

Product datasheet for RG233439

MRAS (NM 001252090) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MRAS (NM_001252090) Human Tagged ORF Clone

Tag: **TurboGFP**

MRAS Symbol:

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

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG233439 representing NM_001252090 Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAACCAGCGCCGTCCCCAGTGACAACCTCCCCACATACAAGCTGGTGGTGGTGGGGGGATGGGGGTG TGGGCAAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCTGACTATGACCCCACCATTGA AGACTCCTACCTGAAACATACGGAGATTGACAATCAATGGGCCATCTTGGACGTTCTGGACACAGCTGGG CAGGAGGAATTCAGCGCCATGCGGGAGCAATACATGCGCACGGGGGATGGCTTCCTCATCGTCTACTCCG TCACTGACAAGGCCAGCTTTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAGGGA GTCATTCCCGATGATCCTCGTGGCCAACAAGGTCGATTTGATGCACTTGAGGAAGATCACCAGGGAGCAA GGAAAAGAAATGGCGACCAAACACAATATTCCGTACATAGAAACCAGTGCCAAGGACCCACCTCTCAATG TCGACAAAGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATTCCGGAAAAAAAGCCAGAAGAAGAA GAAGAAAACCAAATGGCGGGGAGACCGGGCCACAGGCACCCACAAACTGCAATGTGTGATCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

>RG233439 representing NM_001252090 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MATSAVPSDNLPTYKLVVVGDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAG QEEFSAMREQYMRTGDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQ GKEMATKHNIPYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVIL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



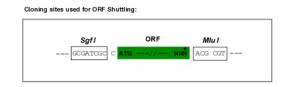
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

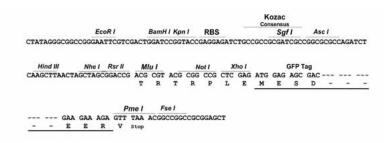
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

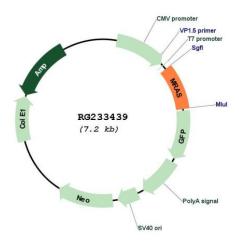


Cloning Scheme:





Plasmid Map:



ACCN: NM_001252090

ORF Size: 624 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 001252090.2

RefSeq Size: 4183 bp RefSeq ORF: 627 bp 22808 Locus ID: **UniProt ID:** O14807 Cytogenetics: 3q22.3

Protein Families: Druggable Genome

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

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

> 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]