

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
Symbol: MRAS
Synonyms: M-RAS; NS11; R-RAS3; RRAS3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233439 representing NM_001252090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAACCAGCGCCGTCGCCAGTGACAACCTCCACACATACAAGCTGGTGGTGGTGGGGATGGGGTG
 TGGGCAAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCTGACTATGACCCACCATTGA
 AGACTCCTACCTGAAACATACGGAGATTGACAATCAATGGCCATCTTGGACGTTCTGGACACAGCTGGG
 CAGGAGGAATTCAGCGCCATGCGGGAGCAATACATGCGCACGGGGGATGGCTTCTCATCGTCTACTCCG
 TCACTGACAAGGCCAGCTTTGAGCACGTGGACCGCTTCCACCAGTTATCCTGCGCGTCAAAGACAGGGA
 GTATTCCCGATGATCCTCGTGGCCAACAAGGTCGATTTGATGCACTTGAGGAAGATCACCAGGGAGCAA
 GGAAAAGAAATGGCGACCAACAATATTCCTGACATAGAAAACAGTGCCAAGGACCCACCTCTCAATG
 TCGACAAAGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATTCGGAAAAAGCCAGAAGAAGAA
 GAAGAAAACCAATGGCGGGGAGACCGGCCACAGGCACCCACAAACTGCAATGTGTGATCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233439 representing NM_001252090
 Red=Cloning site Green=Tags(s)

MATSAVPSDNLPTYKLVVVGDDGGVSKSALTIQFFQKIFVDPDYDPTIEDSYLKHTEIDNQWAILDVLDTAG
 QEEFSAMREQYMRDGDGFLIVYSVTDKASFHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQ
 GKEMATKHNIPIYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKTKWRGDRATGTHKLQCVIL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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

Locus ID: 22808

UniProt ID: [O14807](#)

Cytogenetics: 3q22.3

Protein Families: Druggable Genome

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

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]