

mutY cDNA

Catalog Number: ATGD0439

PRODUCT INFORMATION

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ATGD0439

Product type

cDNA

Species

E.coli

NCBI Accession No.

YP_002413998.1

Alternative Names**mRNA Refseq**

NC_000913.2

OMIM**Chromosome location****PRODUCT SPECIFICATION**

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1053bp

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

Adenine DNA glycosylase, also known as mutY, is an adenine DNA glycosylase active on DNA substrates containing A/G, A/8-oxoG, or A/C mismatches and also has a weak guanine glycosylase activity on G/8-oxoG-containing DNA. mutY is crucial for the avoidance of mutations resulting from oxidative DNA damage.

DATA

Sequence nucleotides

ATGCAAGCGTCGCAATTTTCAGCCCAGGTTCTGGACTGGTACGATAAATACGGGCGGAAAACGCTGCCCTGGCAAATTGAC
AAGACGCCCTACAAAGTATGGCTCTCAGAAGTGATGTTGCAACAACTCAGGTTGCGACCGTTATCCCCTATTTTGAACGCT
TTATGGCGCGCTTCCCGACGGTGACCGATCTCGCCAATGCGCCGCTCGACGAAGTTCTCCACTTGTGGACCGGGCTTGGCT
ATTACGCCCGCGCGCGCAACCTGCATAAAGCGGCACAACAAGTGGCGACCTTACACGGCGGTAAATTCGCGAAACCTTTG
AAGAAGTCGCGGCGTTACCGGGCGTCGGGCGTTCCACCGCAGGCGCGATTCTCTCGCTTTCTCTGGGTAAGCACTTTCCGA
TTCTCGACGGTAACGTCAAACGCGTGCTGGCGCGCTGCTATGCTGTAAGCGGCTGGCCTGGGAAAAAAGAGGTCGAGAAT
AAACTATGGAGTTTGAGCGAGCAGGTGACGCCCCGCGTTGGCGTGGAACGGTTTAATCAGGCGATGATGGATTTGGGCGC
GATGATTTGTACGCGCTCTAAGCCGAAATGTTGCTCTGTCCGCTACAAAACGGATGTATTGCCGCCGCCAACAAATAGCTGG
TCGCTTTATCCGGGCAAAAAACCGAAACAGACGCTGCCAGAGCGCACCGGCTACTTTTTGCTGTTACAGCACGAAGATGAA
GTATTGCTGGCGCAGCGTCCGCCGAGCGGATTGTGGGGCGGTTTATACTGTTTCCCGCAGTTTGCCGATGAAGAAAGTTTG
CGGCAGTGGCTGGCGCAACGACAGATTTCTGCCGATAACCTGACGCAGCTGACCGCGTTTCGGCATACTTCAGCCATTTT
CACTTAGATATTGTGCCTATGTGGCTTCCCGTGTCGTCATTACCGGCTGCATGGATGAAGGCAATGCGCTCTGGTATAACT
TAGCGCAACCGCCGTCAGTTGGCCTGGCGGCTCCCGTGGAGCGTTTGTACAGCAGTTACGCACTGGCGCGCCGGTTTAG

Transaction Sequence

MQASQFSAQV LDWYDKYGRK TLPWQIDKTP YKVWLSEVML QQTQVATVIP YFERFMARFP TVTDLANAPL DEVLHLWTGL
GYARARNLH KAAQVATLH GSKFPETFEE VAALPGVGRS TAGAILSLSL GKHPILDGN VKRVLARCYA VSGWPGKKEV
ENKLWSLSEQ VTPAVGVERF NQAMMDLGAM ICTRSKPKCS LCPLQNGCIA AANNWSWLYP GKPKQTLPE RTGYFLLLQH
EDEVLLAQRPSGLWGGGLYC FPQFADEESL RQWLAQRQIS ADNLTLQTA RHTFSHFHLD IVPMWLPVSS FTGCMDEGNA
LWYNLAQPPS VGLAAPVERL LQQLRTGAPV