

Making mRNA production easier

A T7 RNA Polymerase Mutant that Can Significantly **Reduce dsRNA Impurities**

Chinese invention grant: ZL 2021 1 0044261.3





High capping efficiency



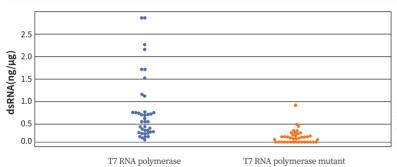
High yield: 150-250µg mRNA/1µg template



High integrity

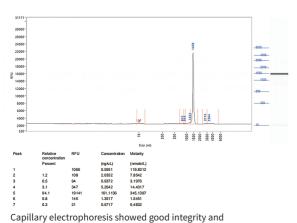


T7 RNA polymerase mutant reduces dsRNA impurities significantly



Novoprotein's patented product "T7 polymerase mutant" has been verified by hundreds of templates, and the dsRNA impurities is lower than $0.1 ng/\mu l$ on most templates, and can be lower than $0.01 ng/\mu l$ for RNA synthesized with modified

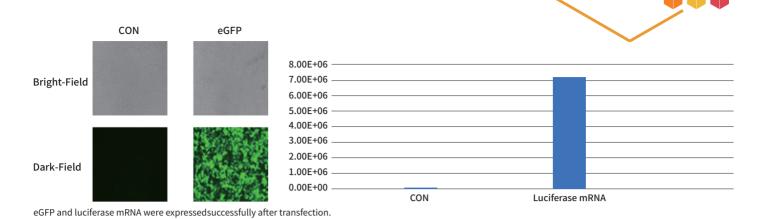
	Yield(μg)	Capping efficiency	Integrity	dsRNA impurities(ng/μg)
eGFP	220	98.56%	94.1%	0.015
Luciferase	183	99.97%	92.1%	0.060



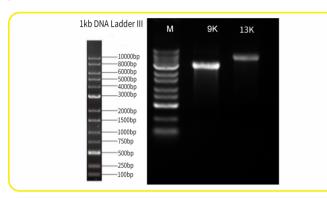
LC-MS detection shows high capping efficiency.

high purity of the transcript.

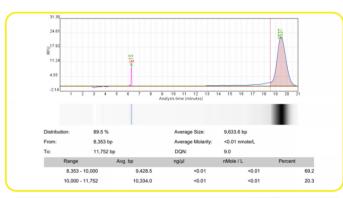




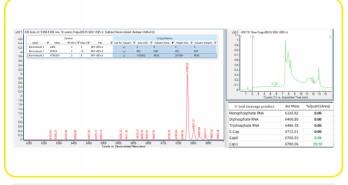
Suitable for saRNA Synthesis



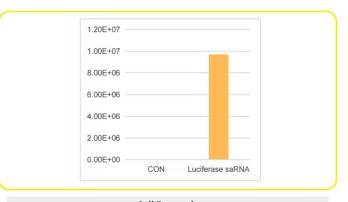
Agarose Gel Electrophoresis(AGE)



Capillary electrophresis analysis showed 89.5% integrity



Capping Efficiency 99.92%



Cell Expression

Product List

Cat. No.	Product Name
GMP-E122-H200	T7 RNA Polymerase 2.0, GMP Grade
GMP-EB001	10×Co-Transcription Buffer, GMP Grade
E122	T7 RNA Polymerase 2.0
E332	T7 High Yield RNA Transcription kit 2.0
PA106	T7 RNA Polymerase 2.0 ELISA Kit

S-T7240726.01

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