

## Product datasheet for **MC225699**

### Sumo3 (NM\_001301673) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sumo3 (NM\_001301673) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sumo3  
**Synonyms:** 2810014B19Rik; D10Ert345; D10Ert345e; SMT; SMT3A; Smt3h; Smt3h1; SUMO-3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225699 representing NM\_001301673  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGGAAGAGAAGCCCAAGGTAAGCCCGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAAG  
TGGCGGGCAGGATGGCTCGGTGGTACAGTTCAAGATCAAGAGGCACACCCCACTGAGCAAGCTGATGAA  
GGCCTACTGTGAGAGGCAGGGCTTGTCAATGAGGCAGATTCGATTCGGTTTGTGGACAACCAATCAAT  
GAAACAGACACTCCAGCCAGCTGGAGATGGAGGATGAGGACACCATTGATGTATTCCAGCAGCAGACAG  
GAGGATCAGCCTCCCAGGGAGCGTCCCACACCCAACCGTTGTCTGACCTGTGCTAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001301673  
**Insert Size:** 342 bp  
**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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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|-------------------------------|---|
| <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>                | <u>NM_001301673.1, NP_001288602.1</u>   |
| <b>RefSeq Size:</b>           | 2639 bp   |
| <b>RefSeq ORF:</b>            | 342 bp  |
| <b>Locus ID:</b>              | 20610   |
| <b>UniProt ID:</b>            | <u>Q9Z172</u>   |
| <b>Cytogenetics:</b>          | 10 39.72 cM   |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the small ubiquitin-like modifier family. The encoded protein may regulate a variety of proteins in many pathways via a post-translational modification, known as SUMOylation. This activity may play a role in a wide variety of cellular processes, including nuclear transport, DNA replication and repair, mitosis, transcriptional regulation, and signal transduction. Disruption of some of these processes has been associated with cerebral ischemia, neural dysfunction, and heart disease. A pseudogene of this gene has been defined on the X chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]</p> <p>Transcript Variant: This variant (4) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a longer protein (isoform 4), compared to isoform 1.</p> |