

## Product datasheet for **MR227820**

### Sumo3 (NM\_001301672) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sumo3 (NM\_001301672) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Sumo3  
**Synonyms:** 2810014B19Rik; D10Erttd345; D10Erttd345e; SMT; SMT3A; Smt3h; Smt3h1; SUMO-3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR227820 representing NM\_001301672  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGGAAGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAAGTGCGGGGC  
AGGATGGCTCGGTGTACAGTTCAAGATCAAGAGGCACACCCACTGAGCAAGCTGATGAAGGCCTACTG  
TGAGAGGCAGGGCTTGTCAATGAGGCAGATTCGATTCCGGTTTGTGGACAACCAATCAATGAAACAGAC  
ACTCCAGCCAGCAGACAGGAGGATCAGCCTCCCGAGGGAGCGTCCCCACACCAACCGTTGTCCTGACC  
TGTGCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227820 representing NM\_001301672  
Red=Cloning site Green=Tags(s)

MSEEKPKEGVKTENDHINLKVAGQDGSVVQFKIKRHPLSKLMKAYCERQGLSMRQIRFRFDGQPINETD  
TPAQTGGASARGSVPTPNRCPDLCY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

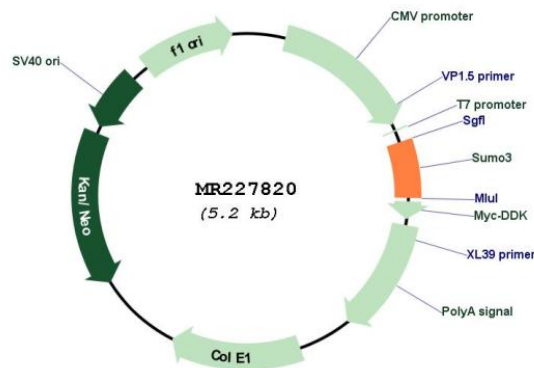


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001301672

ORF Size: 288 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001301672.1</a> , <a href="#">NP_001288601.1</a>
<b>RefSeq Size:</b>	2588 bp
<b>RefSeq ORF:</b>	291 bp
<b>Locus ID:</b>	20610
<b>UniProt ID:</b>	<a href="#">Q9Z172</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>MW:</b>	11.2 kDa
<b>Gene Summary:</b>	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]