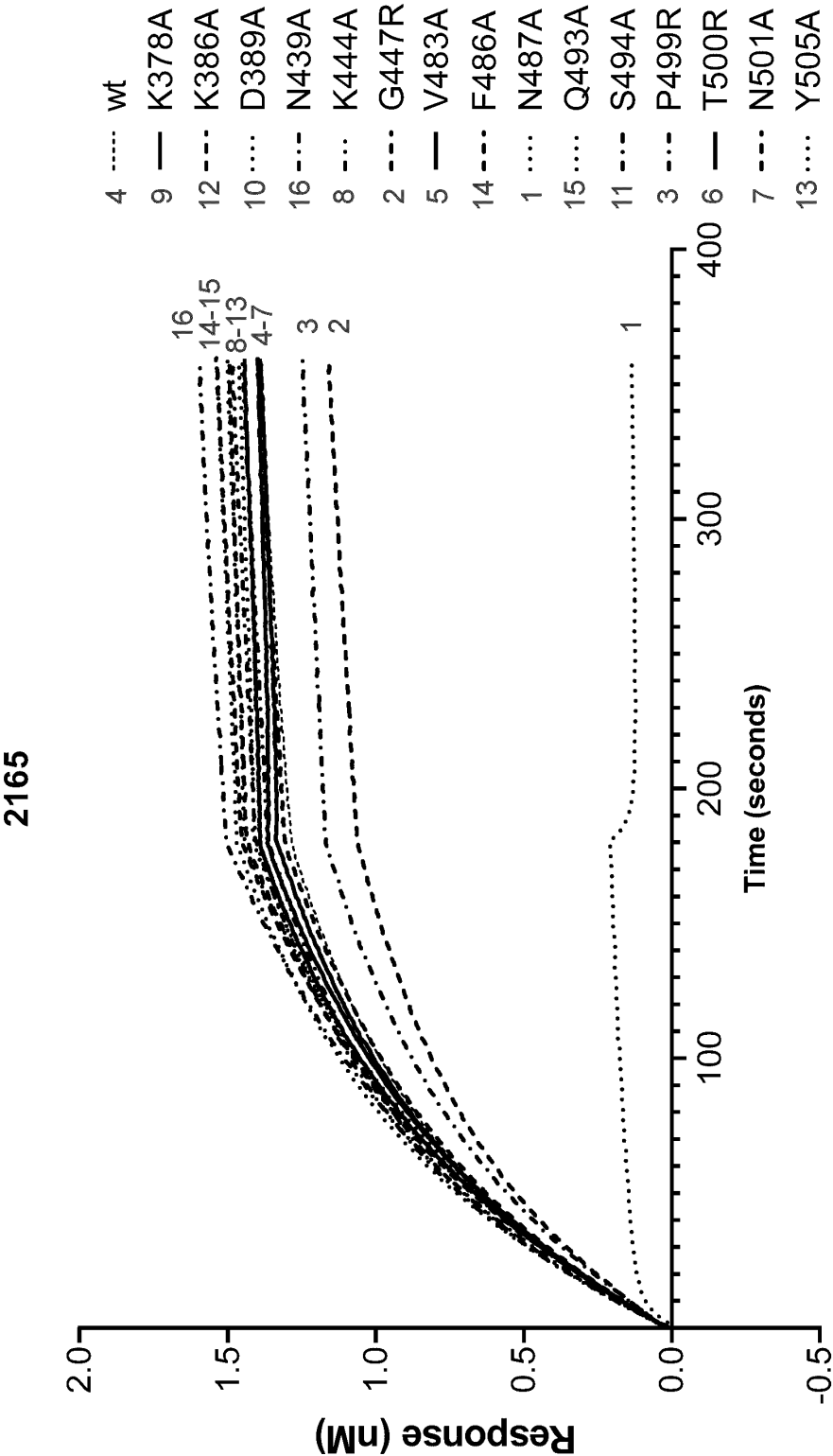


Fig. 6A

