

Product datasheet for **RC200633**

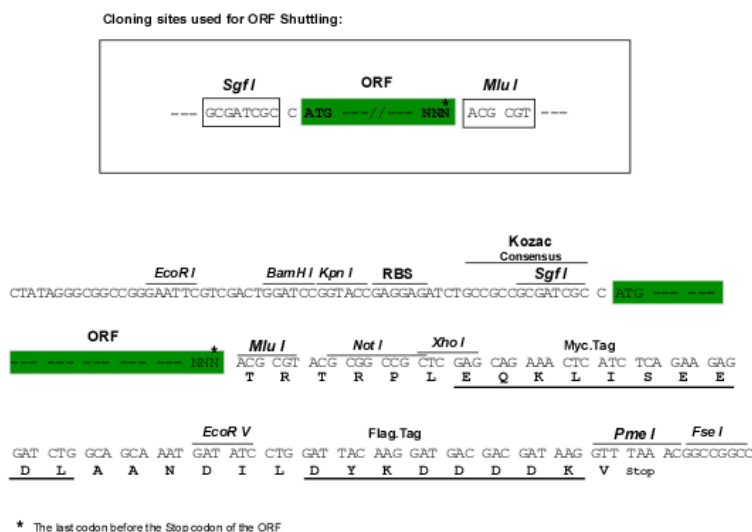
Sumo 1 (SUMO1) (NM_003352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sumo 1 (SUMO1) (NM_003352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sumo 1
Synonyms:	DAP1; GMP1; OFC10; PIC1; SENP2; SMT3; SMT3C; SMT3H3; UBL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>>RC200633 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC</p> <p>ATGTCGTGACCAGGAGGCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATTAAC TCAAAGTCATTGGACAGGATAGCAGTGAGATTCACCTTCAAAGTGAAATGACAACACATCTCAAGAACT CAAAGAATCATACTGTCAAAGACAGGGTGTCCAATGAATTCCTCAGGTTTCTTTGAGGGTCAGAGA ATTGCTGATAATCATACTCCAAAGAAGTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAAC AAACGGGGGGTCATTCAACAGTT</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>>RC200633 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MSDQEAKPSTEDLGDKKEGEYIKLVIGQDSSEIHFVKVMTTHLKKLKESYQQRQGVPMNSLRFLFEGQR IADNHTPKELGMEEEDVIEVYQEQTGGHSTV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	https://cdn.origene.com/chromatograms/mk6075_f01.zip
Restriction Sites:	SgfI-MluI


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Cloning Scheme:



ACCN: NM_003352

ORF Size: 303 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_003352.8](#)

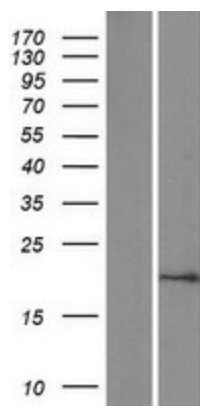
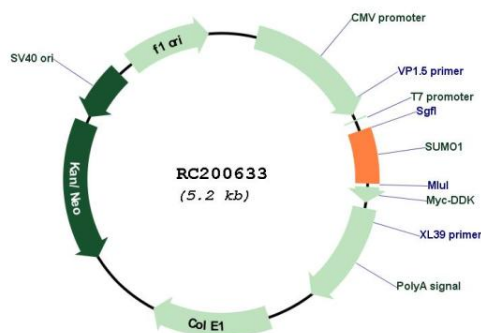
RefSeq Size: 1527 bp

RefSeq ORF: 306 bp

Locus ID: 7341

UniProt ID:	P63165
Cytogenetics:	2q33.1
Domains:	UBQ
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
MW:	11.6 kDa
Gene Summary:	This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY418744]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200633 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).