

Product datasheet for RC227449

OriGene Technologies, Inc.

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Methionine Sulfoxide Reductase A (MSRA) (NM 001135670) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Methionine Sulfoxide Reductase A (MSRA) (NM_001135670) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Methionine Sulfoxide Reductase A

Synonyms: PMSR

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC227449 representing NM_001135670
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GTCCTGCCCAGTGGGTATTAAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227449 representing NM_001135670

Red=Cloning site Green=Tags(s)

MLSATRRACQLLLLHSLFPVPRMGNSASNIVSPQEALPGRKEQTPVAAKHHVNGNRTVEPFPEGTQMAVF EKTGHAEVVRVVYOPEHMSFEELLKVFWENHDPTQGMRQGNDHGTQYRSAIYPTSAKQMEAALSSKENYQ

KVLSEHGFGPITTDIREGQTFYYAEDYHQQYLSKNPNGYCGLGGTGVSCPVGIKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



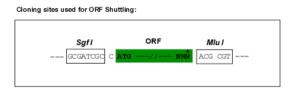
Methionine Sulfoxide Reductase A (MSRA) (NM_001135670) Human Tagged ORF Clone – RC227449

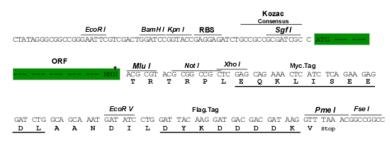
Chromatograms: https://cdn.origene.com/chromatograms/mg3830_e01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001135670

ORF Size: 585 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: 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.

RefSeg: NM 001135670.3

 RefSeq ORF:
 588 bp

 Locus ID:
 4482

UniProt ID: Q9UJ68



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Cytogenetics: 8p23.1

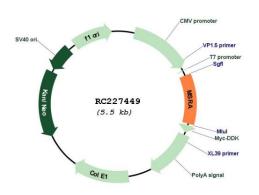
MW: 21.6 kDa

Gene Summary: This gene encodes a ubiquitous and highly conserved protein that carries out the enzymatic

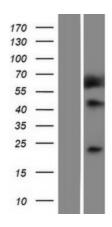
reduction of methionine sulfoxide to methionine. Human and animal studies have shown the highest levels of expression in kidney and nervous tissue. The protein functions in the repair of oxidatively damaged proteins to restore biological activity. Alternative splicing results in

multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RC227449



Western blot validation of overexpression lysate (Cat# [LY427660]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227449 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).