

MSRA cDNA

Catalog Number: ATGD0083

PRODUCT INFORMATION

Catalog number

ATGD0083

Product type

cDNA

Species

Human

NCBI Accession No.

NP_036463.1

Alternative Names

PMSR

mRNA Refseq

NM_012331.4

OMIM

601250

Chromosome location

8p23.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

708bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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MSRA (methionine sulfoxide reductase A) belongs to the MsrA Met sulfoxide reductase family. This enzyme has an important function as a repair enzyme for proteins that have been inactivated by oxidation. It catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine. In enzymology, a MSRA is an enzyme that catalyzes the chemical reaction. The 3 substrates of this enzyme are peptide-L-methionine, thioredoxin disulfide, and H₂O, whereas its two products are peptide-L-methionine (R) -S-oxide and thioredoxin.

DATA

Sequence nucleotides

```
ATGCTCTCGG CCACCCGGAG GGCTTGCCAG CTCCTCCTCC TCCACAGCCT CTTTCCCGTC CCGAGGATGG
GCAACTCGGC CTCGAACATC GTCAGCCCCC AGGAGGCCTT GCCGGGCCGG AAGGAACAGA CCCCTGTAGC
GGCCAAACAT CATGTCAATG GCAACAGAAC AGTCGAACCT TTCCCAGAGG GAACACAGAT GGCTGTATTT
GGAATGGGAT GTTTCTGGGG AGCTGAAAGG AAATTCTGGG TCTTGAAAGG AGTGTATTCA ACTCAAGTTG
GTTTTGCAGG AGGCTATACT TCAAATCCTA CTTATAAAGA AGTCTGCTCA GAAAAAACTG GCCATGCAGA
AGTCGTCCGA GTGGTGTACC AGCCAGAACA CATGAGTTTT GAGGAACTGC TCAAGGTCTT CTGGGAGAAT
CACGACCCGA CCCAAGGTAT GCGCCAGGGG AACGACCATG GCACTCAGTA CCGCTCGGCC ATCTACCCGA
CCTCTGCCAA GCAAATGGAG GCAGCCCTGA GCTCCAAAGA GAACTACCAA AAGGTTCTTT CAGAGCACGG
CTTCGGCCCC ATCACTACCG ACATCCGGGA GGGACAGACT TTCTACTATG CGGAAGACTA CCACCAGCAG
TACCTGAGCA AGAACCCCAA TGGCTACTGC GGCCTTGGGG GCACCGGCGT GTCCTGCCCA GTGGGTATTA AAAAATAA
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Transaction Sequence

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MLSATTRACQ LLLLHSLFPV PRMGNSASNI VSPQEALPGR KEQTPVAAKH HVNGNRTVEP FPEGTQMAVF GMGCFWGAER
KFWVLKGVYS TQVGFAGGYT SNPTYKEVCS EKTGHAEVVR VVYQPEHMSF EELLKVFWEN HDPTQGMRQG
NDHGTQYRSA IYPTSAKQME AALSSKENYQ KVLSEHGFGP ITTDIREGQT FYAEDYHQY YLSKNPNGYC GLGGTGVSCP
VGIKK
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