

# genesig<sup>®</sup>

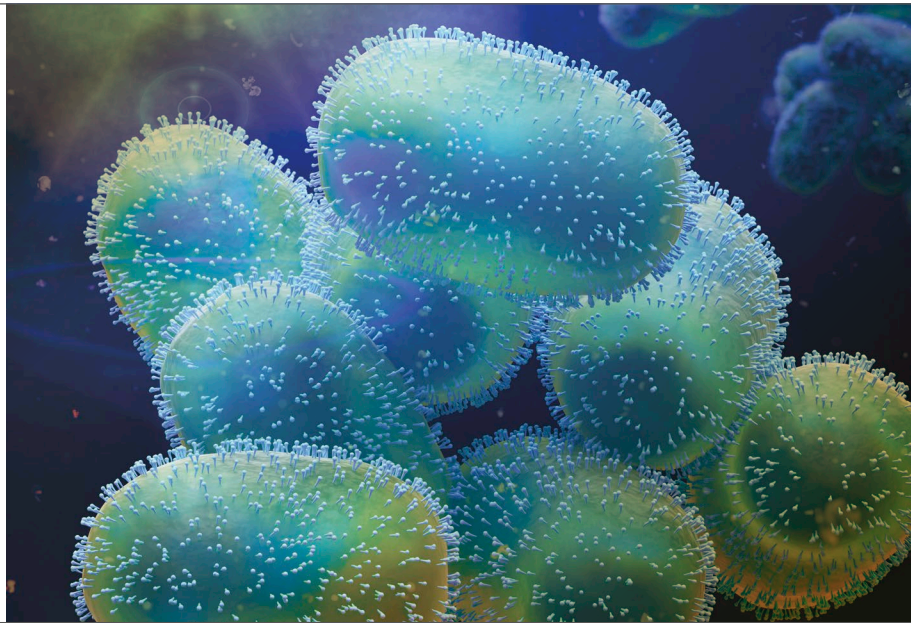
## Mpox qPCR

PRIMER  
DESIGN

Available in both Advanced and Complete kit formats:

- ✓ R00948 genesig<sup>®</sup> Advanced Kit for Mpox 2G
- ✓ R01311 genesig<sup>®</sup> Complete Kit for Mpox 2G

The recent mpox outbreak has been declared a public health emergency by the WHO.



### Emergency Response

Primerdesign is ready to support the emergency response with our **genesig<sup>®</sup> Complete Kit for Mpox 2G**, as well as our **genesig<sup>®</sup> Advanced DNA Kit for Mpox 2G**.

Our Complete multiplex kit provides you with everything needed for rapid and accurate qPCR detection of mpox (clades 1 and 2) and orthopox.

### Performance

Recent data has confirmed that the performance of our kit is maintained when tested with the sequence of the Clade 1b variant.

The Primerdesign genesig<sup>®</sup> Mpox Advanced and Complete Kits are designed for the semi-quantitative and qualitative detection of the monkeypox genome from DNA extracted from human serum, lesion exudate, or scab samples from human/animal patients of all ages.

**Detects  
>99.9% of all  
full length  
sequences**

### Key Benefits

1. Broad detection profile: **The genesig<sup>®</sup> Mpox 2G kit detects >99.9% of all full length sequences on the GISAID EpiPox™ database from both clades I and II. This includes the newly identified clade 1b (as of August 2024)**
2. The product has been multiplexed to specifically detect the monkeypox virus i.e. Clade I (previously called the Congo Basin Clade) and Clade II (previously called West African clade, including subclade IIa and IIb) and orthopox virus
3. Dynamic range of test: Can detect less than 100 copies of the target template
4. Advanced and Complete Kit with open platform compatibility
5. Results available within 90 minutes
6. No cold chain shipping



[primerdesign.co.uk](https://primerdesign.co.uk)



## Product Summary

Kit Format	Target Genes	Sample Types	Instrumentation	Product Codes	Pack Size
genesig® Advanced Kit for Mpox 2G	RP0132 (Orthopox) OPG168/OPG169 (Mpox)	High quality DNA extracted from Human serum, lesion exudate, or scab samples from human/ animal patients of all ages	Open platform	R00948	150 reactions
genesig® Complete kit for Mpox 2G				R01311	150 reactions (including MasterMix)

## Clade I and Clade II Origins

There are two known clades of Monkeypox Virus: clade I, previously called the Congo Basin clade; and clade II, previously called the West African clade, which includes subclades IIa and IIb. Most cases are reported from the Democratic Republic of the Congo and Nigeria. Since the outbreak of clade 2 in May 2022, cases of have been reported in Europe, North America, and other parts of the globe.

In a recent situational update from the WHO, 99,176 cases have been reported globally and 208 deaths across 116 affected countries, with areas of high risk being identified as Eastern Democratic Republic of the Congo and neighbouring countries where clade 1b is prevalent.

**Ensure your lab is ready to support this growing public health emergency with our specific and accurate qPCR kits, ready to be dispatched globally with no cold chain shipping required.**



For our full list of human health pathogen kits please visit [www.primerdesign.co.uk](http://www.primerdesign.co.uk) or contact [enquiry@primerdesign.co.uk](mailto:enquiry@primerdesign.co.uk)

Contact us today to place your order: [customer.services@novacyt.com](mailto:customer.services@novacyt.com)  
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