

Product datasheet for **MR203199**

Sod3 (NM_011435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sod3 (NM_011435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sod3
Synonyms:	A1314465; EC-SOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203199 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGCCTTCTTGTTCTACGGCTTGCTACTGGCGGCCTGTGGCTCTGTCACCATGTCAGATCCAGGGG
AGTCCAGCTTCGACCTAGCAGACAGGCTTGACCCGTTGAGAAGATAGACAGGCTTGACCTGGTTGAGAA
GATAGGCGACACGCATGCCAAAGTGCTGGAGATCTGGATGGAGCTAGGACGACGAAGGGAGGTGGATGCT
GCCGAGATGCATGCAATCTGCAGGGTACAACCATCAGCCAGCTGCCACCGGATCAGCCACAGATCACCG
GCTTGGTTCTCTCCGGCAGCTGGGCGGGCTCCAGGCTTGAGGCCTATTTAGTCTGGAGGGCTTCCC
AGCTGAGCAGAACGCCTCCAACCGTGCCATCCAGTGCATGAGTTCGGGGACCTGAGCCAGGGCTGCGAT
TCCACCGGCCCGCACTACAACCCGATGGAGGTGCCGCACCCCTCAGCACCCGGGCGACTTTGGCAACTTCG
TGGTGGCAACCGCCAGCTCTGGAGGCATCGCGTCGGCCTGACCGCGTCGCTGGCCGGACCGCACTCCAT
CTTGGGCCGCTCTGTGGTGGTCCACGCCGGCGAGGACGACCTGGGTAAAGGTGGCAACAGGCCAGCCTG
CAGAACGGCAATGCAGGTGCGCGGCTCGCTGCTGCGTGGTAGGCACCAGCAGCTCCGCCGCTGGGAGA
GCCAGACAAAGGAGCGCAAGAAGCGGCGGGGAGAGCGAGTGCAAGACCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203199 protein sequence
 Red=Cloning site Green=Tags(s)

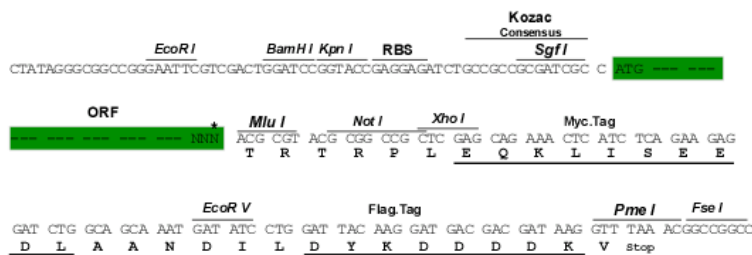
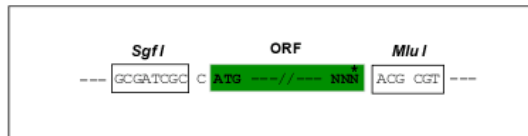
MLAFLFYGLLLAACGSVTMSDPGESSFDLADRLDPVEKIDRLDLVEKIGDTHAKVLEIWMELGRRREVDA
 AEMHAICRVQPSATLPPDQPQITGLVLFRLGPGSRLEAYFSLEGFPAEQNASNRAIHVHEFGDL SQGCD
 STGPHYNPMEVPHQHPGDFGNFVVRNQLWRHRVGLTASLAGPHSILGRSVVHAGEDDLGKGGNQASL
 QNGNAGRRLACCVVGTSSSAAWESQTKERKKRRRESECKTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011435

ORF Size: 756 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](#)

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).

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_011435.1](#), [NM_011435.2](#), [NM_011435.3](#), [NP_035565.1](#)

RefSeq Size: 2045 bp

RefSeq ORF: 756 bp

Locus ID: 20657

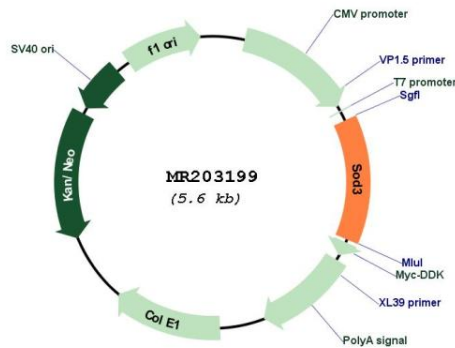
UniProt ID: [O09164](#)

Cytogenetics: 5 27.92 cM

MW: 27.4 kDa

Gene Summary: Protect the extracellular space from toxic effect of reactive oxygen intermediates by converting superoxide radicals into hydrogen peroxide and oxygen.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203199