

## Product datasheet for **SC301034**

### Sumo 1 (SUMO1) (NM\_001005782) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sumo 1 (SUMO1) (NM_001005782) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sumo 1
Synonyms:	DAP1; GMP1; OFC10; PIC1; SENP2; SMT3; SMT3C; SMT3H3; UBL1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001005782, the custom clone sequence may differ by one or more nucleotides</p> <p>ATGTCTGACCAGGATAGCAGTGAGATTCACCTTCAAAGTGAAAATGACAACACATCTCAAG          AAACCTCAAAGAATCATACTGTCAAAGACAGGGTGTCCAATGAATTCACCTCAGGTTTCTC          TTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTGGGAATGGAGGAAGAA          GATGTGATTGAAGTTTATCAGGAACAAACGGGGGGTCATTCAACAGTTTAG</p>
Restriction Sites:	Please inquire
ACCN:	NM_001005782
OTI Disclaimer:	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).
OTI Annotation:	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.
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"> <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>


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RefSeq: [NM\\_001005782.1](#), [NP\\_001005782.1](#)

RefSeq Size: 1452 bp

RefSeq ORF: 231 bp

Locus ID: 7341

UniProt ID: [P63165](#)

Cytogenetics: 2q33.1

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**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]  
Transcript Variant: This variant (3) lacks an in-frame coding exon compared to variant 1, resulting in a shorter isoform (b), compared to isoform a. The amino acid sequence of isoform b is predicted and has not been experimentally verified.