

Murad M. W. et. al.										COVID-19 INFECTION OR VACCINATION DOES NOT PROVIDE CROSS-PROTECTION AGAINST HUMAN METAPNEUMOVIRUS INFECTION																													
Accession	PV206817.1		PV178241.1		PV178224.1		PV052201.1		PV260519.1		PV052225.1		PV052140.1		PV052192.1		PV081662.1		PV052227.1		PV260518.1		PV052135.1		PP763212.1		PP315925.1		PV081666.1		PV081665.1		PV052230.1		PP086007.1				
PV206817.1	100	99.73	99.66	99.21	99.24	99.17	99.07	98.57	98.75	98.2	98.15	98.1	98	97.86	97.61	94.6	94.63	91.98	80.75	81.03	81.08	81	80.94	81.02	81.1	77.67	80.92	80.7	81	45.84	45.82	45.82	45.8	45.8	45.83	45.79			
PV178241.1	99.73	100	99.89	99.42	99.48	99.39	99.29	98.8	98.97	98.44	98.36	98.32	98.21	98.07	97.81	94.81	94.83	92.08	80.87	81.13	81.19	81.12	80.88	81.12	81.22	77.7	81.03	80.81	81.12	45.83	45.82	45.81	45.8	45.79	45.82	45.78			
PV178224.1	99.66	99.89	100	99.42	99.46	99.38	99.28	98.79	98.97	98.43	98.36	98.31	98.21	98.07	97.82	94.81	94.83	92.12	80.86	81.13	81.19	81.13	80.89	81.13	81.22	77.69	81.05	80.83	81.13	45.84	45.83	45.83	45.81	45.81	45.84	45.79			
PV052201.1	99.21	99.42	99.42	100	99.44	99.33	99.23	98.75	98.98	98.3	98.33	98.24	98.18	97.98	97.84	94.81	94.85	92.16	80.84	81.17	81.23	81.13	80.95	81.18	81.23	77.77	81.06	80.85	81.14	45.67	45.66	45.65	45.64	45.64	45.67	45.62			
PV260519.1	99.24	99.48	99.46	99.44	100	99.43	99.31	98.82	98.98	98.48	98.41	98.36	98.26	98.09	97.81	94.81	94.85	92.14	80.87	81.16	81.21	81.13	80.95	81.16	81.21	77.7	81.05	80.84	81.14	45.78	45.77	45.76	45.75	45.74	45.77	45.73			
PV052225.1	99.17	99.39	99.38	99.33	99.43	100	99.73	99.25	98.97	98.4	98.4	98.33	98.29	98.1	97.87	94.84	94.9	92.16	80.88	81.14	81.18	81.05	80.86	81.11	81.18	77.66	81.02	80.79	81.09	45.63	45.63	45.62	45.6	45.59	45.62	45.58			
PV052140.1	99.07	99.29	99.28	99.23	99.31	99.73	100	99.51	98.86	98.3	98.3	98.24	98.2	97.98	97.77	94.75	94.8	92.08	80.85	81.13	81.2	81.03	80.84	81.11	81.19	77.67	81.03	80.8	81.11	45.59	45.57	45.57	45.55	45.55	45.58	45.53			
PV052192.1	98.57	98.8	98.79	98.75	98.82	99.25	99.51	100	98.38	97.8	97.82	97.75	97.72	97.51	97.29	94.26	94.3	91.58	80.33	80.61	80.7	80.49	80.32	80.59	80.67	77.28	80.51	80.28	80.59	45.51	45.5	45.49	45.48	45.47	45.5	45.45			
PV081662.1	98.75	98.97	98.97	98.98	98.98	98.97	98.86	98.38	100	98.06	97.97	97.93	97.86	97.7	98.05	95.13	94.77	92.27	80.9	81.2	81.22	81.28	80.95	81.2	81.27	77.76	81.09	80.88	81.18	45.67	45.66	45.65	45.64	45.64	45.67	45.62			
