

Product datasheet for **MG201145**

Sod1 (NM_011434) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sod1 (NM_011434) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sod1
Synonyms: B430204E11Rik; Cu/Zn-SOD; CuZnSOD; lpo-1; lpo1; Sod-1; SODC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201145 representing NM_011434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGATGAAAGCGGTGTGCGTGCTGAAGGGCGACGGTCCGGTGCAGGGAACCATCCACTTCGAGCAGA
 AGGCAAGCGGTGAACCAGTTGTGTTGTGTCAGGACAAATTACAGGATTAAGTGAAGGCCAGCATGGTTCCA
 CGTCCATCAGTATGGGACAATACACAAGGCTGTACCAGTGCAGGACCTCATTTTAACTCCTACTCTAAG
 AAACATGGTGGCCCGCGGATGAAGAGAGGCATGTTGGAGACCTGGCAATGTGACTGCTGAAAGGACG
 GTGTGGCCAATGTGTCCATTGAAGATCGTGTGATCTCACTCTCAGGAGAGCATTCCATCATTGGCCGTAC
 AATGGTGGTCCATGAGAAACAAGATGACTTGGCAAAAGGTGGAATGAAGAAAGTACAAAGACTGGAAT
 GCTGGGAGCCGCTTGGCCTGTGGAGTGATTGGGATTGCGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201145 representing NM_011434
 Red=Cloning site Green=Tags(s)

MAMKAVCVLKGDPVQGTIHFEQKASGEPVVL SGQITGLTEGQHGFVHVHQYDNTQGCTSAGPHFNPHSK
 KHGGPADEERHVGDLGNVTAGKDGVANVSIEDRVISLSGEHSIIIGRTMVVHEKQDDLKGGNGNEESTKTGN
 AGSRLACGVIGIAQ

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3088_a09.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_011434

ORF Size: 462 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 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.

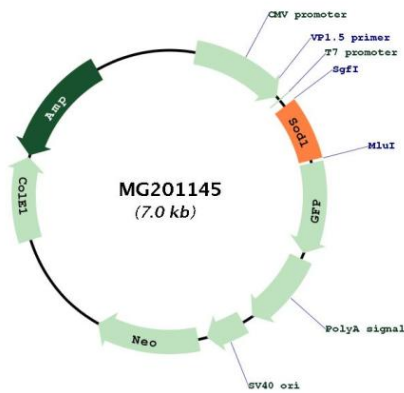
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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: [NM_011434.2](#)
 RefSeq Size: 661 bp
 RefSeq ORF: 465 bp
 Locus ID: 20655
 UniProt ID: [P08228](#)
 Cytogenetics: 16 51.56 cM
 Gene Summary: Destroys radicals which are normally produced within the cells and which are toxic to biological systems.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201145