

Product datasheet for RC218272

MRAS (NM 001085049) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MRAS (NM 001085049) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: MRAS

Synonyms: M-RAs; NS11; R-RAS3; RRAS3

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

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

ORF Nucleotide >RC218272 representing NM_001085049
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218272 representing NM_001085049

Red=Cloning site Green=Tags(s)

MATSAVPSDNLPTYKLVVVGDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAG QEEFSAMREQYMRTGDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQ GKEMATKHNIPYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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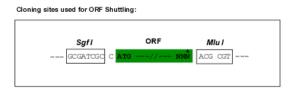
MRAS (NM_001085049) Human Tagged ORF Clone - RC218272

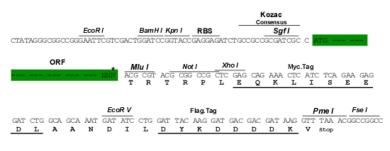
Chromatograms: https://cdn.origene.com/chromatograms/mk6480 d08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001085049

ORF Size: 624 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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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: <u>NM 001085049.3</u>

 RefSeq Size:
 4013 bp

 RefSeq ORF:
 627 bp

 Locus ID:
 22808

 UniProt ID:
 014807

 Cytogenetics:
 3q22.3

Protein Families: Druggable Genome

Protein Pathways: MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction

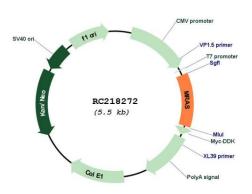
MW: 23.7 kDa

Gene Summary: This gene encodes a member of the Ras family of small GTPases. These membrane-

associated proteins function as signal transducers in multiple processes including cell growth and differentiation, and dysregulation of Ras signaling has been associated with many types of cancer. The encoded protein may play a role in the tumor necrosis factor-alpha and MAP kinase signaling pathways. Alternatively spliced transcript variants encoding multiple

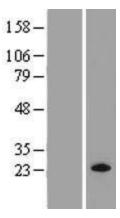
isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

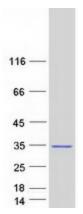
Product images:



Circular map for RC218272







Western blot validation of overexpression lysate (Cat# [LY421269]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218272 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MRAS protein (Cat# [TP318272]). The protein was produced from HEK293T cells transfected with MRAS cDNA clone (Cat# RC218272) using MegaTran 2.0 (Cat# [TT210002]).