

## Product datasheet for **RG231760**

### MRAS (NM\_001252093) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MRAS (NM\_001252093) 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:** >RG231760 representing NM\_001252093  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGGAGCAATACATGCGCACGGGGATGGCTTCCTCATCGTCTACTCCGTCCTGACAAGGCCAGCT  
TTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAGGGAGTCATTCCCGATGATCCT  
CGTGGCCAACAAGGTCGATTTGATGCACCTTGAGGAAGATCACCAGGGAGCAAGGAAAAGAAATGGCGACC  
AAACACAATATTCGTACATAGAAACCAGTGCCAAGGACCCACCTCTCAATGTCGACAAAAGCCTTCCATG  
ACCTCGTTAGAGTAATTAGGCAACAGATTCCGGAAAAAGCCAGAAGAAGAAGAAAACCAAATGGCG  
GGGAGACCGGGCCACAGGCACCCACAACTGCAATGTGTGATCTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231760 representing NM\_001252093  
Red=Cloning site Green=Tags(s)  
MREQYMRTDGDFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQKEMAT  
KHNIPIYIETSAKDPPLNVDKAFHDLVVRVIRQQIPEKSQKKKKTKWRGDRATGTHKLQCVIL

**TRTRPLE** - GFP Tag - V

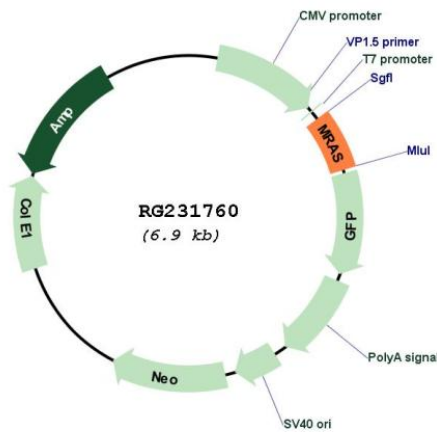
**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**ACCN:** NM\_001252093

**ORF Size:** 396 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001252093.1</a></u> , <u><a href="#">NP_001239022.1</a></u>
<b>RefSeq Size:</b>	3822 bp
<b>RefSeq ORF:</b>	399 bp
<b>Locus ID:</b>	22808
<b>UniProt ID:</b>	<u><a href="#">O14807</a></u>
<b>Cytogenetics:</b>	3q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction
<b>Gene Summary:</b>	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]