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# Product datasheet for MR225911

## Sumo3 (NM_019929) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Sumo3 (NM_019929) Mouse Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Sumo3 |
| **Synonyms:** | 2810014B19Rik; D10Ertd345; D10Ertd345e; SMT; SMT3A; Smt3h; Smt3h1; SUMO-3 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **ORF Nucleotide Sequence:** | >MR225911 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGTCGGAAGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAAGTGGCGGGGC<br>AGGATGGCTCGGTGGTACAGTTCAAGATCAAGAGGCACACCCCACTGAGCAAGCTGATGAAGGCCTACTG<br>TGAGAGGCAGGGCTTGTCAATGAGGCAGATTCGATTCCGGTTTGATGGACAACCAATCAATGAAACAGAC<br>ACTCCAGCCCAGCTGGAGATGGAGGATGAGGACACCATTGATGTATTCCAGCAGCAGACAGGAGGATCAG<br>CCTCCCGAGGGAGCGTCCCCACACCCAACCGTTGTCCTGACCTGTGCTAT<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Protein Sequence:** | >MR225911 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MSEEKPKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETD<br>TPAQLEMEDEDTIDVFQQQTGGSASRGSVPTPNRCPDLCY<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Restriction Sites:** | SgfI-MluI |

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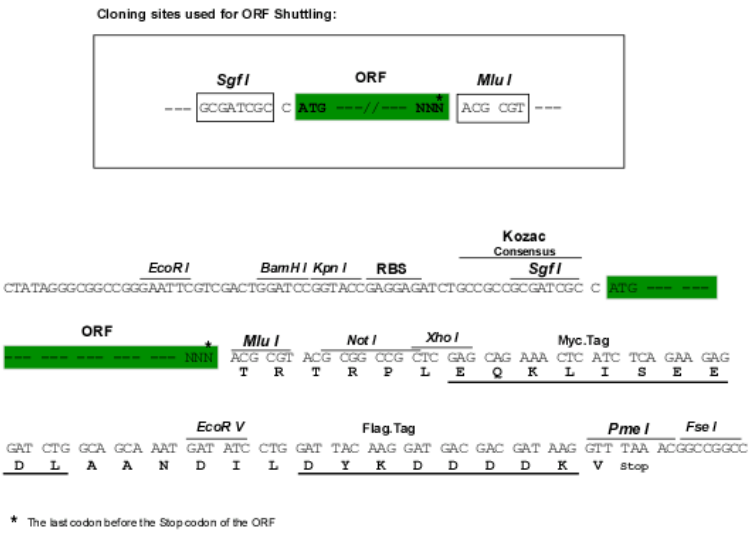
**Cloning Scheme:**




**ACCN:** NM_019929

**ORF Size:** 333 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

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**Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** NM_019929.4, NP_064313.1

**RefSeq Size:** 2630 bp

**RefSeq ORF:** 333 bp

**Locus ID:** 20610

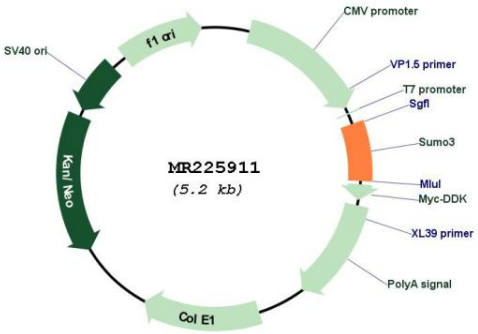
**UniProt ID:** Q9Z172

**Cytogenetics:** 10 39.72 cM

**MW:** 12.4 kDa

**Gene Summary:** 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]

## Product images:




Circular map for MR225911

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