

## Product datasheet for **SC333883**

### Sumo 3 (SUMO3) (NM\_001286416) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sumo 3 (SUMO3) (NM_001286416) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUMO3
Synonyms:	SMT3A; Smt3B; SMT3H1; SUMO-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333883 representing NM_001286416. Blue=Insert sequence Red=Cloning site Green=Tag(s)

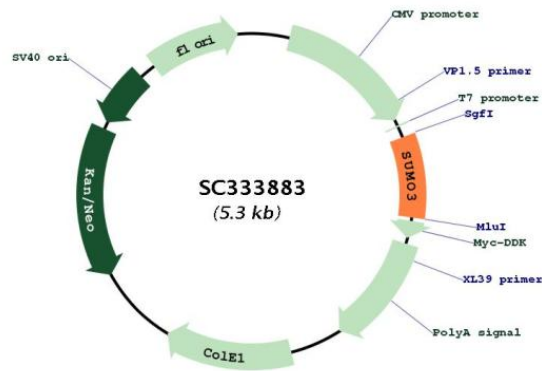
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGTCCGAGGAGAAGCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGGCCGGG
CAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTAC
TGCGAGAGGCAGGTGCGGCACCTTGCTCCCCCGCAGAGCCTCCCCGTGTGCGCACTGGTCTGTGCGTT
CCAGGCATCCCCAGAGCACGAGCGTCTCGGGGCTGGACCCAGATGCAGCTGCCGAGGGCTTGTCATG
AGGCAGATCAGATTCAGTTTCGACGGGCAGCCAATCAATGAAACTGACACTCCAGCACAGCTGGAGATG
GAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGAGAGCAGCCTGCCAGGG
CACAGTTTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



<b>ACCN:</b>	NM_001286416
<b>Insert Size:</b>	426 bp
<b>OTI Disclaimer:</b>	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).
<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="https://www.ncbi.nlm.nih.gov/RefSeq/record/NM_001286416.1">NM_001286416.1</a>

RefSeq Size: 1945 bp

RefSeq ORF: 426 bp

Locus ID: 6612

UniProt ID: [P55854](#)

Cytogenetics: 21q22.3

Protein Families: Druggable Genome

MW: 15.8 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]  
Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site compared to variant 1. The resulting longer isoform (2) has an internal protein segment not found in isoform 1.