



Report of Analysis

Product Name	Cre NLS mRNA
Catalog No.	EB-RNA019
Size	100 ug, 500 ug, 1 mg
Storage	-80 °C(Avoid freeze/thaw cycles)

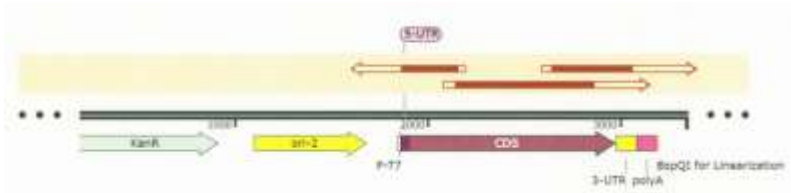
Specifications

Test Item	Method	Result
Appearance	USP<790>	Clear, colorless solution
Content	UV-Vis	2.0 mg/mL
A260/280	UV-Vis	1.9
Identity	Sanger sequencing	ORF sequence 100% matches
Integrity	Capillary electrophoresis	91.0%
Purity	RP-HPLC	90%
Poly(A) tailed %	RP-HPLC	98.0%
Capping efficiency	LC-MS	99.0%
Poly(A) tail distribution	LC-MS	94-106A
Residual protein	Fluorescence	< 1.0 µg/mg
Residual DNA template	qPCR	< 0.01 ng/mg
dsRNA	ELISA	24.8 ng/mg
Endotoxin	USP<85>	< 1 EU/mL
In vitro expression	SDS-Page	Expressed protein size matches expectation

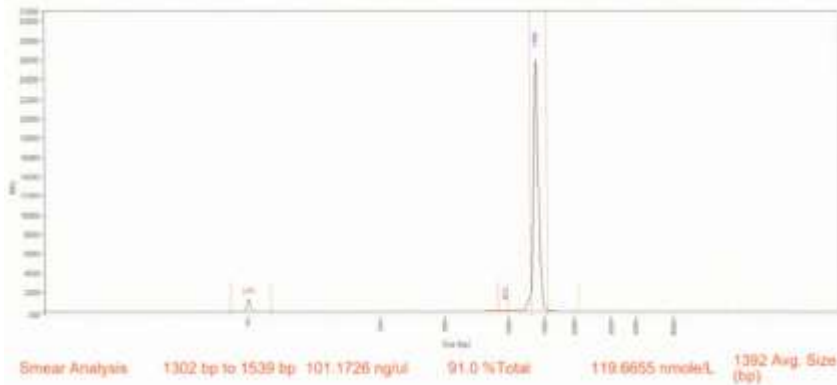


- **Identity: Sanger sequencing**

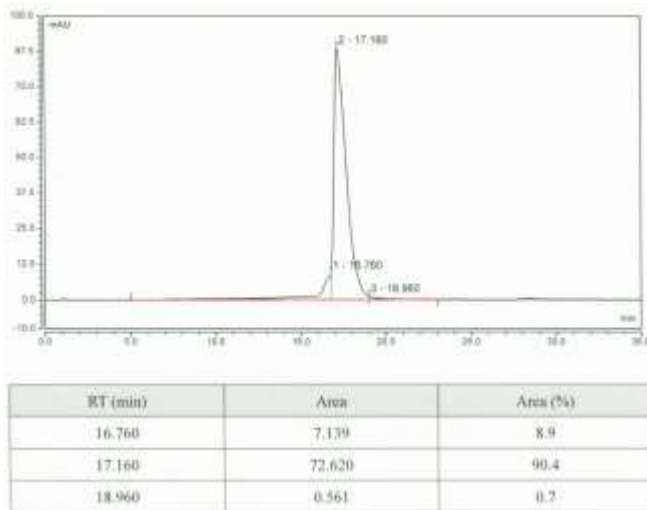
The sequence was successfully verified through Sanger sequencing, with the results confirming a 100% match with the theoretical ORF sequence.



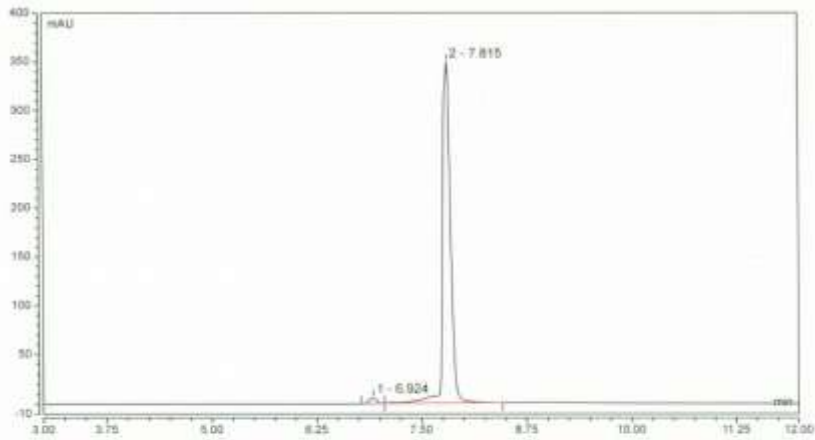
- **Integrity: Capillary electrophoresis**



