

Product datasheet for **SC325581**

Methionine Sulfoxide Reductase A (MSRA) (NM_001135671) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Methionine Sulfoxide Reductase A (MSRA) (NM_001135671) Human Untagged Clone
Tag:	Tag Free
Symbol:	Methionine Sulfoxide Reductase A
Synonyms:	PMSR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325581 representing NM_001135671. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGTTCAAGACCCAAACATCATGTCAATGGCAACAGAACAGTCGAACCTTTCCAGAGGGAACACAG
ATGGCTGTATTTGGAATGGGATGTTTCTGGGGAGCTGAAAGGAAATTCGGGTCTTGAAAGGAGTGTAT
TCAACTCAAGTTGGTTTTGCAGGAGGCTATACTCAAATCCTACTTATAAAGAAGCTGCTCAGAAAAA
ACTGGCCATGCAGAAGTCGTCGGAGTGGTGTACCAGCCAGAACACATGAGTTTTGAGGAAGTCTCAAG
GTCTTCTGGGAGAATCACGACCCGACCAAGGTATGCGCCAGGGGAACGACCATGGCACTCAGTACCGC
TCGGCCATCTACCGACCTCTGCCAAGCAAATGGAGGCAGCCCTGAGCTCAAAGAGAAGTACCAAAAG
GTTCTTTCAGAGCACGGCTTCGGCCCCATCACTACCGACATCCGGGAGGGACAGACTTTCTACTATGCG
GAAGACTACCACAGCAGTACCTGAGCAAGAACCCCAATGGCTACTGCGGCTTGGGGGCACCGCGGTG
TCCTGCCAGTGGGTATTAATAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001135671
Insert Size:	579 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001135671.2
RefSeq Size:	1645 bp
RefSeq ORF:	579 bp
Locus ID:	4482
UniProt ID:	Q9UJ68
Cytogenetics:	8p23.1
MW:	21.5 kDa
Gene Summary:	<p>This gene encodes a ubiquitous and highly conserved protein that carries out the enzymatic reduction of methionine sulfoxide to methionine. Human and animal studies have shown the highest levels of expression in kidney and nervous tissue. The protein functions in the repair of oxidatively damaged proteins to restore biological activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]</p> <p>Transcript Variant: This variant (3) contains an alternate 5' terminal exon, and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (c) has a shorter and distinct N-terminus, compared to isoform a.</p>