

## Product datasheet for **MG203199**

### Sod3 (NM\_011435) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sod3 (NM_011435) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sod3
Synonyms:	A1314465; EC-SOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203199 representing NM_011435 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGCCTTCTTGTTCTACGGCTTGCTACTGGCGGCCTGTGGCTCTGTCACCATGTCAGATCCAGGGG  
AGTCCAGCTTCGACCTAGCAGACAGGCTTGACCCGGTTGAGAAGATAGACAGGCTTGACCTGGTTGAGAA  
GATAGGCGACACGCATGCCAAAGTGCTGGAGATCTGGATGGAGCTAGGACGACGAAGGGAGGTGGATGCT  
GCCGAGATGCATGCAATCTGCAGGGTACAACCATCAGCCACGCTGCCACCGGATCAGCCACAGATCACCG  
GCTTGGTTCTCTCCGGCAGCTGGGGCCGGCTCCAGGCTTGAGGCCTATTTAGTCTGGAGGGCTTCCC  
AGCTGAGCAGAACGCCTCCAACCGTGCCATCCAGTGATGAGTTCGGGGACCTGAGCCAGGGCTGCGAT  
TCCACCGGCCCGCACTACAACCGATGGAGGTGCCGCACCCCTCAGCACCCGGGCGACTTTGGCAACTTCG  
TGGTGCACAACGGCCAGCTCTGGAGGCATCGCGTCGGCCTGACCGCGTCGCTGGCCGGACCGCACTCCAT  
CTTGGGCCGCTCTGTGGTGGTCCACGCCGGCGAGGACGACCTGGGTAAAGGTGGCAACAGGCCAGCCTG  
CAGAACGGCAATGCAGGTCGCCGGCTCGCTGCTGCGTGGTAGGCACCAGCAGCTCCGCCGCTGGGAGA  
GCCAGACAAAGGAGCGCAAGAAGCGGGCGGGAGAGCGAGTGCAAGACCACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203199 representing NM\_011435  
 Red=Cloning site Green=Tags(s)

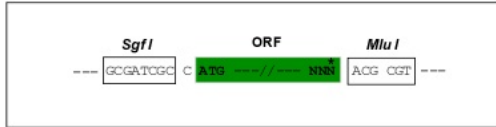
MLAFLFYGLLLAACGSVMTSDPGESSFDLADRLDPVEKIDRLDLVEKIGDTHAKVLEIWMELGRRREVDA  
 AEMHAICRVQPSATLPPDQPQITGLVLFRLGPGSRLEAYFSLEGFPAEQNASNRAIHVHEFGDL SQGCD  
 STGPHYNPMEVPHQPHPGDFGNFVVRNQLWRHRVGLTASLAGPHSILGRSVVHAGEDDLGKGGNQASL  
 QNGNAGRRLACCVVGTSSSAAWESQTKERKKRRRESECKTT

TRTRPLE - GFP Tag - V

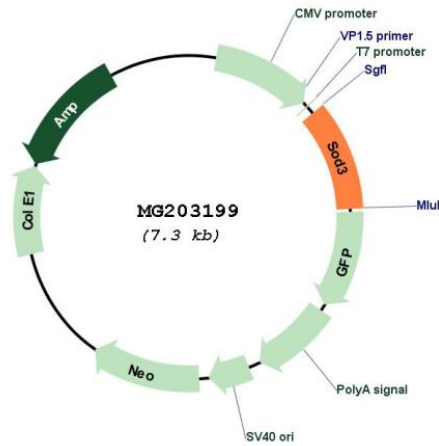
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_011435

ORF Size: 753 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_011435.3</a> , <a href="#">NP_035565.1</a>
<b>RefSeq Size:</b>	2045 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	20657
<b>UniProt ID:</b>	<a href="#">O09164</a>
<b>Cytogenetics:</b>	5 27.92 cM
<b>Gene Summary:</b>	Protect the extracellular space from toxic effect of reactive oxygen intermediates by converting superoxide radicals into hydrogen peroxide and oxygen.[UniProtKB/Swiss-Prot Function]