

# mug cDNA

Catalog Number: ATGD0438

## PRODUCT INFORMATION

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**Catalog number**

ATGD0438

**Product type**

cDNA

**Species**

E.coli

**NCBI Accession No.**

NP\_417540.1

**Alternative Names**

dug, ECK3058, JW3040, ygjF

**mRNA Refseq**

NC\_000913.2

**OMIM****Chromosome location**

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

507bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

G/u mismatch-specific DNA glycosylase, xanthine DNA glycosylase, also known as mug, belongs to the TDG/mug DNA glycosylase family. It has been proposed that the Mug protein excises 3, N4-ethenocytosine and removes the uracil base from mismatches in the order of u:G>u:A, although the biological role remains unclear.

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### DATA

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#### Sequence nucleotides

ATGGTTGAGGATATTTTGGCTCCAGGGTTACGGGTCGTGTTTTGCGGTATCAACCCTGGGCTTTCATCCGCCGGGACTGGTT  
TTCCCTTTGCTCATCCGGCAAATCGCTTCTGGAAGGTGATATATCAGGCCGGGTTTACCGACCGTCAGTTGAAGCCGCAGG  
AGGCACAGCATCTGCTGGATTATCGTTGTGGCGTCACCAAATGGTAGACCGTCCAACGGTGCAAGCCAATGAAGTTTCAA  
AGCAGGAGCTACACGCAGGCGGGCGTAAGCTGATTGAAAAAATTGAAGATTATCAGCCGCAGGCGTTGGCGATTCTGGGC  
AAACAAGCATATGAACAGGGATTAGCCAGCGCGGTGCACAGTGGGGGAAACAAACGCTCACCATTGGTTCGACGCAGATT  
TGGGTGCTGCCAAATCCCAGCGGTTTAAGTCGCGTTTCACTGGAGAAACTGGTTGAAGCGTATCGCGAGCTGGACCAGGCG  
CTGGTAGTGCCTGGGCGATAA

#### Transaction Sequence

MVEDILAPGL RVVFCGINPG LSSAGTGFPF AHPANRFWKV IYQAGFTDRQ LKPQEAQHLL DYRCGVTKLV DRPTVQANEV  
SKQELHAGGR KLIKIEDYQ PQALAILGKQ AYEQGFSSRG AQWKGQTLTI GSTQIWVLPN PSGLSRVSLE KLVEAYRELD  
QALVVRGR