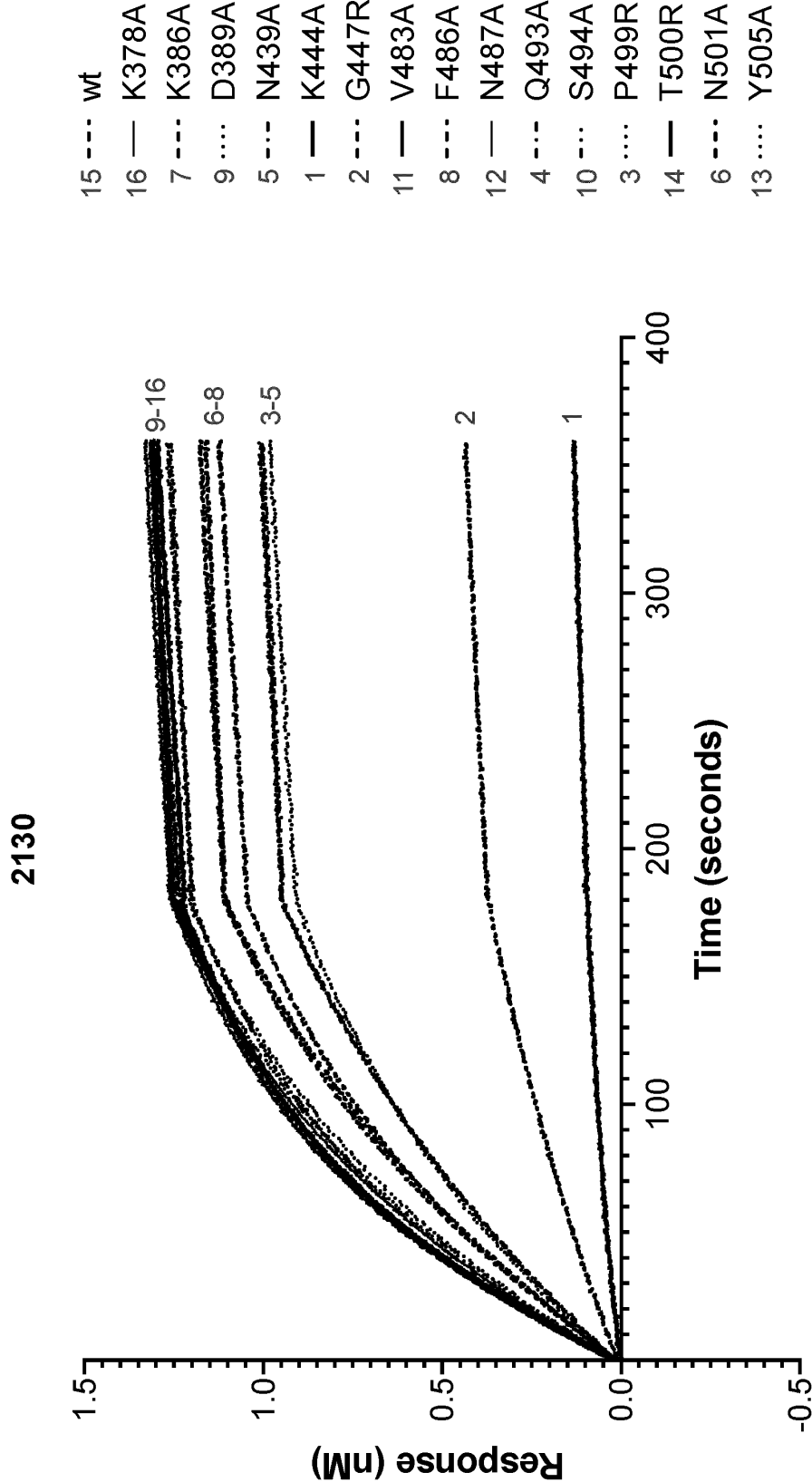


Fig. 6B

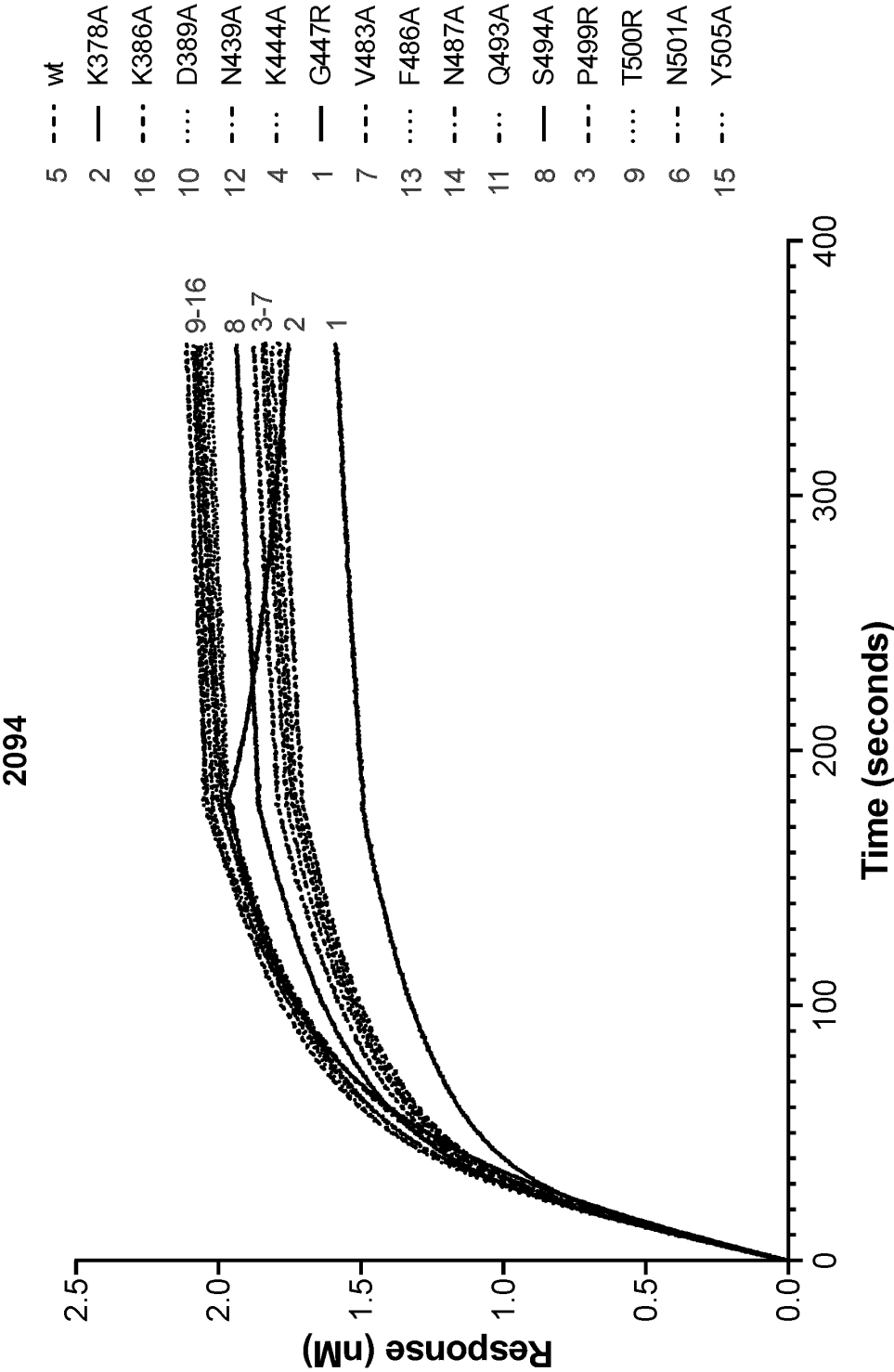


