

Product datasheet for **RC235989**

Sumo 3 (SUMO3) (NM_001286416) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sumo 3 (SUMO3) (NM_001286416) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SUMO3
Synonyms: SMT3A; Smt3B; SMT3H1; SUMO-3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235989 representing NM_001286416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGGCCGGGC
AGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACTG
CGAGAGGCAGGTGCGGCACCTTGCTCCCCGCAGAGCCTCCCCGTGTGCCACTGGTCCTGTGCGTTCCA
GGCATCCCAGAGCACGAGCGTCTCGGGGCTGGACCCAGATGCAGCTGCCGAGGGCTTGTCAATGAGGC
AGATCAGATTCAGGTTCCACGGGCAGCCAATCAATGAAACTGACACTCCAGCACAGCTGGAGATGGAGGA
CGAGGACACCATCGAGTGTTCAGCAGCAGACGGGAGGTGTGCCGAGAGCAGCCTGGCAGGGCACAGT
TTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235989 representing NM_001286416
Red=Cloning site Green=Tags(s)
MSEEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQVRHLAPPQSLPVCALVLCVP
GIPRARASRGWTQMLPEGLSMRQIRFRFDGQPINETDTPAQLEMEDEDTIDVFQQQTGGVPESSLAGHS
F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

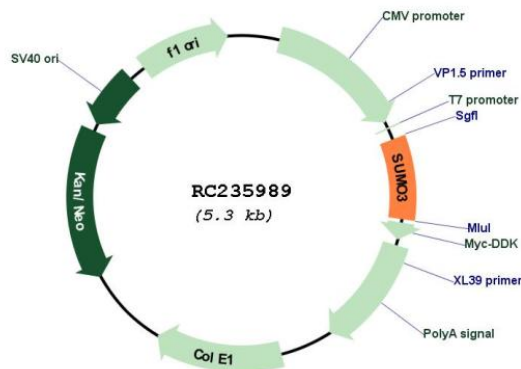


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001286416

ORF Size: 423 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:	<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:	<u>NM_001286416.1</u> , <u>NP_001273345.1</u>
RefSeq Size:	1945 bp
RefSeq ORF:	426 bp
Locus ID:	6612
UniProt ID:	<u>P55854</u>
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
MW:	16.2 kDa
Gene Summary:	This gene encodes a member of the small ubiquitin-related modifier (SUMO) family of eukaryotic proteins. The encoded protein is covalently conjugated to other proteins via a post-translation modification known as sumoylation. Sumoylation may play a role in a wide variety of cellular processes, including nuclear transport, DNA replication and repair, mitosis, transcriptional regulation, and signal transduction. Alternatively spliced transcript variants encoding distinct proteins have been described. [provided by RefSeq, Feb 2014]