

Product datasheet for **RR213719**

Sod2 (NM_017051) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sod2 (NM_017051) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sod2
Synonyms:	MnSOD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213719 representing NM_017051 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTGTCGGGCGCGTGCAGCGGGCAGAAGACTGGCCCCGCGGCCAGTACCGGGGCTCCCGGC
ACAAGCACAGCCTCCCTGACCTGCCTTACGACTATGGCGCGCTGGAGCCGCACATTAACGCGCAGATCAT
GCAGCTGCACCACAGCAAGCACCACGCGACCTACGTGAACAATCTGAACGTCACCGAGGAGAAGTACCAC
GAGGCGCTGGCCAAGGGAGATGTTACAACCTCAGGTTGCTCTTCAGCCTGCACTGAAGTTCATGGCGGGG
GCCATATCAATCAGCATTTTTCTGGACAACTGAGCCCTAAGGGTGGTGGAGAACCCAAAGGAGAGTT
GCTGGAGGCTATCAAGCGTGACTTTGGGTCTTTGAGAAGTTAAGGAGAACTGACAGCTGTGTCTGTG
GGAGTCCAAGGTTCAAGGCTGGGGCTGGCTTGGCTCAATAAGGAGCAAGGTCGCTTACAGATTGCCGCT
GCTTAATCAGGACCCACTGCAAGGAACACAGGCCTATTCCACTGCTGGGGATTGATGTGTGGGAGCA
CGCTTACTATCTCAGTATAAAAACGTCAGACCTGACTATCTGAAAGCCATTTGGAATGTAATCAACTGG
GAGAATGTTAGCCAAAGATACATAGTTTGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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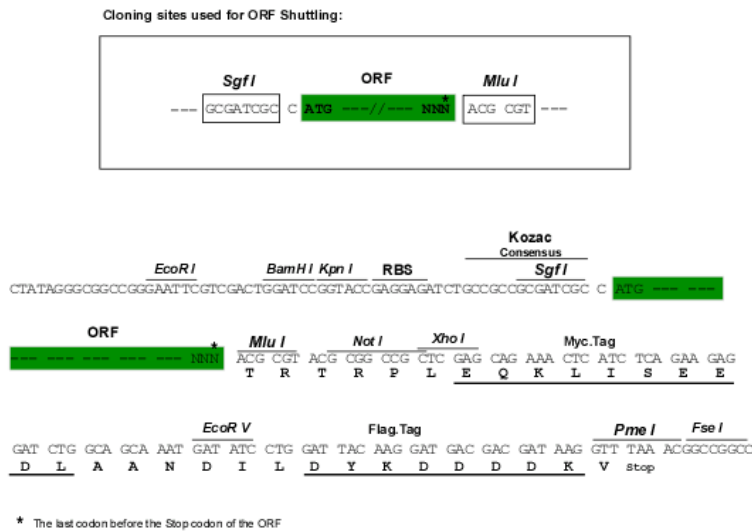
Protein Sequence: >RR213719 representing NM_017051
Red=Cloning site Green=Tags(s)

MLCRAACSAGRRLGPAASTAGSRHKHSLPDLPYDYGALEPHINAQIMQLHHSKHHATYVNNLNVTTEEKYH
 EALAKGDVTTQVALQPALKFNGGGHINHSIFWTNLSPKGGGEPKGELLEAIKRDFGSFEKFKELTAVSV
 GVQSGSGWLGFNKEQGRQLIAACSNQDPLQGTGLIPLLIDVWEHAYYLQYKNVSRPDYLKAIWVNVINW
 ENVSQRYIVCKK

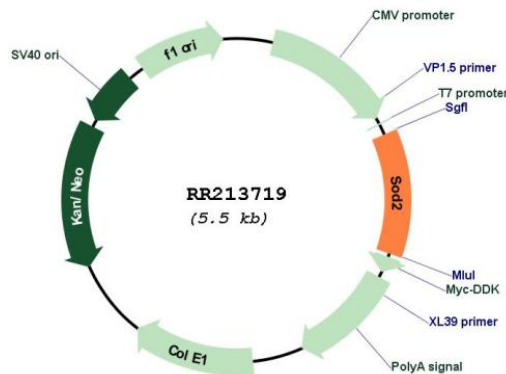
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017051

ORF Size: 666 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:	<ol style="list-style-type: none">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_017051.2 , NP_058747.1
RefSeq Size:	2090 bp
RefSeq ORF:	669 bp
Locus ID:	24787
UniProt ID:	P07895
Cytogenetics:	1q11
MW:	24.7 kDa
Gene Summary:	manganese superoxide dismutase; intramitochondrial free radical scavenging enzyme [RGD, Feb 2006]