



Ct<30-35

Multiplex tiled-  
amplicon  
sequencing

DNA extraction method  
**Several primer schema available**  
 Library prep kit (Sequencing platform)  
 Fragmentation/tagmentation (optional)  
 Sequencing platform and chemistry (PE/SE, read length)

artic-mpxv-illumina-nf (ARTIC network)  
 ViralFlow (FioCruz)  
 Viral-ngs -assemble\_refbased (Broad)  
 CZ iD - consensus\_genome (CZ BioHub)  
 ViralRecon (nf-core)  
 TheiaCov\_Illumina\_pe  
 artic-mpxv-nf (ARTIC network)  
 TheiaCov-ONT (Theiagen)

squirrel-nf

squirrel-nf  
ancestral  
reconstruction

Ct<31

Isothermal multiple  
displacement  
amplification (MDA)

DNA extraction method  
**One primer scheme available**  
 Library prep kit (Sequencing platform)  
 Fragmentation/tagmentation (optional)  
 Sequencing platform and chemistry (PE/SE, read length)

wf-mpx (EPI2ME)

Nextclade

Nextclade

Nextclade

Ct<25

Target enrichment/  
capture

DNA extraction method  
**Custom panels and several commercial panels, e.g.**  
 • Twist Comprehensive Viral Research Panel (Illumina/ONT)  
 • Illumina Viral Surveillance Panel (Illumina only)  
 Library prep kit (Sequencing platform)  
 Sequencing platform and chemistry (PE/SE, read length)

Viral-ngs -assemble\_denovo (Broad)  
 ViralRecon (nf-core)  
 GeVarLi (Afroscreen)  
 CZ iD - Viral consensus\_genome (CZ BioHub)

Nextstrain (Augur)  
command line  
interface (CLI) with  
MPXV build

Ct<20

Metagenomics  
(untargeted)

DNA extraction method  
 Library prep kit (Sequencing platform)  
 Sequencing platform and chemistry (PE/SE, read length)

wf-mpx (EPI2ME)  
 Viral-ngs - assemble\_denovo (Broad)  
 ViralRecon (nf-core)  
 CZ iD - short-read-mgs (CZ BioHub)