

SMUG1 cDNA

Catalog Number: ATGD0358

PRODUCT INFORMATION

Catalog number

ATGD0358

Product type

cDNA

Species

Human

NCBI Accession No.

NP_055126.1

Alternative Names

FDG, HMUDG, UNG3

mRNA Refseq

NM_014311.2

OMIM

607753

Chromosome location

12q13.13

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

813bp

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

SMUG1 cDNA

Catalog Number: ATGD0358

SMUG1 is a protein that participates in base excision repair by removing uracil from single- and double-stranded DNA. Many alternatively spliced transcript variants exist for this gene; the full-length nature is known for some but not all of the variants.

DATA

Sequence nucleotides

```
ATGCCCCAGGCTTTCCTGCTGGGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCCCTGGAAGCTTG
GCTGAGAGCTTTCCTGGAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTTCGGAGCCTGTGGGCATCATC
TACAATCCCGTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCCAAGGAAGTACTCTTC
CTGGGCATGAACCCTGGACCTTTTGGCATGGCCCAGACTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGGTT
GGGCATTGTGGGGCCTGTGCTGACCCCTCCCCAAGAGCATCCTAAACGACCAGTGCTGGGACTGGAGTGCCACAGTCAG
AAGTGAGTGGTGCCCGATTCTGGGGCTTTTTCCGGAACCTCTGTGGACAGCCTGAGGTCTTCTTCCATCACTGTTTTGTCCA
CAATCTATGCCCTCTGCTTTTCCTGGCTCCCAGCGGGCGCAACCTTACTCCTGCTGAGCTGCCTGCCAAGCAGCGAGAACA
GCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGGCAGGTGCAGCTGCTGGGGGTGCGGCTGGTGGTGGGAGTTGGGCGA
CTGGCAGAGCAGCGGGCACGACGGGCTCTGGCAGGCCTGATGCCAGAGGTCCAGGTGGAAGGGCTCCTGCATCCCTCTCC
CCGTAACCCACAGGCCAACAAGGGCTGGGAGGCAGTGGCCAAGGAAAGATTGAATGAGCTGGGGCTGCTGCCACTGCTGT
TGAAATGA
```

Transaction Sequence

```
MPQAFLLGSI HEPAGALMEP QPCPGSLAES FLEEELRLNA ELSQLQFSEP VGIYNPVEY AWEPHRNYVT RYCQGPKEVL
FLGMNPGPFG MAQTGVPFGE VSMVRDWLGI VGPVLTTPQE HPKRPVLGLE CPQSEVSGAR FWGFFRNLCG QPEVFFHHCF
VHNLCPLLFL APSGRNLTPA ELPKQREQL LGICDAALCR QVQLLVRLV VGVGRLAEQR ARRALAGLMP EVQVEGLLHP
SPRNPQANKG WEAVAKERLN ELGLLPLLLK
```