Fig. 6C

2196

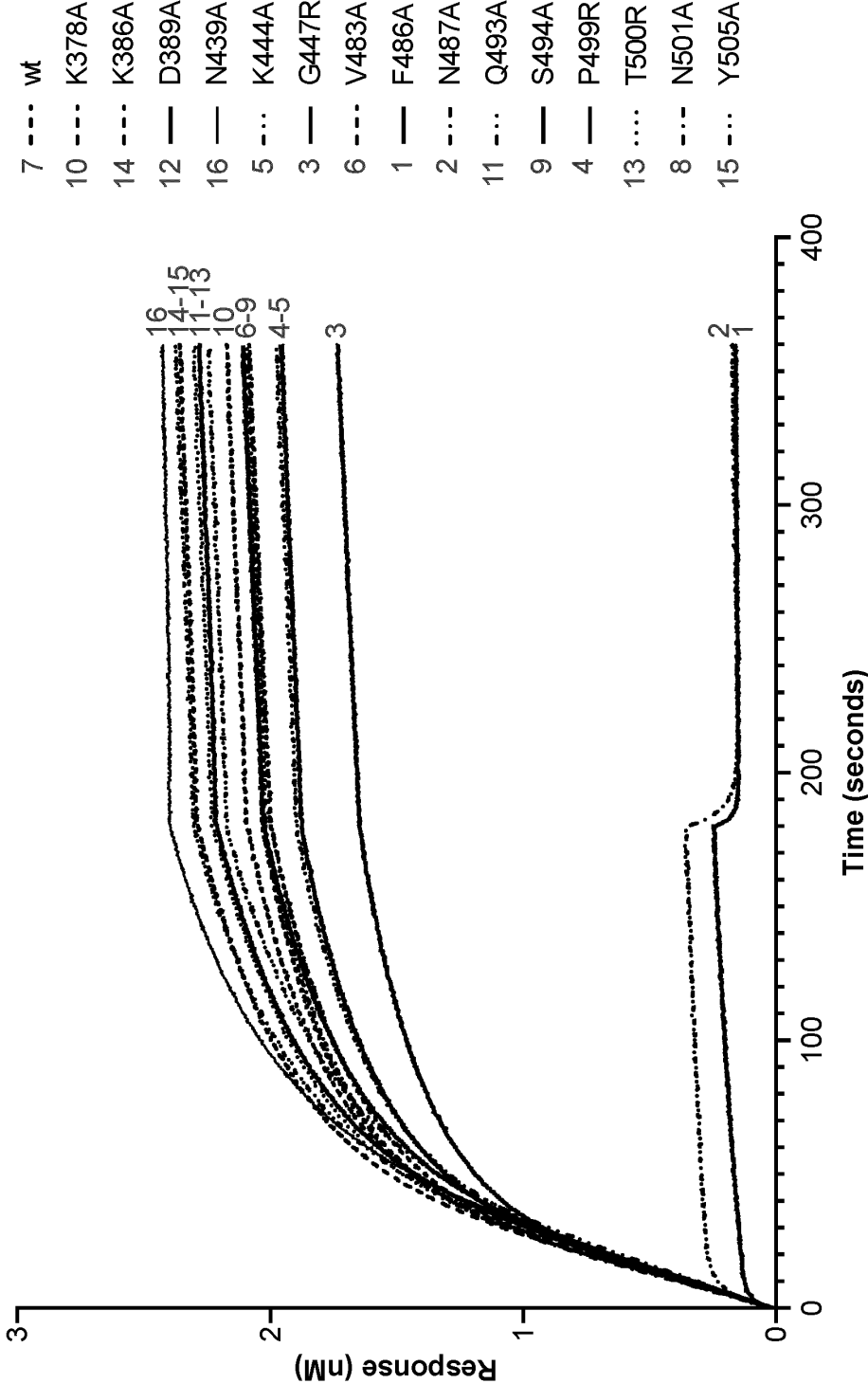


