

## Product datasheet for SC115793

### Sumo 2 (SUMO2) (NM\_006937) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sumo 2 (SUMO2) (NM_006937) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sumo 2
Synonyms:	HSMT3; Smt3A; SMT3B; SMT3H2; SUMO3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115793 sequence for NM_006937 edited (data generated by NextGen Sequencing)

```
ATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTG
AAGGTGGCGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTT
AGTAAACTAATGAAAGCCTATTGTGAACGACAGGGATTGTCAATGAGGCAGATCAGATTC
CGATTTGACGGGCAACCAATCAATGAAACAGACACACCTGCACAGTTGAAATGGAGGAT
GAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGA
```

Clone variation with respect to NM\_006937.3

#### 5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_006937 unedited
AGACTTTGGATATTTGTAACCGACTTACTATAGGCGGCCGCGCATTTCGGCACGAGGGAGG
AGACTCCGGCGCTCGCCATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACA
ACGATCATATTAATTTGAAGGTGGCGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTA
AGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGGGATTGTCAA
TGAGGCAGATCAGATTCGATTTGACGGGCAACCAATCAATGAAACAGACACACCTGCAC
AGTTGAAATGGAGGATGAAGATAAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCT
ACTGAAAAGGAACTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACA
TTCTCAATTAGAAAAGTCAATTTGGTTCCACCACATCCTGACTACTACGTATAGTTTT
CTCTATTTCTTTATTTCCCCCTTCCCATTCTTTATTGTACATAAAGTAACTGGTATAT
GTGCACAAGCATATTGCATTTTTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTTGA
TTGACATCAAGTGGAGACGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCTTTC
TCCATTAGTGGCATGCTCATTAGCTCTTATCTTTATATTTCCAGTAGTTATTTTGCTCT
CACTGGTTTAAACAANAAAAAACAACACCTAAAAATCCTTGCATACCTTTGTCATTGN
AGAATNTAATGTTTTTCATTATCATTGGNAACCAGGACATTTTATACTTTTTTTGTCGT
ANCTGTTACTGTANGGCATCTGTCTTAAGTAGGATAAACTACTCTAAACAAAAAGATCC
```



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006937 unedited GCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTCATTTTAAACAAGAAGTTTA TTTAAACAACAAGAACGCTTTGACTTGGGAAGGGAAAACTATCTAGGATTCTTTTTTGT TTAGAGTAATTTATCCCTACTTAAAGACAGATTGCCCTACATGTAACAGCTACGTACAAA AAAGTTATAAAATTGCCTTGGTTTTACAATGATAAATGAAAAACATTAATTTCTCCAA TTGAACAAGGTATGCAAGGATTTTTATGTTGTTGTTTTTTTTTTTTTTTGTAAAAACAGTGAG AGCAAAATAACTTACTGGAATATAAAGATAAGAGCTGAATGAGCATGCCACTAATGGAGA AAGGGGGTATTTTCACAGAATCAGTATTTTTCCCATCCCGTCTCCACTTGATGTCAATC AAAACATACCATTGGCTGTTTAGTTAAAAAATAAATAAATGCAATATGCTTGTGCACAT ATACCAGTTACTTTATGTACAATAAAGGAATGGGGAAGGGGAAATGAAAGAATAGAGAA AACTATACGGTAGTAGTCAGGATGTGGTGAACCAAATTCAGTTTTCTAATTGAGAATG TAATCTTGGTCTTTAAGAACAGAGTTCTGGAGTAAAGAAGCAGGTTCCCTTTTCAGTAG ACACCTCCCGTCTGCTGTGGAACACATCAATTGTATCTTCATCCTCCATTTCCAAGTGT GCAGGGTGTGCTGTTTCATTGATTGGTTGCCCGTCAAATCGGAATCTGATCTGCCTCAT TGACAATCCCTGTCGTNACAATAGGGCTTCATTAGNTTACTAAGGGGGGTATGCCTCTT AATCTTAACTGCACCACAACCATCCTGCCCGCCACCTTCAAATAATATGATACGTGTT CTCAGTCTTGACTCCTTCCTTGGGCTTTTCGTNCGCATGGCAGCGCCGGAGTCTCTC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006937
<b>Insert Size:</b>	980 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="#">NM_006937.3</a> , <a href="#">NP_008868.3</a>
<b>RefSeq Size:</b>	1066 bp
<b>RefSeq ORF:</b>	288 bp
<b>Locus ID:</b>	6613
<b>UniProt ID:</b>	<a href="#">P61956</a>
<b>Cytogenetics:</b>	17q25.1
<b>Domains:</b>	UBQ
<b>Protein Families:</b>	Druggable Genome

**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 two amino acids of the carboxy-terminus have been cleaved off. Numerous 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 (1) represents the longer transcript and encodes the longer isoform (a).