DA-TF/MPX-100 V1/1

DaAnGene



# DA143X
# Detection Kit for **Monkeypox Virus**
## DNA (PCR-Fluorescence Probing)

Decode Genetic Life. Assure Human Health.

**1-3%**
Death rate

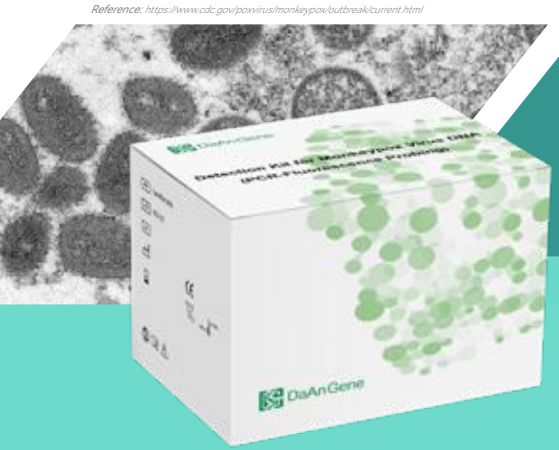
**West African Clade**
The West African Clade is currently spreading beyond Africa

**10%**
Death rate

**Central African Clade**

Monkeypox is a viral zoonosis (a virus transmitted to humans from animals) with symptoms very similar to those seen in the past in smallpox patients, typically presents clinically with fever, rash and swollen lymph nodes and may lead to a range of medical complications. It is caused by the monkeypox virus which belongs to the orthopoxvirus genus of the Poxviridae family. There are two clades of monkeypox virus: the West African clade and the Congo Basin (Central African) clade. The name monkeypox originates from the initial discovery of the virus in monkeys in a Danish laboratory in 1958. The first human case was identified in a child in the Democratic Republic of the Congo in 1970.

*Reference: https://www.cdc.gov/poxvirus/monkeypox/outbreak/current.html*




https://en.daangene.com/

# Background

## Signs and symptoms



Fever



Rash

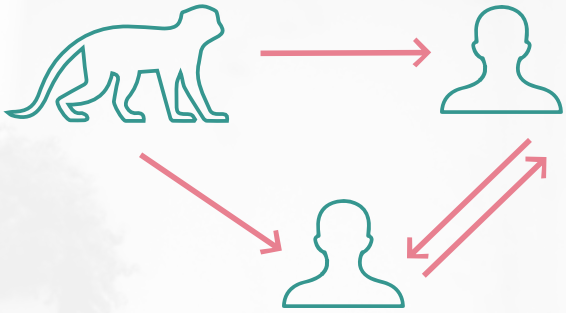


Exhaustion



Swollen lymph nodes

## Transmission



## Diagnosis

Polymerase chain reaction (PCR) is the preferred laboratory test given its accuracy and sensitivity, which is suggested by WHO. Confirmation of monkeypox virus infection is based on nucleic acid amplification testing (NAAT), using **real-time or conventional polymerase chain reaction (PCR) is preferred for detection of unique sequences of viral DNA and can be used alone.**

*Reference: https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON385*
*https://www.who.int/news-room/fact-sheets/detail/monkeypox*
*https://www.who.int/publications/i/item/WHO-MPX-laboratory-2022.1*

***35** min to get PCR result*
*(with AGS8830)*



# Features

### Reliable

Based on WHO recommended diagnosis method: real-time polymerase chain reaction (PCR)

### High Specificity

Highly conservative region of Monkeypox virus gene coding region

### High Accuracy

Involved endogenous internal to monitor the whole NAAT procedure from sampling to PCR result

### Universal

Compatible with mainstream real-time fluorescent PCR system

# Specifications

| | |
|---|---|
| **Test Principle** | Real-time fluorescent PCR |
| **Specimen type** | Rashes, scabs, vesicle fluid, pustular fluid, or whole blood specimens |
| **Fluorescence channel** | FAM: Monkeypox conservative region, VIC: endogenous internal control |
| **LOD** | 200 copies/mL |
| **Storage and shelf life** | -20±5°C, 12 months |
| **Applicable Instruments** | ABI 7500, Roche LightCycler480, AGS4800, AGS8830 |
| **Certificate** | CE |

# Order Information

| Description | Cat. No. | Package |
|---|---|---|
| Detection Kit for Monkeypox Virus DNA (PCR-Fluorescence Probing) | **DA1430** | Large package, 24 tests/kit |
| | **DA1431** | Large package, 48 tests/kit |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