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# **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

#### **Transaction Sequence**

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

