FR to Ab A	FR to Ab B	FR to Ab C	FR to Ab D1	FR to Ab D2	FR to Ab E1
Wuhan-Hu-1 - 1.00 7.05 63.59 63.59 0.95 2.31 37.04 193.00 222.01	Wuhan-Hu-1 - 1.00 2.93 31.98 31.98 12.17 7.75 34.62 149.10 94.19	Wuhan-Hu-1 - 1.00 0.79 60.99 60.99 29.87 74.72 71.90 132.67 112.95	Wuhan-Hu-1 - 1.00 6.20 27.50 27.50 31.36 63.09 85.01 208.92 140.56	Wuhan-Hu-1 - 1.00 19.12 26.81 26.81 2.42 3.07 35.35 252.06 117.41	Wuhan-Hu-1 - 1.00 6.38 22.36 22.36 10.43 9.47 75.20 304.26 180.24
Alpha - 7.05 1.00 52.82 52.82 8.07 9.52 28.02 173.71 200.81	Alpha - 2.93 1.00 28.22 28.22 15.46 10.91 30.78 142.00 88.66	Alpha - 0.79 1.00 59.73 59.73 30.89 76.09 70.56 130.86 111.29	Alpha - 6.20 1.00 20.06 20.06 39.51 73.20 74.21 190.89 126.52	Alpha - 19.12 1.00 6.45 6.45 22.00 22.78 13.62 195.54 82.50	Alpha - 6.38 1.00 15.01 15.01 17.48 16.46 64.68 280.00 163.42
Beta - 63.59 52.82 1.00 1.00 65.15 67.36 56.98 79.11 96.84	Beta - 31.98 28.22 1.00 1.00 48.05 42.21 9.21 88.74 47.13	Beta - 60.99 59.73 1.00 1.00 109.08 181.27 8.52 44.53 32.28	Beta - 27.50 20.06 1.00 1.00 67.49 107.95 46.08 142.28 88.67	Beta - 26.81 6.45 1.00 1.00 29.88 30.71 7.50 177.63 71.44	Beta - 22.36 15.01 1.00 1.00 35.11 33.95 56.17 230.40 129.04
Gamma - 63.59 52.82 1.00 1.00 65.15 67.36 56.98 79.11 96.84	Gamma - 31.98 28.22 1.00 1.00 48.05 42.21 9.21 88.74 47.13	Gamma - 60.99 59.73 1.00 1.00 109.08 181.27 8.52 44.53 32.28	Gamma - 27.50 20.06 1.00 1.00 67.49 107.95 46.08 142.28 88.67	Gamma - 26.81 6.45 1.00 1.00 29.88 30.71 7.50 177.63 71.44	Gamma - 22.36 15.01 1.00 1.00 35.11 33.95 56.17 230.40 129.04
Delta - 0.95 8.07 65.15 65.15 1.00 2.48 38.34 192.49 225.08	Delta - 12.17 15.46 48.05 48.05 1.00 14.22 51.00 134.98 117.83	Delta - 29.87 30.89 109.08 109.08 1.00 40.07 123.25 190.22 176.56	Delta - 31.36 39.51 67.49 67.49 1.00 25.81 143.04 300.47 216.01	Delta - 2.42 22.00 29.88 29.88 1.00 2.47 38.63 254.12 122.66	Delta - 10.43 17.48 35.11 35.11 1.00 7.25 93.47 312.66 209.46
Lambda - 2.31 9.52 67.36 67.36 2.48 1.00 40.20 199.76 229.43	Lambda - 7.75 10.91 42.21 42.21 14.22 1.00 45.05 168.40 109.24	Lambda - 74.72 76.09 181.27 181.27 40.07 1.00 200.33 306.52 272.06	Lambda - 63.09 73.20 107.95 107.95 25.81 1.00 201.74 403.81 292.33	Lambda - 3.07 22.78 30.71 30.71 2.47 1.00 39.51 262.88 124.08	Lambda - 9.47 16.46 33.95 33.95 7.25 1.00 91.80 342.56 206.78
