

# Certificate of analysis

---

<b>Product Name/Description:</b>	Mun I (Mfe I)		
<b>Cat. #:</b>	1153A		
<b>Lot #:</b>	Specified on product label		
<b>Storage Conditions:</b>	-20 degrees C		
<b>Expiration Date:</b>	Specified on product label or package		
<b>Package Size:</b>	150 U		
<b>Package Contents:</b>	1. Mun I	5 U/ $\mu$ l	150 U
	2. 10X M Buffer		1 ml
	3. 0.1% BSA		1 ml
	4. 10X Loading Buffer		1 ml

**Source:** Escherichia coli carrying the plasmid encoding Mun I gene

**Quality Control Data:****Overdigestion test:**

Nonspecific nuclease activity was not detected after incubating 1  $\mu$ g of  $\lambda$ DNA with 10 units of this enzyme in 50  $\mu$ l of the supplied buffer overnight at 37°C, as assessed by agarose gel electrophoresis.

**Ligation-Recutting test:**

After 10-fold overdigestion with this enzyme, the DNA fragments could be ligated with T4 DNA ligase and recut with this enzyme.

Ligation: 90% , Recutting: 100%

**Genomic DNA Digest:**

Arthrobacter luteus chromosomal DNA (0.5  $\mu$ g) embedded in a 0.5% agarose gel block was digested with 50 units of this enzyme in 100  $\mu$ l of the supplied buffer overnight at 37°C. The expected profile was confirmed by pulsed-field gel electrophoresis.

**Labeled oligonucleotide assay (LOA) test:**

The degradation rate of oligonucleotides was less than 10% during incubation with 6 U of this enzyme for 1 hour in 10  $\mu$ l of the supplied buffer.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department of Takara Bio Inc.

**Notice To Purchaser:**

Please refer to the website.

**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)

**Licence Statements:**

Please visit our website and click the "license" button on the product's web page.

**©2018 Takara Bio Inc. All Rights Reserved.**

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.