

Product datasheet for **RG231979**

SMUG1 (NM_001243791) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SMUG1 (NM_001243791) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SMUG1
Synonyms: FDG; HMUDG; UNG3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231979 representing NM_001243791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCCAGGCTTTCCTGCTGGGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCC
 CTGGAAGCTTGGCTGAGAGCTTCTGGAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTT
 TTCGGAGCCTGTGGGCATCATCTACAATCCCGTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACT
 CGCTACTGCCAGGGCCCCAAGGAAGTACTTCTGGGCATGAACCCTGGACCTTTTGGCATGGCCAGA
 CTGGGGTGCCCTTGGGGAAGTAAGCATGGTCCGGGACTGGTTGGGCATTGTGGGCCTGTGCTGACCCC
 TCCCCAAGAGCATCTAAACGACCAGTGTGGGACTGGAGTGCCACAGTCAGAAGGACCAAGACAAAGC
 ATGGGACATGAAATTAAGAGTGAACCTTATGGGAGGCTGCAGCTGGATCAGAGAAAAATCCAGTGTG
 ACAGAGTGCAAGTCAGAAGACCTGGCTTTTCATCCCAGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231979 representing NM_001243791
 Red=Cloning site Green=Tags(s)
 MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPVEYAWEPHRNYVT
 RYCQGPKEVFLGMNPGPFGMAQTGVVPEVSMVRDWLGIVGPVLTTPQEHPKRPVGLGCEPQSEGPRQS
 MGHEIKSELLMGGCSWIRGKIQCDRVQVRRPFGFSSQL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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:	<u>NM_001243791.2</u>
RefSeq Size:	685 bp
RefSeq ORF:	534 bp
Locus ID:	23583
UniProt ID:	<u>Q53HV7</u>
Cytogenetics:	12q13.13
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
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]