

# KRISHZYME™ Enzymes for mRNA Vaccine

## Vaccinia Capping Enzyme

This product is the Vaccinia Capping Enzyme recombinantly expressed in E. coli. Vaccinia Capping Enzyme can add the 7-methylguanosine cap (Cap0) to the 5' terminus of mRNA. This structure can improve the stability of mRNA, and is indispensable to subsequent transport and translation.

Cat No	Composition	Storage Temperature (°C)
KLPL10606/7/8	Vaccinia Capping Enzyme	-20
KLPL10606/7/8-1	Capping Buffer	-20
KLPL12301/2/3/4	S-adenosylmethionine (SAM)	-20
KLPL12001/2/3/4	GTP	-20

### Product Properties

Optimal reaction temperature: 37°C

Definition of active unit: 1 active unit is defined as the amount of enzyme needed to incorporate 10 pmol of ( $\alpha^{32}\text{P}$ )GTP into 80nt transcript within 1h at 37°C.

### Quality Control

Purity  $\geq$  95%

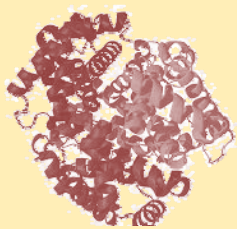
Residual Host Cell DNA  $\leq$  100pg/mg

Residual Host Cell Protein  $\leq$  50 ppm

Residual Endotoxin  $\leq$  10 EU/mg

No residual RNase, Endonuclease, Exonuclease or Protease

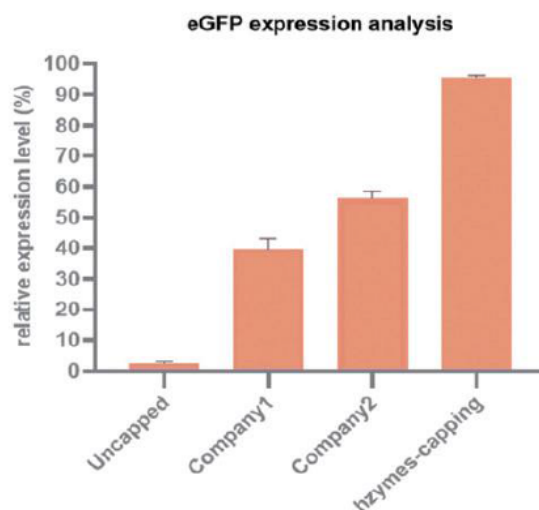
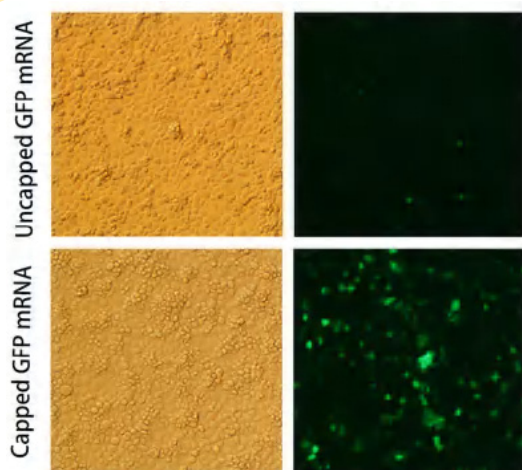
Germ-free, Pathogen-free.



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## Product Features

Capping rate as high as 95%; the 5'-Cap structure effectively promoting the in vivo expression of mRNA.



## Product Information

Cat No	Composition	Specification
KLPL10606/7/8	Vaccinia Capping Enzyme (0.1 U/ul)	50 ul, 200 ul, 10 ml

## Other KRISHZYME mRNA Vaccine Enzymes & Reagents Available

Cat No	Product Particulars
KLPL10301/2/3	Krishzyme T7 RNA Polymerase
KLPL10701/2/3	Krishzyme mRNA Cap-2'-O-Methyltransferase
KLPL10351/2/3	Krishzyme Poly(A) Polymerase
KLPL10401/2/3	Krishzyme RNase inhibitor
KBENZ62	Krishzyme DNase I
KLPL10606/7/8	Krishzyme Vaccinia Virus Capping Enzyme
KLPL10201/2/3	Krishzyme Recombinant Trypsin Solution
KLPL10206/7/8	Krishzyme Recombinant Trypsin lyophilized
KLPL12302/3/4	Krishzyme S-adenosylmethionine (SMA)