

# PaxView<sup>®</sup> HPV Genotyping MPCR-ULFA Kit

**Simultaneous detection and genotyping of various HPV genotypes, including high-risk HPV types**

PaxView<sup>®</sup> HPV Genotyping MPCR-ULFA Kit is an in vitro diagnostic kit designed for the detection and genotyping of various human papillomavirus (HPV) types in human cervical swab samples through MPCR-ULFA (Multiplex PCR and Universal Lateral Flow Assay).

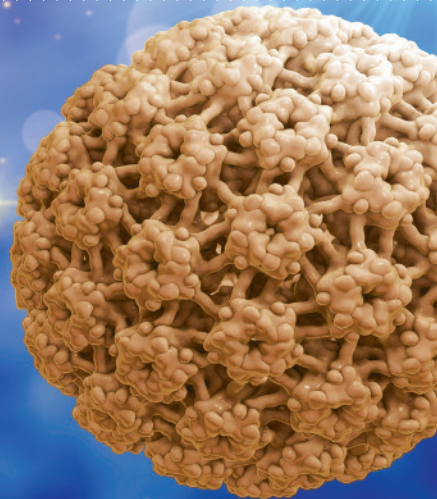


Multiplex MDx

User  
Convenience

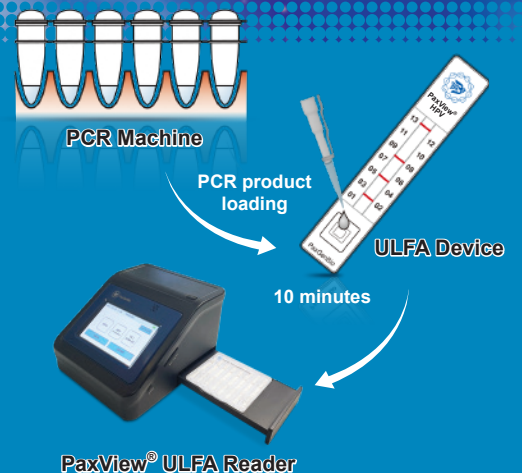
Cost  
Effectiveness

U.S. Patent  
Registered



## ■ Features and Advantages

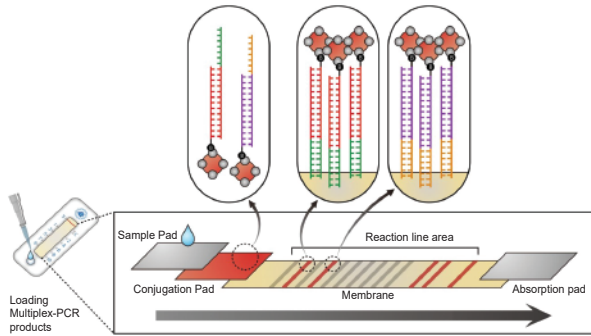
- 3 different panels are available. Each panel detects 10 types of HPV.
  - ① Panel 1 (16, 18, 31, 33, 35, 39, 45, 52, 58, 59)
  - ② Panel 2 (6, 11, 51, 53, 56, 66, 68, 69, 70, 73)
  - ③ Panel 3 (26, 30, 42, 44, 54, 61, 67, 81, 82, 90)
- User-friendly and convenient method.
- Most of the PCR thermocyclers are compatible with the assay.
- ULFA results in 10 minutes.
- Easy analysis is possible with an 8-multi format cartridge and PaxView<sup>®</sup> ULFA Reader.
- Prevention of PCR carry-over contamination with the use of UDG.
- Monitor the entire process including the sample collection, DNA extraction, and PCR through the amplification of the human  $\beta$ -globin gene as an internal control.



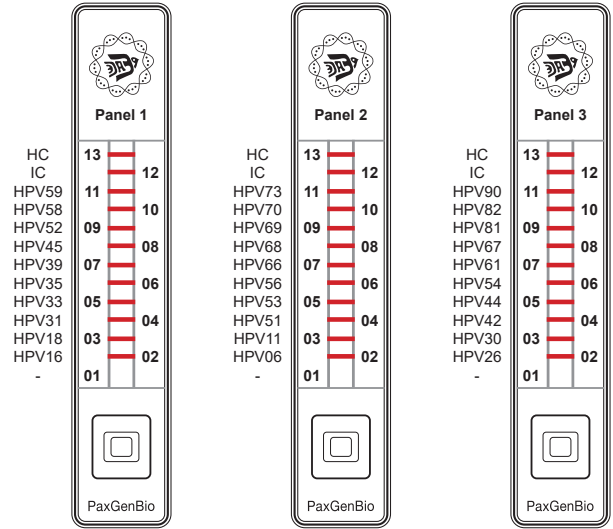
PaxView® HPV Genotyping MPCR-ULFA Kit utilizes PaxGenBio's proprietary technology. PCR primers amplifying target genes include the nucleotide sequence complementary to the universal probe immobilized on the NC membrane. DNA-DNA hybridization between the probe and its complementary sequence of one end of PCR products with lateral flow assay enables the detection of target genes.

**Proprietary technology MPCR-ULFA**

- **Multiplex PCR – ULFA (Universal Lateral Flow Assay)**
  - Convergence of multiplex molecular diagnostics and rapid diagnostic test technology
  - Multiplex PCR amplification and DNA-DNA hybridization with universal lateral flow assay for multiple target detection.
  - South Korea, U.S. patent registration



**Interpretation**



**Smart Molecular Diagnostics Technology MPCR-ULFA**

■ **Major Molecular Diagnostics Technology**

**Conventional PCR**  
 Advantage: Affordable price  
 Disadvantage: a lot of labor/time

**Real-time PCR**  
 Advantage: Easy to use  
 Disadvantages: Difficult to do multiplex over 5-plexes. Expensive reagents

It is required to develop low-cost molecular diagnostic products with maintaining user convenience.

■ **MPCR-ULFA (Universal Lateral Flow Assay)**  
 Novel molecular diagnostics technology with low cost and great convenience

Target nucleic acid amplification and detection with lateral flow assay

Convenient on-site confirmation of PCR results  
 Use on inexpensive universal kit (membrane)

Patent No.: 10-1727111(UPAH Tech.)  
 Patent No.: 10-1795773(CAO Tech.)

■ **Rapid Multiplex Molecular Diagnostics System**

**MPCR (Multiplex PCR)**  
 - Simultaneous detection and identification of multiple pathogens

• High productivity and price competitiveness

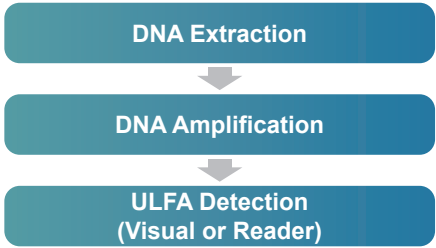
**ULFA (Universal Lateral Flow Assay)**  
 - Rapid detection  
 - Results interpreted visually within 10 minutes

• Increased user convenience

PaxView® HPV 30 Genotyping



**Procedure**



**Order information**

PaxView® HPV Genotyping MPCR-ULFA Kit				
Products	Package / Cat. No.			
	Reader Free		Reader Rec.	
	24T	48T	96T	
HPV 10 Genotyping	V0322T	V0322F	V0322R	V0322N
HPV 20 Genotyping	V0324T	V0324F	V0324R	V0324N
HPV 30 Genotyping	V0326T	V0326F	V0326R	V0326N
Storage	MPCR: -25 ~ -15°C			
	ULFA: 15 ~ 30°C			
Expiration Date	12 months / Shelf life after opening is 3 months			

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