Fig. 6D

2096

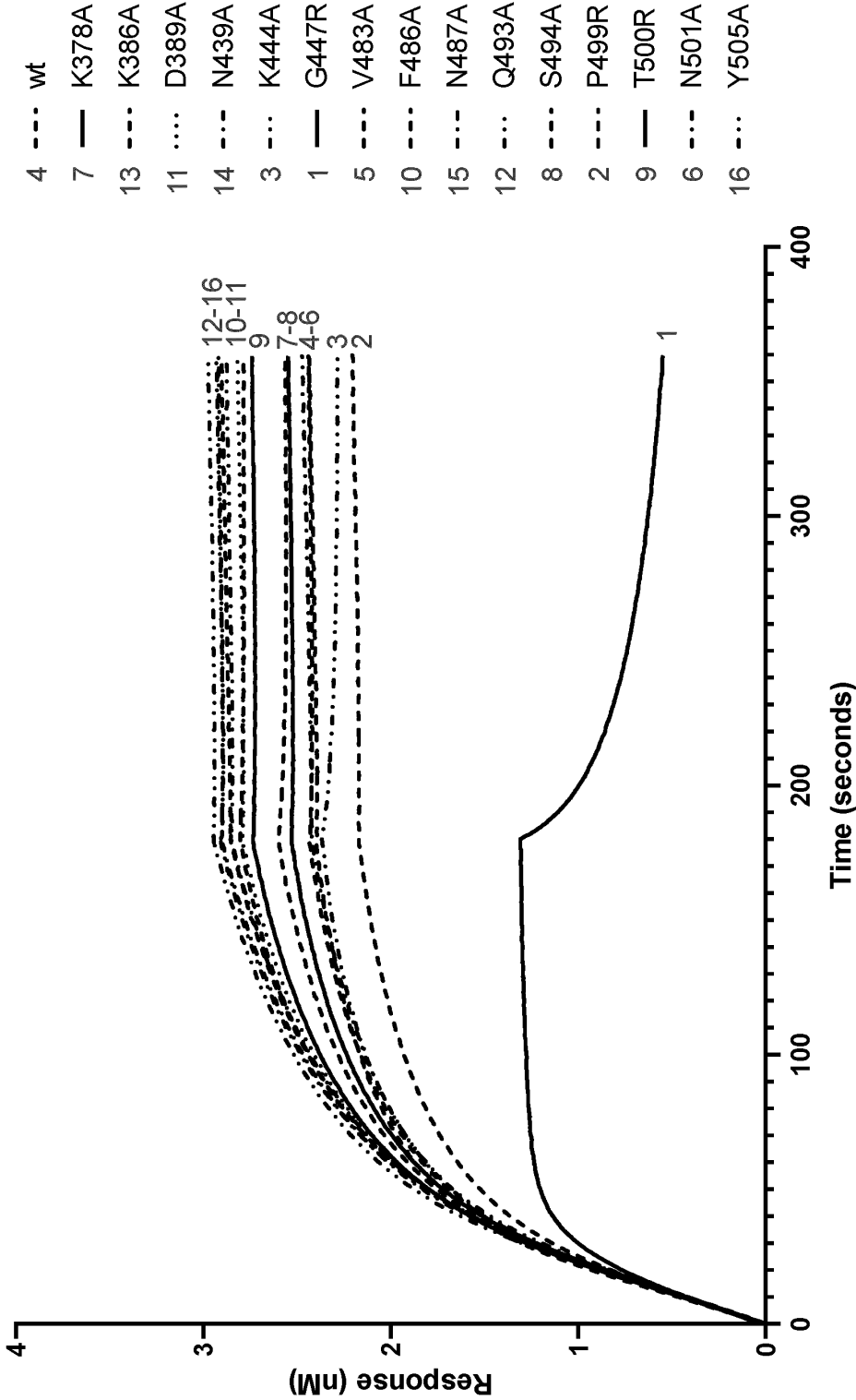


Fig. 6E