- **Purity- HPLC**

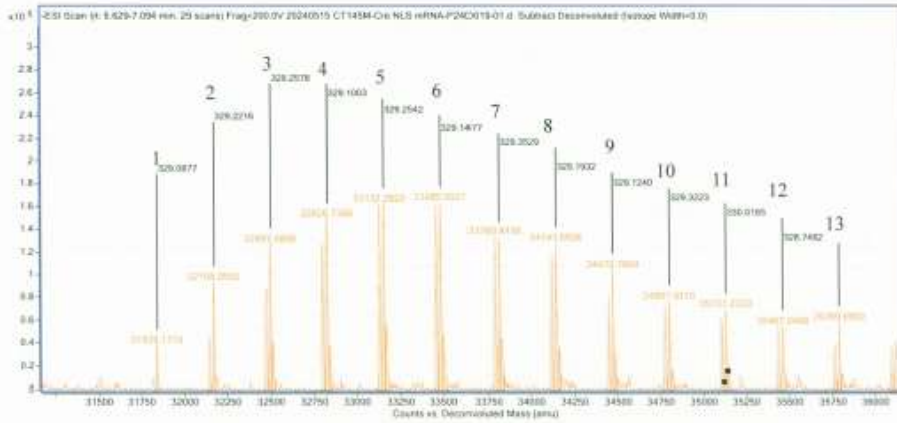


- **Poly(A) tailed %: RP-HPLC**



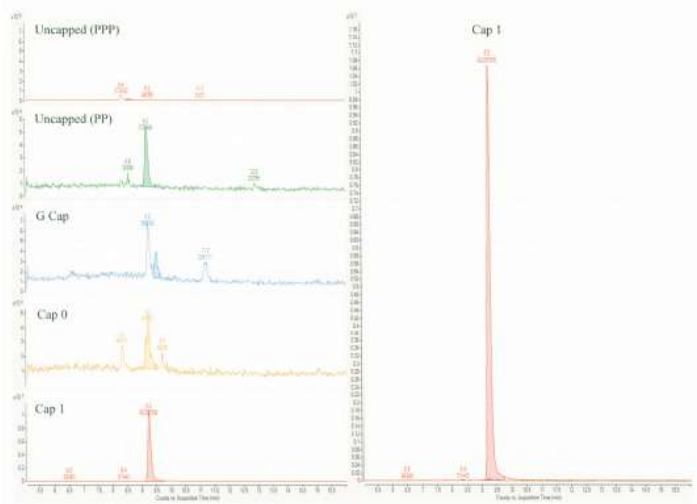
RT (min)	Area	Area (%)
6.924	0.619	1.6
7.815	37.952	98.4

- **Poly(A) tail distribution**



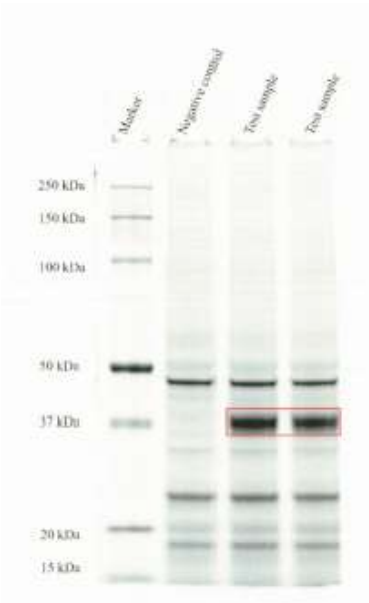
NO.	Theoretical sequence	Theoretical average MW	Measured MW	Signal intensity	Signal intensity (%)
1	Am1ΨCA ₉₄	31838.0137	31839.1715	37060	2.8
2	Am1ΨCA ₉₅	32167.2225	32168.2592	92736	6.9
3	Am1ΨCA ₉₆	32496.4313	32497.4808	125947	9.4
4	Am1ΨCA ₉₇	32825.6401	32826.7386	148145	11.0
5	Am1ΨCA ₉₈	33154.8489	33155.8389	160970	12.0
6	Am1ΨCA ₉₉	33484.0577	33485.0931	162690	12.1
7	Am1ΨCA ₁₀₀	33813.2665	33814.2408	131517	9.8
8	Am1ΨCA ₁₀₁	34142.4753	34143.5938	126890	9.4
9	Am1ΨCA ₁₀₂	34471.6841	34472.7869	103437	7.7
10	Am1ΨCA ₁₀₃	34800.8929	34801.9110	75667	5.6
11	Am1ΨCA ₁₀₄	35130.1017	35131.2333	68746	5.1
12	Am1ΨCA ₁₀₅	35459.3105	35461.2498	53891	4.0
13	Am1ΨCA ₁₀₆	35788.5193	35789.998	57318	4.3

- **Capping efficiency: LC-MS**



Name	RT (min)	Area	Area(%)
Uncapped (PPP)	N.D.	N.D.	N.D.
Uncapped (PP)	9.2	372469	0.4
G Cap	9.5	211131	0.3
Cap 0	9.2	315207	0.4
Cap 1	9.2	82290598	98.9

- In vitro expression: cell-free translation**





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