

## Product datasheet for **RR211860**

### Smug1 (NM\_177934) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smug1 (NM_177934) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smug1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211860 representing NM_177934 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTGTCCAGACTTTCCACCGGGGCTGCCCATGAGCCTGCCAGTGCCCTGATGGAGCCTTGCC  
CTCGAAGCTTAGCTGAGGGCTTCTGGAGGAAGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTT  
TCCAGAGCCTGTGGGTGTCATCTACAACCCAGTGGATTATGCTTGGGAGCCACACCGGAACCTACGTGACT  
CGCTACTGCCAAGGCCCAAGGAAGTGCTTCTGGGCATGAATCCAGGACCTTTTGGCATGGCCAAA  
CTGGGGTACCTTTTGGGGAAGTGAATGTGGTCCGGGACTGGTTGGGCATTGGGGGCTCTGTGCTGTCC  
TCCCAAGAGCACCTAAGCGACCAAGTGTGGGACTGGAGTGCCCGCAGTCAGAGGTGAGCGGAGCCCGA  
TTCTGGGGCTTTTTTGGACCCTCTGCGGACAGCCTCAAGTCTTCTTCCGGCACTGCTTTGTCCACAATC  
TGTGCTCTACTCTTCTGGCTCCAGCGGGCGAAACCTTACCCCGGCTGATCTGCCCGCAAGCACCG  
GGAGCAGTACTGTGCATCTGCGACGCCGCCCTGCGCGCAGGTGCAGCTGCTAGGGGTGCGGCTGGTA  
GTGGGAGTGGGGCGGCTGGCAGAGCAGAGAGCTCGAAGAGCTCTAGCAGGGCTGACCCCGAGGTGCAGG  
TGGAGGGCTCCTGCATCCATCTCCTCGAAGCCCGCAGGCCAACAAAGGCTGGGAAACAGCAGCCAGGGA  
AAGACTCCAAGAGTTGGGGCTGCTGCCTCTGCTAACGGATGAGGGTTCAGTCAGGCTACACCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211860 representing NM\_177934  
Red=Cloning site Green=Tags(s)

MAVSQTFPPGPAHEPASALMEPCARSLAEGFLEEELRLNAELSQLQFPEPVGVIYNPVDYAWEPHRNYVT  
 RYCQGPKEVLF LGMNP GPF GMAQTGV PFGEVNVVRDWLIGG SVL SPPQEHKRPV LGL ECPQSEVSGAR  
 FWGFFRTL CGQPQV FFRHCFVHNL CPLLF LAPS GRNL TPADLP AKHREQLL SICDAAL CRQVQLL GVRLV  
 VGVGR LAEQRRARALAGL TPEVQVEGL LHPSRSPQANKGWETAARERLQELGLLPLLTDEGSVRPTP

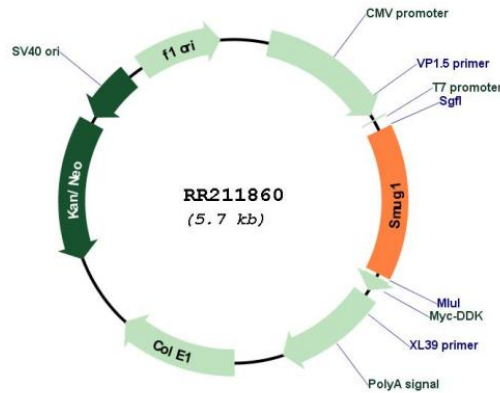
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_177934

**ORF Size:** 834 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177934.3</a> , <a href="#">NP_808795.1</a>
<b>RefSeq Size:</b>	1029 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	315344
<b>UniProt ID:</b>	<a href="#">Q811Q1</a>
<b>Cytogenetics:</b>	7q36
<b>MW:</b>	30.6 kDa
<b>Gene Summary:</b>	involved in the repair of 5-formyluracil and other oxidized and deaminated base lesions [RGD, Feb 2006]