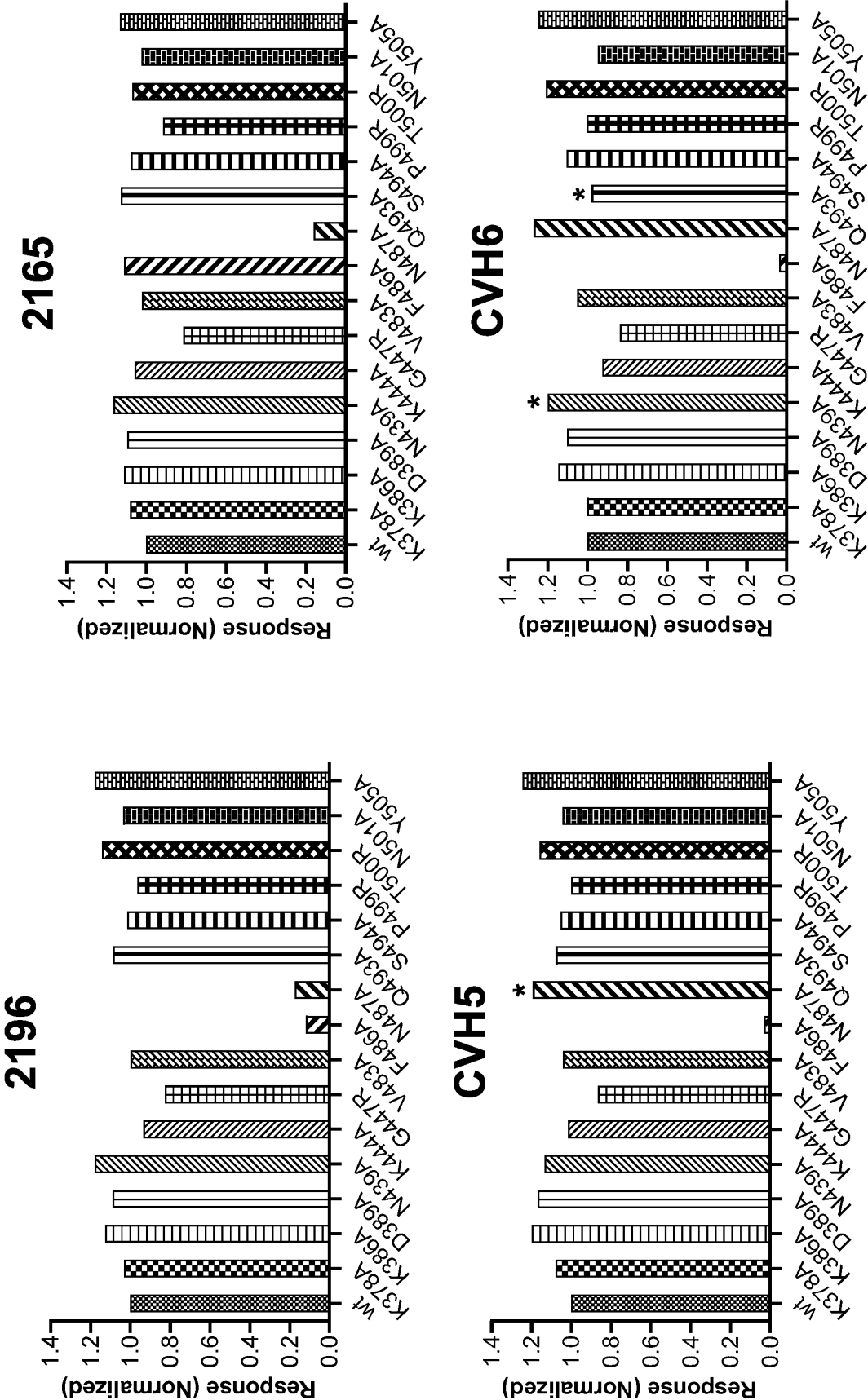


Fig. 7

* = altered