

Product datasheet for **SC115074**

SMUG1 (NM_014311) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMUG1 (NM_014311) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMUG1
Synonyms:	FDG; HMUDG; UNG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115074 sequence for NM_014311 edited (data generated by NextGen Sequencing)

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ATGCCCCAGGCTTTCCTGCTGGGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCC
CAGCCCTGCCCTGGAAGCTTGGCTGAGAGCTTCCCTGGAGGAGGAGCTTCGGCTCAATGCT
GAGCTGAGCCAGCTGCAGTTTTTCGGAGCCTGTGGGCATCATCTACAATCCCGTGGAGTAT
GCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCAAGGAAGTACTC
TTCCTGGGCATGAACCCTGGACCTTTTGGCATGGCCCAGACTGGGGTGCCCTTTGGGGAA
GTAAGCATGGTCCGGGACTGGTTGGCATTGTGGGGCCTGTGCTGACCCCTCCCAAGAG
CATCCTAAACGACCAGTGTGGGACTGGAGTGCCACAGTCAGAAGTGAGTGGTGCCGA
TTCTGGGGCTTTTTCCGGAACCTCTGTGGACAGCCTGAGGTCTTCTTCCATCACTGTTTT
GTCCACAATCTATGCCCTCTGCTTTTCTGGCTCCAGCGGGCGCAACCTTACTCCTGCT
GAGCTGCCTGCCAAGCAGCGAGAACAGCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGG
CAGGTGCAGCTGCTGGGGTGGCGCTGGTGGTGGGAGTTGGGCGACTGGCAGAGCAGCGG
GCACGACGGGCTCTGGCAGGCCTGATGCCAGAGGTCCAGGTGGAAGGGCTCCTGCATCCC
TCTCCCGTAACCCACAGGCCAACAAAGGGCTGGGAGGCAGTGGCCAAGGAAAGATTGAAT
GAGCTGGGGCTGCTGCCACTGCTGTTGAAATGA

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Clone variation with respect to NM_014311.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014311 unedited</p> <pre> TTTGTATACGACTCACTATAGGCGGCCGCGAATCGCACGAGGGAAAGGAACCGGAAACGG GATGGGGAGCTGGACCAGGTGACAGCGGCATGGACATATGCCCCAGGCTTTCCTGCTGGG GTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCCCTGGAAGCTTGGC TGAGAGCTTCTGGAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTTC GGAGCCTGTGGGCATCATCTACAATCCCGTGGAGTATGCATGGGAGCCACATCGCAACTA CGTGACTCGTACTGCCAGGGCCCCAAGGAAGTACTTCTTGGGCATGAACCCCTGGACC TTTTGGCATGGCCAGACTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGGTT GGGCATTGTGGGGCTGTGCTGACCCCTCCCAAGAGCATCCTAAACGACCAGTGTGCGG ACTGGAGTGCCACAGTCAGAAGTGAGTGGTGCCCGATTCTGGGGCTTTTTCCGGAACCT CTGTGGACAGCCTGAGGTCTTCTCCATCACTGTTTTGTCCACAATCTATGCCCTCTGCT TTTTCTGGCTCCCAGCGGGCGCAACCTTACTCCTGCTGAGCTGCCTGCCAAGCAGCGAGA ACAGCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGGCAGGTGCANCTGCTGGGGGTGCG GCTGGTGGTGGGAATTGGGCGACTGGCAAAGCAACGGGCACGACGGGCTCTGGCAGGCCCT GATGCCAGGTCCAGTGAAGGGGCTCTGCATCCCTCTCCCCGTACCCACAGCCAACAAG GGCTGGAAGGCATGGCCAAGGAAGATGGATGAGCTGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014311 unedited</p> <pre> TGGCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTCTGGAGGCATAAAGAGTTTATTAATTGGTCAATCAAAAAGTTCCAAGTTTCAAAG CTGGGATGAAAAGCCAGGTCTTCTGACTTGCACTCTGTCACACTGGATTTTTCTTTGAT CCAGCTGCAGCCTCCCATAAAAAGTTCACTCTTAATTTTCATGTCCCATGCTTTGTCTTGG CCCCTGTGAGGAAAGGGTCCACTAAAGGCAACTGTTCTATAAGGATGGGTAGGTATCCT GGCAAGATATTTCTCTGAAATAGTAAACGGGACCTTAAAGTTACTGTCTAGGGCACTC TCAGCTGAATAAAGTCTCCCAAGGAAACACTGAGGTAAAGCAGTCTGCAAGGGCAAAAAGC ACACCTTCTGCAAATTCCTACAAAGGGGGTCCCCTGAAAGGGGCAATGTAAAAGGTA AAGAAAGCAGGAATCAGGAGGGCAACAGGAGTAGGGTCAAACTGCCATGGCAGGTTGG AAGACAGTTCAACAGATCAAAGAATACGTTTCCAGCGACCAGGGTGCACAGAAGGACCT TTTGCTCCAGTACAGGAGATGTGTTGTCATCTGCTTGGCCAAGAATGACTTCGAGGTCTT GAATGTGTCCCATGCAAGGCCCAAGGGCACTCATTTCAACAGCAGTGGCAGCAGCCCCA GCTCATTAATTTTTCTTGGCCACTGCCTCCCAACCCCTTGGTGGGCCTGTGGGGTACGG GGGAGAGGGGATGCAGGACCCTTTCCACCTGCACCCTTGGCATTAGGCCCTGCAAAACCC GTTNTGCCGTTGTTTTTCCAATGGCCATTTTCAACAACACAGCGAACCCAGAAAGGTG GACCTGCCCGGAAAGGGT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014311
Insert Size:	1560 bp
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:	NM_014311.1 , NP_055126.1
RefSeq Size:	1570 bp
RefSeq ORF:	813 bp
Locus ID:	23583
UniProt ID:	Q53HV7
Cytogenetics:	12q13.13
Domains:	UDG
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1-3, 12-27, and 32 all encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>