

Product datasheet for **MR228394**

Msra (NM_001253716) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Msra (NM_001253716) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Msra
Synonyms: 2310045J23Rik; 6530413P12Rik; MSR-A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228394 representing NM_001253716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAAAGCCAAACACCATGTCAGTGGCAACAGAACGGTTGAACCTTTCCAGAGGGAACACAGATGG
 CTGTATTTGGAATGGGCTGCTTCTGGGAGCTGAGCGCAAGTTCTGGGTCTTCAAAGGAGTGTACTCAAC
 CCAAGTGGGCTTTCAGGAGGCCACACAGCAATCCCACCTACAAGAGGTCTGCTCAGAAAAACTGGC
 CACGCCAAGTCGTCGGGTTGTGTACCGCCAGAGCACATCAGCTTTGAGGAACTGCTCAAGGTCTTCT
 GGGAGAATCACGACCCGACCCAAGGCATGCGCCAAGGCAATGACTTTGGTACACAGTACCGGTACGACAGT
 CTATCCCACATCCGCCGTGCAGATGGAAGCAGCCCTGAGATCCAAGGAAGAATACCAAAAGGTTCTTTCA
 AAGCATAACTTTGGCCCCATCACCACCGACATCCGAGAGGGACAAGTGTCTACTATGCCGAAGACTACC
 ACCAGCAATACCTGAGCAAGAACCAGACGGCTACTGTGGCTCGGGGTACTGGAGTTTCTGCCCGAT
 GGCCATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228394 representing NM_001253716
 Red=Cloning site Green=Tags(s)

MSKAKHHVSGNRTVEPFPEGTQMAVFGMCFWGAERKFWLKVYSTQVGFAGGHTRNPTYKEVCSEKTG
 HAEVVRVYRPEHISFEELLKVFWENHDPTQGMROGNDFTQYRSVYPTSAVQMEALRSKEEYQKVL
 KHNFGPITTDIREGQVFYYAEDYHQYLSKNPDGYCGLGGTGVSCPMAIKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

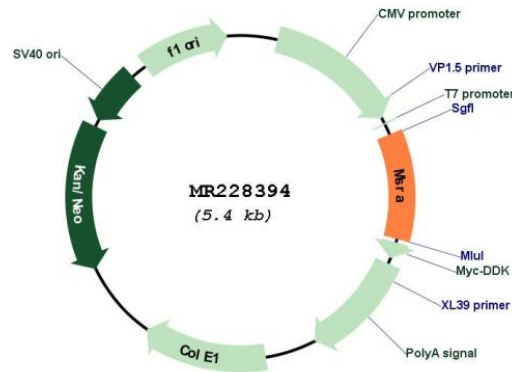
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001253716

ORF Size: 573 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.

RefSeq: [NM_001253716.1](#), [NP_001240645.1](#)

RefSeq Size: 1209 bp

RefSeq ORF: 576 bp

Locus ID: 110265

UniProt ID: [Q9D6Y7](#)

Cytogenetics: 14 33.36 cM

MW: 22 kDa

Gene Summary: Has an important function as a repair enzyme for proteins that have been inactivated by oxidation. Catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine (By similarity).[UniProtKB/Swiss-Prot Function]