Mu - 37.04 28.02 56.98 56.98 38.34 40.20 1.00 181.16 134.98	Mu - 34.62 30.78 9.21 9.21 51.00 45.05 1.00 106.12 44.26	Mu - 71.90 70.56 8.52 8.52 123.25 200.33 1.00 56.85 23.88	Mu - 85.01 74.21 46.08 46.08 143.04 201.74 1.00 253.93 30.03	Mu - 35.35 13.62 7.50 7.50 38.63 39.51 1.00 198.44 60.62	Mu - 75.20 64.68 56.17 56.17 93.47 91.80 1.00 415.98 59.95
Omicron - 193.00 173.71 79.11 79.11 192.49 199.76 181.16 1.00 228.07	Omicron - 149.10 142.00 88.74 88.74 134.98 168.40 106.12 1.00 161.95	Omicron - 132.67 130.86 44.53 44.53 190.22 306.52 56.85 1.00 87.96	Omicron - 208.92 190.89 142.28 142.28 300.47 403.81 253.93 1.00 334.69	Omicron - 252.06 195.54 177.63 177.63 254.12 262.88 198.44 1.00 355.81	Omicron - 304.26 280.00 230.40 230.40 312.66 342.56 415.98 1.00 347.02
PMS20 - 222.01 200.81 96.84 96.84 225.08 229.43 134.98 228.07 1.00	PMS20 - 94.19 88.66 47.13 47.13 117.83 109.24 44.26 161.95 1.00	PMS20 - 112.95 111.29 32.28 32.28 176.56 272.06 23.88 87.96 1.00	PMS20 - 140.56 126.52 88.67 88.67 216.01 292.33 30.03 334.69 1.00	PMS20 - 117.41 82.50 71.44 71.44 122.66 124.08 60.62 355.81 1.00	PMS20 - 180.24 163.42 129.04 129.04 209.46 206.78 59.95 347.02 1.00
Alpha - Beta - Delta - Mu -	Alpha - Alpha - Beta - Delta - micron -	Alpha - Beta - Beta - Delta - Mu - Mu - Mu -	Alpha - Beta - Delta - Mu -	Alpha - Beta - Delta - Mu -	Alpha - Beta - Delta - Mu -
Wuhar Ga	Wuhar Or La	Wuhar Garan	Wuhar Or La	Wuhar Or La	Wuhar Or La
FR to Ab E2.1	FR to Ab E2.2	FR to Ab E3	FR to Ab F1	FR to Ab F2	FR to Ab F3
Wuhan-Hu-1 - 1.00 1.00 11.15 11.15 8.86 19.77 39.76 46.46 100.67	Wuhan-Hu-1 - 1.00 23.02 49.64 49.64 10.36 22.14 38.98 236.38 95.88	Wuhan-Hu-1 - 1.00 2.26 9.74 9.74 2.14 2.14 11.36 44.70 25.36	Wuhan-Hu-1 - 1.00 4.22 14.85 14.85 9.74 7.69 16.65 119.52 68.11	Wuhan-Hu-1 - 1.00 4.25 14.83 14.83 1.60 2.28 16.18 114.52 38.57	Wuhan-Hu-1 - 1.00 37.94 106.76 106.76 5.38 4.98 59.76 798.65 252.71
Alpha - 1.00 1.00 11.15 11.15 8.86 19.77 39.76 46.46 100.67	Alpha - 23.02 1.00 21.64 21.64 35.77 50.25 12.97 173.43 59.22	Alpha - 2.26 1.00 7.32 7.32 4.44 4.44 8.90 41.51 22.59	Alpha - 4.22 1.00 10.20 10.20 14.37 12.24 11.93 110.64 61.30	Alpha - 4.25 1.00 10.15 10.15 5.92 6.64 11.44 105.77 32.91	Alpha - 37.94 1.00 49.89 49.89 45.36 44.81 15.82 551.48 155.70
