

## Product datasheet for MR228528

### Msra (NM\_001253714) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Msra (NM\_001253714) 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:** >MR228528 representing NM\_001253714  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCTCTCCGCTCTAGAAGGGCTCTCCAGCTCCTCTCTAGCGCCAACCCGGTACGGAGGATGGGCGACT  
CAGTTTCGAAAGTCATCTCCGCAGAGGAAGCCTTGCCGGGACGCACCGAGCCGATCCCTGTAACAGGAAT  
GGGCTGCTTCTGGGGAGCTGAGCGCAAGTCTGGGTCTTCAAAGGAGTGTACTCAACCAAGTGGGCTTT  
GCAGGAGGCCACACACGCAATCCCACTACAAAGAGGTCTGCTCAGAAAAACTGGCCACGCCGAAGTCG  
TCCGGTTGTGTACCGGCCAGAGCACATCAGCTTTGAGGAAGTGTCAAGTCTTCTGGGAGAATCACGA  
CCCAGCCAAGGCATGCGCCAAGGCAATGACTTTGGTACACAGTACCGGTGAGCAGTCTATCCCACATCC  
GCCGTGCAGATGGAAGCAGCCCTGAGATCCAAGGAAGAAATACCAAAAGGTTCTTTCAAAGCATAACTTTG  
GCCCATCACCACCGACATCCGAGAGGGACAAGTGTCTACTATGCCGAAGACTACCACCAGCAATACCT  
GAGCAAGAACCAGACGGCTACTGTGGCTCGGGGTACTGGAGTTTCTGCCGATGGCCATTAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228528 representing NM\_001253714  
 Red=Cloning site Green=Tags(s)

MLSASRRALQLLSSANPVRRMGDSASKVISAEEALPGRTEPIPVTGMGCFWGAERKFVWLKGVYSTQVGF  
AGGHRNPTYKEVCSEKTGHAEVVVRVYRPEHISFEELLKVFWENHDPTQGMROGNDFTQYRSVYPTS  
AVQMEAALRSKEEYQKVLSKHNFPIITTDIREGQVFYFAEDYHQYLKSNPDGYCGLGGTGVSCPMAIKK

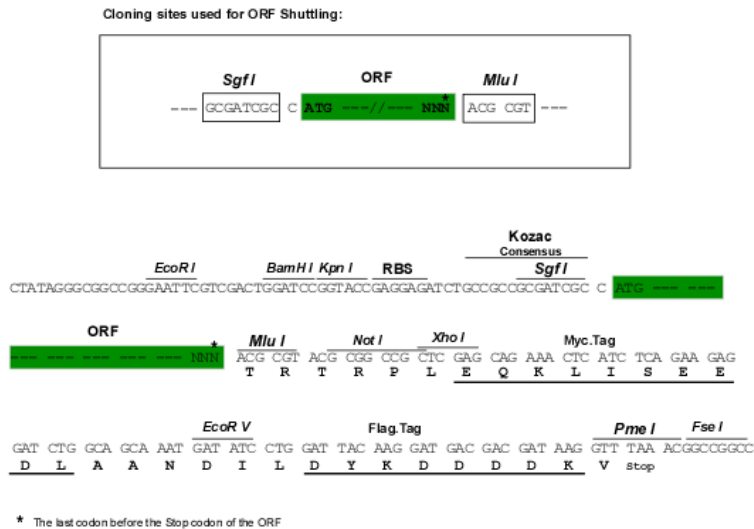
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

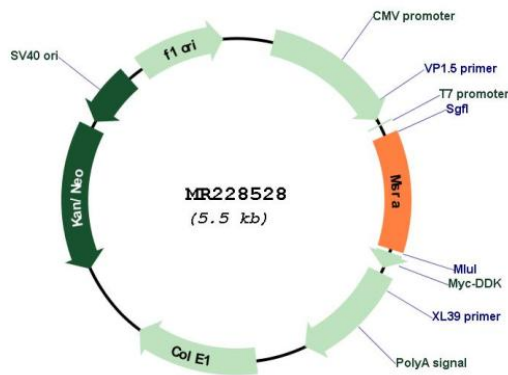


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001253714

ORF Size: 630 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\\_001253714.1](#), [NP\\_001240643.1](#)

**RefSeq Size:** 1398 bp

**RefSeq ORF:** 633 bp

**Locus ID:** 110265

**UniProt ID:** [Q9D6Y7](#)

**Cytogenetics:** 14 33.36 cM

**MW:** 23.9 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]