

FR to Ab class 1

Wuhan-Hu-1	-	1.00	9.87	61.85	61.85	9.29	9.02	30.85	221.15	170.76
Alpha	-	9.87	1.00	47.32	47.32	20.07	19.78	19.10	192.31	146.44
Beta	-	61.85	47.32	1.00	1.00	76.89	76.46	37.77	98.42	67.28
Gamma	-	61.85	47.32	1.00	1.00	76.89	76.46	37.77	98.42	67.28
Delta	-	9.29	20.07	76.89	76.89	1.00	13.79	43.01	207.69	195.92
Lambda	-	9.02	19.78	76.46	76.46	13.79	1.00	42.65	250.13	195.19
Mu	-	30.85	19.10	37.77	37.77	43.01	42.65	1.00	173.36	106.93
Omicron	-	221.15	192.31	98.42	98.42	207.69	250.13	173.36	1.00	214.62
PMS20	-	170.76	146.44	67.28	67.28	195.92	195.19	106.93	214.62	1.00
		Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Mu	Omicron	PMS20

FR to Ab class 2

Wuhan-Hu-1	-	1.00	1.26	62.14	62.14	25.55	69.12	71.64	143.80	123.70
Alpha	-	1.26	1.00	60.12	60.12	27.13	71.25	69.50	140.76	120.90
Beta	-	62.14	60.12	1.00	1.00	103.56	174.21	11.02	50.36	37.97
Gamma	-	62.14	60.12	1.00	1.00	103.56	174.21	11.02	50.36	37.97
Delta	-	25.55	27.13	103.56	103.56	1.00	38.45	115.49	197.80	180.84
Lambda	-	69.12	71.25	174.21	174.21	38.45	1.00	190.27	312.30	278.31
Mu	-	71.64	69.50	11.02	11.02	115.49	190.27	1.00	66.93	30.33
Omicron	-	143.80	140.76	50.36	50.36	197.80	312.30	66.93	1.00	101.48
PMS20	-	123.70	120.90	37.97	37.97	180.84	278.31	30.33	101.48	1.00
		Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Mu	Omicron	PMS20

FR to Ab class 3

Wuhan-Hu-1	-	1.00	7.38	23.31	23.31	22.56	34.09	56.42	266.29	171.63
Alpha	-	7.38	1.00	14.83	14.83	31.61	43.99	45.66	241.10	152.95
Beta	-	23.31	14.83	1.00	1.00	51.14	65.35	31.61	197.04	120.27
Gamma	-	23.31	14.83	1.00	1.00	51.14	65.35	31.61	197.04	120.27
Delta	-	22.56	31.61	51.14	51.14	1.00	15.32	91.71	325.92	232.91
Lambda	-	34.09	43.99	65.35	65.35	15.32	1.00	109.74	391.16	264.22
Mu	-	56.42	45.66	31.61	31.61	91.71	109.74	1.00	290.92	73.65
Omicron	-	266.29	241.10	197.04	197.04	325.92	391.16	290.92	1.00	378.85
PMS20	-	171.63	152.95	120.27	120.27	232.91	264.22	73.65	378.85	1.00
		Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Mu	Omicron	PMS20

FR to Ab class 4

Wuhan-Hu-1	-	1.00	13.31	34.45	34.45	5.83	6.24	27.07	202.09	74.63
Alpha	-	13.31	1.00	18.66	18.66	19.91	20.38	12.14	166.61	54.12
Beta	-	34.45	18.66	1.00	1.00	42.29	42.85	14.74	124.69	29.88
Gamma	-	34.45	18.66	1.00	1.00	42.29	42.85	14.74	124.69	29.88
Delta	-	5.83	19.91	42.29	42.29	1.00	5.73	34.48	203.57	84.81
Lambda	-	6.24	20.38	42.85	42.85	5.73	1.00	35.00	220.96	85.53
Mu	-	27.07	12.14	14.74	14.74	34.48	35.00	1.00	157.81	37.43
Omicron	-	202.09	166.61	124.69	124.69	203.57	220.96	157.81	1.00	142.82
PMS20	-	74.63	54.12	29.88	29.88	84.81	85.53	37.43	142.82	1.00
		Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Mu	Omicron	PMS20