

# Certificate of analysis

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**Product Name/Description:** Recombinant Cas9 Protein GMP grade  
**Cat. #:** T230  
**Lot #:** ANZM001  
**Storage Conditions:** Store at or below -70 degrees C  
**Expiration Date:** April 18, 2027  
  
**Package Size:** 0.6 mg

**Quality Control Data:**

Test items	Specifications	Results
Purity (HPLC)	≥90.0%	96.4%
Functional test (cleavage efficiency)	≥85.0%	95.6%
Nuclease check		
Endonucleases	No observable degradation	Pass
Exonucleases	No observable degradation	Pass
Ribonucleases	No observable degradation	Pass
DNA content	≤30 ng/mg protein	<0.73 ng/mg protein
Endotoxin	≤30 EU/mL	<1 EU/mL
Sterility	Negative	Pass
Protein concentration	2.7 ~ 3.3 mg/mL	3.0 mg/mL

It is certified that this product meets the above specifications.

Approved By:

Manager, Quality Assurance  
Takara Bio Inc.

**Notice To Purchaser:**

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**Product Documents, Patent Markings, Trademarks, & Safety Information:**

Refer to website for availability to download or contact your local office:

[www.takara-bio.co.jp](http://www.takara-bio.co.jp) (Japanese)

[www.takarabio.com](http://www.takarabio.com) (English)

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