

Product datasheet for RC231979

SMUG1 (NM_001243791) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SMUG1 (NM_001243791) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SMUG1
Synonyms: FDG; HMUDG; UNG3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231979 representing NM_001243791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCCAGGCTTTCCTGCTGGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCC
 CTGGAAGCTTGGCTGAGAGCTTCTGGAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTT
 TTCGGAGCTGTGGGCATCATCTACAATCCCGTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACT
 CGCTACTGCCAGGGCCCCAAGGAAGTACTTCTCTGGGCATGAACCCTGGACCTTTTGGCATGGCCAGA
 CTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGGTTGGGCATTGTGGGCCTGTGCTGACCCC
 TCCCAAGAGCATCCTAAACGACAGTGTGGGACTGGAGTGCCACAGTCAGAAGGACCAAGACAAAGC
 ATGGGACATGAAATTAAGAGTGAAGTCTTATGGGAGGCTGCAGCTGGATCAGAGGAAAAATCCAGTGTG
 ACAGAGTGAAGTCAGAAGACCTGGCTTTTCATCCCAGCTT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231979 representing NM_001243791
 Red=Cloning site Green=Tags(s)

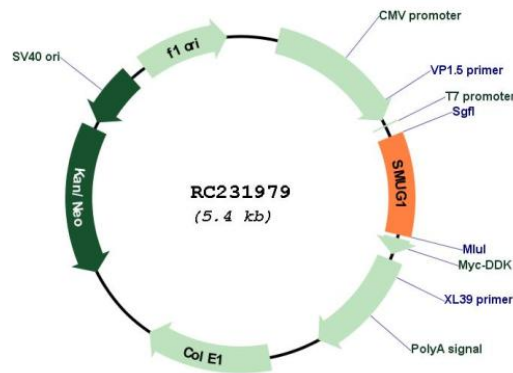
MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPVEYAWEPHRNYVT
 RYCQGPKEVFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVGPVLTTPQEHPKRPVGLGECQSEGPQRQ
 MGHEIKSELLMGGCSWIRGKIQCDRVQVRRPFGFSSQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001243791

ORF Size: 531 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001243791.2
RefSeq Size:	685 bp
RefSeq ORF:	534 bp
Locus ID:	23583
UniProt ID:	Q53HV7
Cytogenetics:	12q13.13
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
MW:	20.1 kDa
Gene Summary:	This gene encodes 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. [provided by RefSeq, Aug 2011]