

# **Key Features**



#### **Dual J2 Antibody Usage**

 J2 antibody was used as both Capture antibody and Detection antibody.



## **Short Assay Time**

• 3 hours



#### Wide Linear Range

• 0.123-30 ng/mL

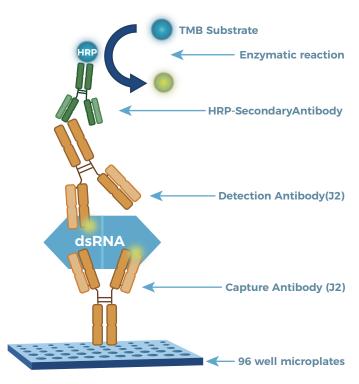


#### Various dsRNA standard options

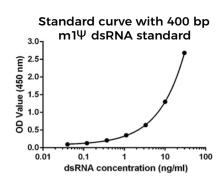
- 400-bp m IΨ dsRNA standards prepared in the kit.
- Individual dsRNA standard with different sequence, length and modification including 5-methylcytidine (m5C), 5-methyluridine (m5U) and N1-methylpseudouridine (m
  ) can be provided.

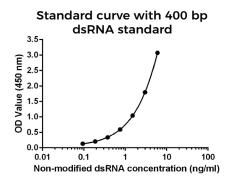
\*GenScript can offer different dsRNA standards with the technologies published by Moderna and BioNTech researchers.

# **Assay Principal**



## **Standard Curve**





## **Validation Data**

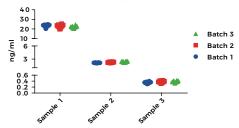
#### **▼ Short Assay Time**

# GenScript, L01020 Dot Blot 0 1 2 3 4 5

√ The testing time for L01020 is 3 hours.

## **▼ High Assay Precision**

Inter-assay and Intra-assay CV calculation with three-batch L01020



√ Intra-assay CV ≤ 10% and Inter-assay CV ≤ 10%.

#### **▼ Excellent Dilution Linearity**

Dilution Factor	Expected dsRNA Conc. (ng/mL)	Measured dsRNA Conc. (ng/mL)	Accuracy%
1000	0.738	0.755	102.3
100	0.738	0.787	106.6
50	0.738	0.799	108.3

<sup>\*</sup>Using L01020 to test different dilution factor of the same sample to evaluate dilution linearity.

## **▼ High Specificity**

dsRNA Conc. (ng/mL)	mRNA Conc. (ng/mL)	Measured dsRNA Conc. (ng/mL)	Accuracy%
30	300	27.79	92.6
30	30	28.21	94.0
0.123	300	0.138	112.2
0.123	30	0.115	93.5

<sup>\*</sup>Two concentrations (ULOQ 30 ng/mL and LLOQ 0.123 ng/mL) of samples were spiked with different amounts of mRNA (30 ng/mL and 300 ng/mL) to evaluate the specificity of L01020.



<sup>√</sup> The results of L01020 are not affected by the dilution factor.

<sup>√</sup> The results of L01020 are not affected by the matrix.