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Product datasheet for SC202446

SOD2 (NM_001024466) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	SOD2 (NM_001024466) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	SOD2
Synonyms:	GClnc1; IPO-B; IPOB; Mn-SOD; MNSOD; MVCD6
ACCN:	NM_001024466
Insert Size:	284 bp
Insert Sequence:	>SC202446 3'UTR clone of NM_001024466 The sequence shown below is from the reference sequence of NM_001024466. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC ACTGAAAGATACATGGCTTGCAAAAAGTAACCACGATCGTTATGCTGATCATACCCTAATGATCCCAG CAAGATAATGTCCTGTCTTCTAAGATGTGCATCAAGCCTGGTACATACTGAAAACCCTATAAGGTCCTG GATAATTTTTGTTTGATTATTCATTGAAGAAACATTTATTTTCCAATTGTGTGAAGTTTTTGACTGTTA ATAAAAGAATCTGTCAACCATCAAAGAGGTCTGCATTATGCTTGCATGTCAAAAACTTTAAAAATCCTA TAATCTTC ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_001024466.3

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Summary: This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. [provided by RefSeq, Apr 2016]

Locus ID: 6648

MW: 10.9