

## Supplementary Materials

**Supplementary Table S1.** Sequence Read Archive (SRA) and GenBank accessions for MPXV sequencing raw reads and consensus genomes with indicated mutations. Mutation types and genomic positions relative to ON563414.3 are indicated. SRA accessions for raw reads from the resequencing of variants are indicated by asterisks.

Sample	GenBank Accession	SRA Accession	Mutation Type
WA-UW-074978	OP434519.1	SRR20913436 SRR21620332*	Deletion 185572-192453
WA-UW-096851	OP681776.1	SRR21966445 SRR22019271*	Deletion 13224-17428
WA-UW-082786	OP650027.1	SRR21897921 SRR22019272*	Deletion 11343-12255
OH-UW-070197	OP442936.1	SRR21236090 SRR21620337*	Deletion C11764
OH-UW-070832	OP442937.1	SRR20913441 SRR21620331*	G5612A, C191594T
OH-UW-071048	OP442938.1	SRR21598457 SRR21620329*	Insertion A128943
OH-UW-078962	OP442939.1	SRR21236093 SRR21620338*	G5612A, C191594T
OH-UW-086376	OP442940.1	SRR21236113 SRR21620340*	G5612A, C191594T
WA-UW-082488	OP442941.1	SRR21236117 SRR21620341*	G5612A, C191594T
WA-UW-084331	OP442942.1	SRR21236107 SRR21620330*	C25984T
WA-UW-086026	OP442943.1	SRR21236097 SRR21620339*	G5612A, C191594T
WA-UW-081469	OP442944.1	SRR21524980 SRR21620335*	C155347T
WA-UW-083698	OP442945.1	SRR21524973 SRR21620333*	C151619T
WA-UW-085393	OP442946.1	SRR21524975 SRR21620336*	G1529A, C195677T
WA-UW-088793	OP442947.1	SRR21524979 SRR21620334*	C151619T
WA-UW-080247	OP628437.1	SRR21887143 SRR22019269*	G5612A, C191594T
WA-UW-085241	OP628463.1	SRR21887132 SRR22019268*	G1529A, G12116A, C195677T
WA-UW-093570	OP628490.1	SRR21887131 SRR22019267*	C25984T
WA-UW-082515	OP628447.1	SRR21887120 SRR22019266*	G5612A, C191594T

WA-UW-082002	OP628445.1	SRR21887118 SRR22019265*	G1529A, G12116A, C195677T
WA-UW-091243	OP681773.1	SRR21966448 SRR22019264*	G5612A, C191594T
WA-UW-092889	OP681774.1	SRR21966447 SRR22019263*	G5612A, C191594T
WA-UW-098497	OP681775.1	SRR21966446 SRR22019262*	G5612A, C191594T
WA-UW-092113	OP681777.1	SRR21966444 SRR22019270*	C25984T
WA-UW-085088	OP681772.1	SRR21966449 SRR22019273*	C25984T
WA-UW-074184	OP169341.1	SRR20913437	
WA-UW-071966	OP169344.1	SRR20913433	
WA-UW-091072	OP715788.1	SRR22033832	
WA-UW-095695	OP715789.1	SRR22033831	
WA-UW-087572	OP628476.1	SRR21887146	
WA-UW-081603	OP628444.1	SRR21887145	
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WA-UW-078327	OP055801.1	SRR20653195	
Unknown-UW-077794	OP055802.1	SRR20653194	
Unknown-UW-073599	OP055803.1	SRR20653193	
WA-UW-076724	OP055804.1	SRR20653192	
Unknown-UW-076991	OP055805.1	SRR20653191	
WA-UW-079141	OP055806.1	SRR20653190	
WA-UW-074372	OP055807.1	SRR20653189	
WA-UW-075986	OP055808.1	SRR20653188	
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OH-UW-074058	OP169338.1	SRR20913440	
OH-UW-076485	OP169339.1	SRR20913439	
WA-UW-074224	OP169340.1	SRR20913438	
OH-UW-072752	OP169342.1	SRR20913435	
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WA-UW-075687	OP169345.1	SRR20913443	
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