

Product datasheet for MG225911

Sumo3 (NM_019929) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

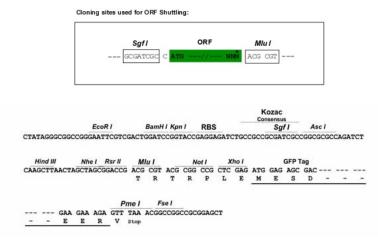
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Product Type:	Expression Plasmids
Product Name:	Sumo3 (NM_019929) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sumo3
Synonyms:	2810014B19Rik; D10Ertd345; D10Ertd345e; SMT; SMT3A; Smt3h; Smt3h1; SUMO-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>MG225911 representing NM_019929 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GC <mark>CGCGATCGC</mark> C
	ATGTCGGAAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAAGTGGCGGGGC AGGATGGCTCGGTGGTACAGTTCAAGATCAAGAGGCACACCCCACTGAGCAAGCTGATGAAGGCCTACTG TGAGAGGCAGGGCTTGTCAATGAGGCAGATTCGGATTCCGGTTTGATGGACAACCAATCAAT
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>MG225911 representing NM_019929 Red=Cloning site Green=Tags(s)</pre>
	MSEEKPKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETD TPAQLEMEDEDTIDVFQQQTGGSASRGSVPTPNRCPDLCY
	TRTRPLE - GFP Tag - V
Chromatograms:	https://cdn.origene.com/chromatograms/ja1821_a05.zip
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



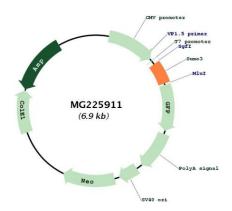
ACCN:	NM_019929
ORF Size:	330 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 019929.4, NP 064313.1</u>
RefSeq Size:	2493 bp
RefSeq ORF:	333 bp
Locus ID:	20610
UniProt ID:	<u>Q9Z172</u>
Cytogenetics:	10 39.72 cM
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 MG225911

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