

Product datasheet for **MC203718**

Sod2 (NM_013671) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sod2 (NM_013671) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sod2
Synonyms: MnSOD; Sod-2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC010548
 CGGCCGTGTTCTGAGGAGAGCAGCGGTCGTGTAACCTCAATAATGTTGTGTCGGGCGGCGTGCAGCAGC
 GGCAGGAGGCTGGGCCCTGTGGCCGGTGCCGGGCTCCCGGCACAAGCACAGCCTCCCAGACCTGCCTT
 ACGACTATGGCGCGCTGGAGCCACACATTAACGCGCAGATCATGCAGCTGCACCACAGCAAGCACCACGC
 GGCTACGTGAACAATCTCAACGCCACCGAGGAGAAGTACCACGAGGCTCTGGCCAAGGGAGATGTTACA
 ACTCAGGTCGCTCTTACGCTGCACTGAAGTTCATGGTGGGGACATATTAATCACACCATTTTCTGGA
 CAAACCTGAGCCCTAAGGGTGGTGGAGAACCCAAAGGAGATTGCTGGAGGCTATCAAGCGTGACTTTGG
 GTCTTTTGAAGTTAAGGAGAAGCTGACAGCCGTGTCTGTGGGAGTCCAAGGTTCAAGGCTGGGGCTGG
 CTTGGCTTCAATAAGGAGCAAGGTCGCTTACAGATTGCTGCCTGCTCTAATCAGGACCCATTGCAAGGAA
 CAACAGGCCTTATCCGCTGCTGGGATTGACGTGTGGGAGCACGCTTACTACCTTCAGTATAAAAAACGT
 CAGACCTGACTATCTGAAAGCTATTTGGAATGTAATCAACTGGGAGAATGTTACTGAAAGATACACAGCT
 TGCAAGAAGTAAACCTCACTCACGGCCACATTGAGTGCCAGGCTCCGGGCTGGTTTATAGTAGTGTAGA
 GCATTGCAGCACTATGACTGGGGTGTGTAGTCTTTATTGATGTCTTTCCACATACCTGATAAATTCTATG
 ATAATTTCTTATTTAATTAATCTATTCTTAGGCAACTATTTGAGAACAGCGCATACTCTGTGTGAATT
 GCTCTTGATTGAACATTTTCGTTAGAGCCTTGAATTGCTTGGATGCTATAGCTGTATTATAAGACCATC
 AGAAATATCCCATCTCTGTTTTGGGGGGCCTGTAGGAGAGTCTGTAATCCTGTTCTACTGCAGTTAGAAA
 AAAAGTTGAGTTGTTCCCCCTGCCCTGAGTTGTTGAATAGTGAATAGAGAACCAAATAGTTCTCTT
 TTCTATTAATAAATGCTATTTTTGTAAGTAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_013671
Insert Size: 669 bp



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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](#)

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: [BC010548](#), [AAH10548](#)

RefSeq Size: 1162 bp

RefSeq ORF: 669 bp

Locus ID: 20656

UniProt ID: [P09671](#)

Cytogenetics: 17 8.75 cM

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