

Product datasheet for RC212141

SMUG1 (NM_014311) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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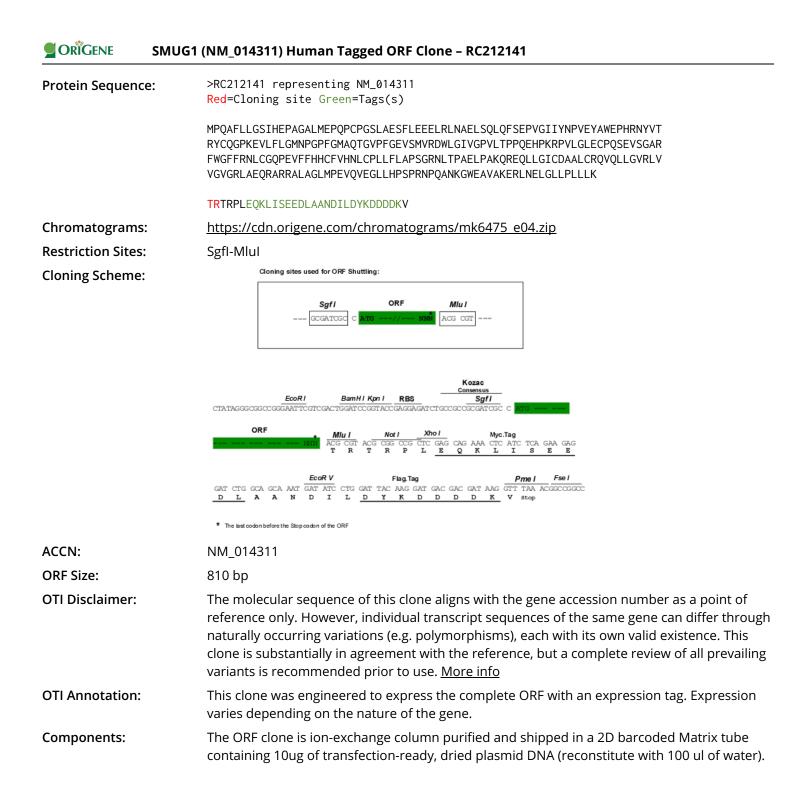
Product Type:	Expression Plasmids
Product Name:	SMUG1 (NM_014311) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMUG1
Synonyms:	FDG; HMUDG; UNG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC212141 representing NM_014311 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGCCCCAGGCTTTCCTGCTGGGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCC CTGGAAGCTTGGCTGAGAGCTTCCTGGAGGAGGAGCACTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTT TTCGGAGCCTGTGGGCATCATCTACAATCCCGTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACT CGCTACTGCCAGGGCCCCAAGGAAGTACTCTTCCTGGGCATGGAACCCTGGACCTTTTGGCATGGCCCAGA CTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGGTTGGGCATTGTGGGGCCTGTGCTGACCCC TCCCCAAGAGCATCCTAAACGACCAGTGCTGGGACTGGAGTGCCCACAGTCAGAAGTGGTGCCCGA TTCTGGGGCTTTTCCGGAACTCTTGTGGACAGCCTGAGGTCTTCTTCCATCACTGTTTTGCCACAATC TATGCCCTCTGCTTTTCCTGGCCCCACGGGCGCAACCTTACTCCTGCTGAGCTGCCGACAGCG AGAACAGCTTCTTGGGCACTGGCAGCGGGCACCGACGGGCCCTGGCGGGGCGCGGCTGGTG GTGGGAGTTGGGCGACTGGCAGAGCAGCGGGCACCACGACGGCCTGGCGGGGGGCGCGGCTGGGG TGGGAAGGGCTCCTGCATCCCTCCCCGTAACCCACAGGCCAACAAGGGCTGGGGAGGCAGGGCCAAGGA AAGATTGAATGAACTGGGGGCTGCTGCCACTGCTGCTGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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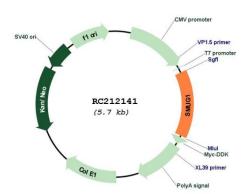


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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 014311.2</u>
RefSeq Size:	1570 bp
RefSeq ORF:	813 bp
Locus ID:	23583
UniProt ID:	<u>Q53HV7</u>
Cytogenetics:	12q13.13
Domains:	UDG
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
MW:	29.7 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,

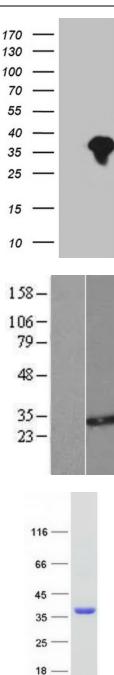
Product images:



Aug 2011]

Circular map for RC212141

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SMUG1 (Cat# RC212141, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SMUG1 (Cat# [TA810345])(1:2000). Positive lysates [LY415367] (100ug) and [LC415367] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY415367]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212141 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified SMUG1 protein (Cat# [TP312141]). The protein was produced from HEK293T cells transfected with SMUG1 cDNA clone (Cat# RC212141) using MegaTran 2.0 (Cat# [TT210002]).

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