PV052227.1	98.2	98.44	98.43	98.3	98.48	98.4	98.3	97.8	98.06	100	98.36	98.23	98.11	97.9	97.74	94.83	94.9	92.1	80.86	81.05	81.11	80.97	80.75	81.01	81.07	77.56	80.89	80.69	80.98	45.59	45.59	45.59	45.55	45.55	45.58	45.53			
PV260518.1	98.15	98.36	98.36	98.33	98.41	98.4	98.3	97.82	97.97	98.36	100	99.34	98.31	98.18	97.85	94.99	95.1	92.34	80.94	81.15	81.19	81.12	81.07	81.14	81.22	77.79	81.03	80.82	81.11	45.74	45.74	45.74	45.7	45.7	45.73	45.69			
PV052135.1	98.1	98.32	98.31	98.24	98.36	98.33	98.24	97.75	97.93	98.23	99.34	100	98.27	98.06	97.78	94.91	95.03	92.23	80.96	81.2	81.23	81.16	80.92	81.15	81.22	77.72	81.05	80.84	81.14	45.55	45.56	45.56	45.52	45.51	45.54	45.5			
PP763212.1	98	98.21	98.21	98.18	98.26	98.29	98.2	97.72	97.86	98.11	98.31	98.27	100	98.28	98.02	95.05	95.12	92.23	80.99	81.18	81.21	81.07	80.91	81.14	81.18	77.7	81.06	80.86	81.14	45.56	45.57	45.57	45.53	45.52	45.55	45.51			
PP315925.1	97.86	98.07	98.07	97.98	98.09	98.1	97.98	97.51	97.7	97.9	98.18	98.06	98.28	100	97.95	95.35	95.49	92.48	81.28	81.29	81.3	81.17	81.17	81.22	81.3	77.88	81.15	80.93	81.22	45.54	45.55	45.55	45.51	45.51	45.54	45.49			
PV081666.1	97.61	97.81	97.82	97.84	97.81	97.87	97.77	97.29	98.05	97.74	97.85	97.78	98.02	97.95	100	95.37	94.96	92.42	81.06	81.21	81.28	81.23	80.96	81.19	81.25	77.76	81.04	80.85	81.14	45.77	45.77	45.77	45.76	45.73	45.76	45.72			
PV081665.1	94.6	94.81	94.81	94.81	94.81	94.84	94.75	94.26	95.13	94.83	94.99	94.91	95.05	95.35	95.37	100	98.73	92.51	80.89	81.03	81.08	81.05	80.76	80.99	80.96	77.53	80.78	80.58	80.86	45.29	45.27	45.27	45.28	45.26	45.29	45.24			
PV052230.1	94.63	94.83	94.83	94.85	94.85	94.9	94.8	94.3	94.77	94.9	95.1	95.03	95.12	95.49	94.96	98.73	100	92.33	80.87	81.03	81.06	80.99	80.76	80.96	80.92	77.53	80.78	80.57	80.85	45.29	45.28	45.28	45.27	45.25	45.28	45.24			
PP086007.1	91.98	92.08	92.12	92.16	92.14	92.16	92.08	91.58	92.27	92.1	92.34	92.23	92.23	92.48	92.42	92.51	92.33	100	81.22	81.11	81.22	81.21	81.02	81.16	81.22	77.77	81.06	80.83	81.13	45.3	45.31	45.31	45.27	45.26	45.27	45.24			
PP315926.1	80.75	80.87	80.86	80.84	80.87	80.88	80.85	80.33	80.9	80.86	80.94	80.96	80.99	81.28	81.06	80.89	80.87	81.22	100	91.53	91.46	91.48	91.94	91.42	91.37	87.75	91.38	91.18	91.52	44.9	44.88	44.88	44.88	44.87	44.88	44.88			
PV081667.1	81.03	81.13	81.13	81.17	81.16	81.14	81.13	80.61	81.2	81.05	81.15	81.2	81.18	81.29	81.21	81.03	81.03	81.11	91.53	100	98.62	97.71	98.46	97.72	97.57	93.62	97.76	97.39	97.76	45.24	45.22	45.21	45.22	45.21	45.22	45.2			
PV052226.1	81.08	81.19	81.19	81.23	81.21	81.18	81.2	80.7	81.22	81.11	81.19	81.23	81.21	81.3	81.28	81.08	8																						