

## Product datasheet for **SC321415**

### Sumo 1 (SUMO1) (NM\_003352) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sumo 1 (SUMO1) (NM_003352) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sumo 1
Synonyms:	DAP1; GMP1; OFC10; PIC1; SENP2; SMT3; SMT3C; SMT3H3; UBL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003352.4  
 CGTAGCGGAAGTTACTGCAGCCGCGTGTGTGCTGTGGGGAAGGGAGAAGGATTTGTAA  
 ACCCCGGAGCGAGGTTCTGCTTACCCGAGCCGCTGCTGTGCGGAGACCCCGGTTGAAG  
 CCACCGTCATCATGTCTGACCAGGAGGCAAACCTTCAACTGAGGACTTGGGGGATAAGA  
 AGGAAGGTGAATATATTAACCTCAAAGTCATTGGACAGGATAGCAGTGAGATTCACTTCA  
 AAGTAAAATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAAAGACAGGGTG  
 TTCCAATGAATCACTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTC  
 CAAAAGAAGTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACGGGGG  
 GTCATTCAACAGTTTAGATATTCTTTTTATTTTTTTTTCTTTCCCTCAATCCTTTTTTA  
 TTTTTAAAAATAGTTCTTTTGAATGTGGTGTCAAACCGAATTGAAAAGTGGCACCCC  
 ATCTCTTTGAAACATCTGGTAATTTGAATTCTAGTGCTCATTATTCATTATTGTTTGT  
 TCATTGTGCTGATTTTTGGTGATCAAGCCTCAGTCCCCTTCATATTACCTCTCCTTTTT  
 AAAAATTACGTGTGCACAGAGAGGTCACCTTTTTCAGGACATTGCAATTTTCAGGCTTGTG  
 GTGATAAATAAGATCGACCAATGCAAGTGTTCATAATGACTTTCCAATTGGCCCTGATGT  
 TCTAGCATGTGATTACTTCACTCCTGGACTGTGACTTTTCAGTGGGAGATGGAAAGTTTTTC  
 AGAGAAGTGAAGTGTGAAAAATGACCTTTCTTAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
 GGGTCTGGACAAAAGAAGAGGAATATCAGGTTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
 GTAATGACTAACTCCAAGATGGCTTCACTGAAGAAAAGGCATTTTAAGATTTTTAAAA  
 ATCTTGTGCAAGATCCCAGAAAAGTTCTAATTTTCATTAGCAATTAATAAGCTATACA  
 TGCAGAAATGAATACAACAGAACACTGCTTTTTGATTTTATTTGTACTTTTTGGCCTG  
 GGATATGGTTTTAAATGGACATTGTCTGTACCAGCTTCATTAATAAACAATATTTGT  
 AAAAATCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003352



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_003352.4</a> , <a href="#">NP_003343.1</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	306 bp
<b>Locus ID:</b>	7341
<b>UniProt ID:</b>	<a href="#">P63165</a>
<b>Cytogenetics:</b>	2q33.1
<b>Domains:</b>	UBQ
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).</p>