

Product datasheet for **SC125496**

Methionine Sulfoxide Reductase A (MSRA) (NM_012331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Methionine Sulfoxide Reductase A (MSRA) (NM_012331) Human Untagged Clone
Tag:	Tag Free
Symbol:	Methionine Sulfoxide Reductase A
Synonyms:	PMSR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_012331 edited
 CGGCCGGAATTCGGTACGAGGCCAGCAGCGCCCCGCGCCCCGCGCCCCCTGCC
 GCCCCCCGGTTCGGCCGCGGACCCCACTCTGCGGTTCCGGCTGCGTTCGGCTGCCGG
 TAGCGCCGTCCCCGGGACCACCTTCGGCTGGCGCCCTCCCATGCTCTCGGCCACCCGG
 AGGGCTTGCCAGCTCCTCCTCCTCCACAGCCTTTTCCCGTCCCAGGATGGGCAACTCG
 GCCTCGAACATCGTCAGCCCCAGGAGCCTTGCCGGCCGGAAGGAACAGACCCCTGTA
 GCGGCCAAACATCATGTCAATGGCAACAGAACAGTCGAACCTTTCCAGAGGGAACACAG
 ATGGCTGTATTTGGAATGGGATGTTTCTGGGGAGCTGAAAGGAAATTCGGGTCTTGAAA
 GGAGTGTATTCAACTCAAGTTGGTTTTGCAGGAGGCTATACTTCAAATCCTACTTATAAA
 GAAGTCTGCTCAGAAAAAAGTGGCCATGCAGAAGTCGTCGAGTGGTGTACCAGCCAGAA
 CACATGAGTTTTGAGGAACTGCTCAAGTCTTCTGGGAGAATCACGACCCGACCCAAGGT
 ATGCGCCAGGGGAACGACCATGGCACTCAGTACCGCTCGGCCATCTACCCGACCTTGCC
 AAGCAAATGGAGGCAGCCCTGAGCTCAAAGAGAACTACCAAAGGTTCTTTAGAGCAC
 GGCTTCGGCCCCATCACTACCGACATCCGGGAGGGACAGACTTTCTACTATGCGGAAGAC
 TACCACAGCAGTACCTGAGCAAGAACCCCAATGGCTACTGCGGCCTTGGGGCACCCGGC
 GTGTCCTGCCAGTGGGTATTAATAAATAATTGCTCCCCACATGGTGGGCCTTTGAGGTT
 CCAGTAAAAATGCTTTCAACAAATTGGGCAATGCTTGTGTGATTACAATCGTGGCATT
 AAAGTGCACAAAGTACAAAGGAATTTATACAGATTGGGTTTACCGAAGTATAATCTATAG
 GAGGCGCGATGGCAAGTTGATAAAATGTGACTTATCTCCTAATAAGTTA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012331 unedited</p> <pre> AGCATTTTGTAAACGAACCTACTATAGGGCGGCCGGAATTCGTACGAGGCCAGCAGCG CCCCGCGCCCGCCCGCCCGCCCTGCCGCCCGCCCGGTTCCGGCCGCGGACCCACTCT CTGCCGTTCCGGCTGCGTTCCGCTGCCGGTAGCGCCGTCCCCGGGACCACCTTCGGCT GGCGCCCTCCCATGCTCTCGGCCACCCGAGGGCTTGCAGCTCCTCCTCCTCCACAGCC TCTTCCCGTCCCGAGGATGGCAACTCGGCCTCGAACATCGTCAGCCCCAGGAGGCTT TGCCGGGCCGGAAGGAACAGACCCTGTAGCGGCCAAACATCATGTCAATGGCAACAGAA CAGTCGAACCTTTCCAGAGGGAACACAGATGGCTGTATTTGGAATGGGATGTTTCTGGG GAGCTGAAAGGAAATTCTGGGTCTTGAAGGAGTGATTCAACTCAAGTTGGTTTTGCAG GAGGCTATACTTCAAATCCTACTTATAAAGAAGTCTGCTCAGAAAAAACTGGCCATGCAG AAGTCGTCGAGTGGTGTACCAGCCAGAACACATGAGTTTTGAGGAACTGCTCAAGGTCT TCTGGGAGAATCACGACCCGACCAAGGTATGCGCCAGGGGAACGACCATGGCACTCAGT ACCGCTCGGCCATCTACCCGACCTCTGCCAAGCAAATGGAGGCAGCCCTGAGCTCCAAG AGAACTACAAAAGTTCTTTTCCAGAGCACGGCTTCGGCCCATCACTACCGACATCCGGG GAGGGACAGACTNTCTACTATGCGGAAGACTACCACCAGCAGTACCTGAGCAAGACCCCA TGCTACTGCGGCTTGGGGCACCGCGTGTCTGCCAGTGGTATTAATAAATGCTCC CACATGGTGGCCTTTGAGGNTNCAGTAAATGCNTTCACAAATGGGGCATGTGTGTATAA CATCGTGCAATAAAGTGCCAA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012331 unedited</p> <pre> GGGGGACCACGACCCCTTCCCCCCCCNNGNNTTTCGTGNNCCGCGGACCCGATATTAN GATCCGTTTTTTTTTTTTTTTTTATGGCACGCAGTTTTTATAAACAAACATTTCTCAT AGCTCTAAGCAAAGCATTAGAAATTCATCAAGCGGACTCACATCTTTTCTCTGCACAGAG AAGGGCTGAAAAGGGAGAAAAAGTCCCTTATGTATGTCTAGATTTGGTAAAGCGAAGGA TTTCAGCGAATGAGTCACTGAGGCTATACACGTTTGCAAATTGTAAGGCACTGGCGGGCA GAGAGCACAGATAAAGGACTTCTGGGTCCCCATCCTGTCCAGCAACCTCCCAGCTCAC ACCTTAGCTTCTACCAAGAAGGGTGAACACAGCATCCCTGCTATCTTCACTCAGACCCCA GAAGACACAGGAAACCGCACAGCTCCACTCCCACCATAACTTATTAGGAGATAAGTCACA TTTTATCAACTTGCCATCGCGCTCCTATAGATTATACTTCGGTAAACCAATCTGTATA AATTCCTTTGTACTTTGTGCACCTTAAATGCCACGATTGTGAATCACACAAGCATTGCC AATTTGTTGAAAGCATTTTTACTGGAACCTCAAAGGCCACCCATGTGNGGAGCAATTAT TTTTTAAACCCACTGGGCACGACACCGGTGCCCCCAAGGCCGGAGTAACCATTGGG GTTCTTGTCTCAAGTACTGCTCGGTGGAATCCTTCCGAAAAAAAAGTCTGCCCTTCC GGATGCCGGTAGTGAAGGGGCCAAACCCGGGCTCTGAAAAGACCTTTTGAAGTTCTC CTTGGGAACCAAGCCTGCCCCATTTGCTTGGCAAAAGGCCGGTAAAATGCCCGAACCG GACCTGAATGGCCCTGGGCGTTCCTTGGCGCATAACCTTGGGNCGGGTGCCCGAATTT TTCCCAAAAACCCCTGGAGCCGTCTCTCAAAAACCCATGGGGCTGGGCTGGGACACCC CTTGAACAACATTTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_012331
Insert Size:	1500 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).
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_012331.2](#), [NP_036463.1](#)

RefSeq Size: 1502 bp

RefSeq ORF: 708 bp

Locus ID: 4482

UniProt ID: [Q9UJ68](#)

Cytogenetics: 8p23.1

Domains: PMSR

Gene Summary: 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]
Transcript Variant: This variant (1) encodes the longest isoform (a).