Beta - 11.15 11.15 1.00 1.00 20.99 33.12 25.74 31.77 80.55	Beta - 49.64 21.64 1.00 1.00 65.14 82.76 19.94 124.80 30.90	Beta - 9.74 7.32 1.00 1.00 12.09 12.09 5.00 31.86 14.23	Beta - 14.85 10.20 1.00 1.00 26.04 23.69 5.94 91.14 46.37	Beta - 14.83 10.15 1.00 1.00 16.67 17.46 9.37 86.81 20.67	Beta - 106.76 49.89 1.00 1.00 117.88 117.06 42.42 334.63 70.59
Gamma - 11.15 11.15 1.00 1.00 20.99 33.12 25.74 31.77 80.55	Gamma - 49.64 21.64 1.00 1.00 65.14 82.76 19.94 124.80 30.90	Gamma - 9.74 7.32 1.00 1.00 12.09 12.09 5.00 31.86 14.23	Gamma - 14.85 10.20 1.00 1.00 26.04 23.69 5.94 91.14 46.37	Gamma - 14.83 10.15 1.00 1.00 16.67 17.46 9.37 86.81 20.67	Gamma - 106.76 49.89 1.00 1.00 117.88 117.06 42.42 334.63 70.59
Delta - 8.86 8.86 20.99 20.99 1.00 11.58 52.13 57.20 118.44	Delta - 10.36 35.77 65.14 65.14 1.00 10.67 53.38 271.23 116.17	Delta - 2.14 4.44 12.09 12.09 1.00 3.38 13.74 42.96 28.04	Delta - 9.74 14.37 26.04 26.04 1.00 7.23 28.01 120.46 84.48	Delta - 1.60 5.92 16.67 16.67 1.00 2.31 18.03 114.47 40.78	Delta - 5.38 45.36 117.88 117.88 1.00 4.75 68.35 800.63 271.68
Lambda - 19.77 19.77 33.12 33.12 11.58 1.00 67.39 75.41 140.34					
	Lambda - 22.14 50.25 82.76 82.76 10.67 1.00 69.75 310.84 139.24	Lambda - 2.14 4.44 12.09 12.09 3.38 1.00 13.74 47.80 28.04	Lambda - 7.69 12.24 23.69 23.69 7.23 1.00 25.62 136.41 81.04	Lambda - 2.28 6.64 17.46 17.46 2.31 1.00 18.83 119.42 41.73	Lambda - 4.98 44.81 117.06 117.06 4.75 1.00 67.72 843.41 270.27
Mu - 39.76 39.76 25.74 25.74 52.13 67.39 1.00 65.69 43.58	Lambda - 22.14 50.25 82.76 82.76 10.67 1.00 69.75 310.84 139.24 Mu - 38.98 12.97 19.94 19.94 53.38 69.75 1.00 169.61 40.94				Lambda - 4.98
		Lambda - 2.14 4.44 12.09 12.09 3.38 1.00 13.74 47.80 28.04	Lambda - 7.69 12.24 23.69 23.69 7.23 1.00 25.62 136.41 81.04	Lambda - 2.28 6.64 17.46 17.46 2.31 1.00 18.83 119.42 41.73	
Mu - 39.76 39.76 25.74 25.74 52.13 67.39 1.00 65.69 43.58	Mu - 38.98 12.97 19.94 19.94 53.38 69.75 1.00 169.61 40.94	Lambda - 2.14 4.44 12.09 12.09 3.38 1.00 13.74 47.80 28.04 Mu - 11.36 8.90 5.00 5.00 13.74 13.74 1.00 38.45 12.57	Lambda - 7.69 12.24 23.69 23.69 7.23 1.00 25.62 136.41 81.04 Mu - 16.65 11.93 5.94 5.94 28.01 25.62 1.00 102.49 44.11	Lambda - 2.28 6.64 17.46 17.46 2.31 1.00 18.83 119.42 41.73 Mu - 16.18 11.44 9.37 9.37 18.03 18.83 1.00 104.32 19.27	Mu - 59.76 15.82 42.42 42.42 68.35 67.72 1.00 519.01 120.77