

Product datasheet for **SC123808**

SMUG1 (BC000417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMUG1 (BC000417) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMUG1
Synonyms:	FDG; HMUDG; MGC104370; single-strand-selective monofunctional uracil-DNA glycosylase 1; single-strand selective monofunctional uracil DNA glycosylase; UNG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC000417 edited

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CGGCTCCCAGGGTCGTCGGGGCTGAGCCGAGAGGGTGGTTAGAATTTCTATATTTTGGGG
TCCCTCCCTCCGTATGGGGTAAGACTCAGTGCAGGGAGAGCCAGCCTATGAAACCGCCT
GGGAGGTCTGCAGGATCAAGGCTTCCAGTCGGCCGAGCCAGCGGGCGCCCCGGAGGC
TGGAGTGCAATGGCGGATCTCAGCTCACTGCAGCCTCCGCTCCCGGGTTCAAGCGATT
CTTCTGCCTCAGCCTCCCGAGTAGCAGATTATGAGCTTACAGAAAAGCCTGGCCTACATTT
TACTCTTTTTGGATTTCTTCTCATCAAGAGACTGCTGCGGTGCCTGTCATGTGACAGCG
GCATGGACATATGCCCCAGGCTTTCCTGCTGGGGTCCATCCATGAGCCTGCAGGTGCCCT
CATGGAGCCCCAGCCCTGCCCTGGAAGCTTGGCTGAGAGCTTCTGGAGGAGGAGCTTCG
GCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTTCGGAGCCTGTGGGCATCATCTACAATCC
CGTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCCAA
GGAAGTACTCTTCTGGGCATGAACCTGGACCTTTTGGCATGGCCAGACTGGGGTGCC
CTTTGGGGAAGTAAGCATGGTCCGGGACTGGTTGGGCATTGTGGGCCTGTGCTGACCCC
TCCCCAAGAGCATCCTAAACGACCAGTGTGGGACTGGAGTGCCACAGTCAGAAGGACC
AAGACAAAGCATGGGACATGAAATTAAGAGTGAACCTTATGGGAGGCTGCAGCTGGAT
CAGAGGAAAAATCCAGTGTGACAGAGTCAAGTCAGAAGACCTGGCTTTTCATCCAGCT
TTGAAACTTGAACTTTTTGATTGACAAATTAATAAACCTCTCTATGCCTCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC000417 unedited AGAGTTCANCATTTGTATACGACTTATATAGGCGGCACGCGAATTCGCACGAGGCGGCTC CCATGGTCGTCGGGGCTGAGCCGAGAGGTGGTTAGAATTTCTATATTTTGGGGTCCCTCC CTCCGTATGGGGTAAGACTCAGTGCAGGGAGAGCCAGCCTATGAAACCGCTGGGAGGT CTGCAGGATCAAGGCTTCCAGTCGGCCGAGCCAGCGGGCGCCCCGGAGGCTGGAGTG CAATGGCGGATCTCAGCTCACTGCAGCCTCCGCTCCCGGTTCAAGCGATTCTTCTGC CTCAGCTCCCGAGTAGCAGATTATGAGCTTACAGAAAGCCTGGCCTACATTTTACTCTT TTTGGATTTCTTCTCATCAAGAGACTGCTGCGGTGCCTGTCATGTGACAGCGGCATGGA CATATGCCCATGCTTCTGCTGGGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAG CCCCAGCCTGCCCTGGAAGCTTGGCTGAGAGCTTCTGGAGGAGGAGCTTCGGCTCAAT GCTGAGCTGAGCCAGCTGCAGTTTTCGGAGCCTGTGGGCATCATCTACAATCCCCTGGAG TATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCAAGGAAGTA CTCTTCTGGGCATGAACCTGGACCTTTGGCATGGCCANACTGAAGTGCCCTTTGNN GAAGTAAGCATGGTCCNGGACTGGGTGGCATTGTGGAGCCTGTGCTGACCCCTCCCAA AGCATCTATACGACCAGTGCTGGGACTGGAGTGCCACAGTCAGAAGGACCCAGACAAA GCTGGGACATGAAATTAGAGTGACCTCCTATGGAAGCTGCAGCTGGTCAGAGGAAAATC ATGTGACA
Restriction Sites:	Please inquire
ACCN:	BC000417
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC000417.2 , AAH00417.1
RefSeq Size:	982 bp
Locus ID:	23583
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]