kinetics indicates proximal residue

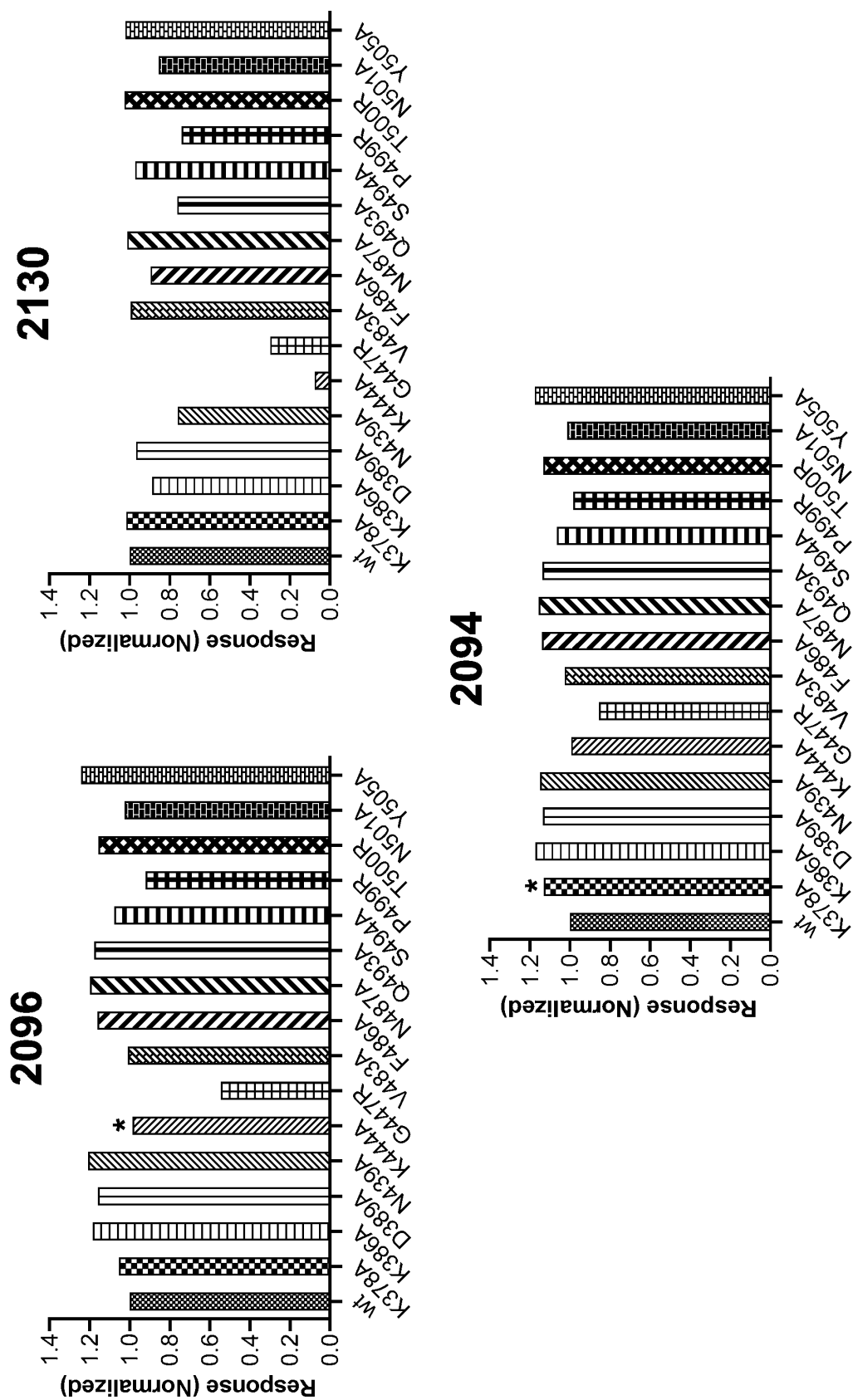


Fig. 8

* = altered kinetics indicates proximal residue

