

## Product datasheet for **MR201642**

### Sod2 (BC066063) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sod2 (BC066063) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sod2
Synonyms:	MnSOD, MGC6144
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201642 representing BC066063 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTGTCGGGCGGCGTGCAGCACGGGCAGGAGGCTGGGCCCTGTGGCCGGTGCCGCGGGCTCCCGGC  
ACAAGCACAGCCTCCCAGACCTGCCTTACGACTATGGCGCGCTGGAGCCACACATTAACGCGCAGATCAT  
GCAGCTGCACCACAGCAAGCACCACGCGGCCTACGTGAACAATCTCAACGCCACCGAGGAGAAGTACCAC  
GAGGCTCTGGCCAAGGAGATGTTACAACCTCAGGTCGCTCTTCAGCCTGCACTGAAGTTCAATGGTGGG  
GACATATTAATCACACCATTTTCTGGACAAACCTGAGCCCTAAGGGTGGTGGAGAACCCAAAGGAGAGTT  
GCTGGAGGCTATCAAGCGTGACTTTGGGTCTTTTGAGAAGTTTAAGGAGAAGCTGACAGCCGTGTCTGTG  
GGAGTCCAAGGTTCAAGGCTGGGGCTGGCTTGGCTTCAATAAGGAGCAAGGTCGCTTACAGATTGCTGCCT  
GCTCTAATCAGGACCCATTGCAAGGAACAACAGGCCTGTGTTCACTCTGCTCTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja3199\\_a12.zip](https://cdn.origene.com/chromatograms/ja3199_a12.zip)

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: BC066063

ORF Size: 546 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](mailto: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).

**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:** [BC066063](#)

**RefSeq Size:** 4089 bp

**RefSeq ORF:** 548 bp

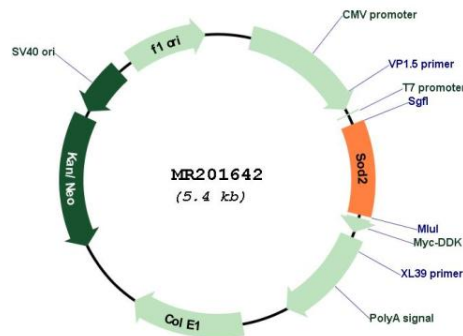
**Locus ID:** 20656

**Cytogenetics:** 17 8.75 cM

**MW:** 149.9 kDa

**Gene Summary:** Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR201642