

Product datasheet for **RC231759**

MRAS (NM_001252092) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRAS (NM_001252092) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MRAS
Synonyms: M-RAS; NS11; R-RAS3; RRAS3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231759 representing NM_001252092
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGGAGCAATACATGCGCACGGGGATGGCTTCCTCATCGTCTACTCCGTCCTGACAAGGCCAGCT
TTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAGGGAGTCATTCCCGATGATCCT
CGTGGCCAACAAGGTCGATTTGATGCACCTTGAGGAAGATCACCAGGGAGCAAGGAAAAGAAATGGCGACC
AAACACAATATTCGTACATAGAAACCAGTGCCAAGGACCCACCTCTCAATGTCGACAAAGCCTTCCATG
ACCTCGTTAGAGTAATTAGGCAACAGATTCCGGAAAAAGCCAGAAGAAGAAGAAAACCAAAATGGCG
GGGAGACCGGGCCACAGGCACCCACAACTGCAATGTGTGATCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231759 representing NM_001252092
Red=Cloning site Green=Tags(s)

MREQYMRMGDGLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQGKEMAT
KHNIPIYIETSAKDPPLNVDKAFHDLVVRVIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVIL

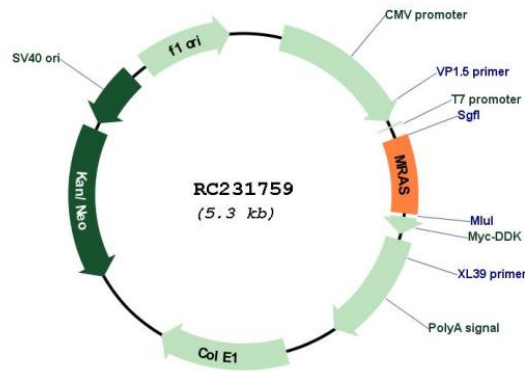
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:

ACCN:

NM_001252092

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](#)

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:	<ol style="list-style-type: none">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_001252092.2
RefSeq Size:	3903 bp
RefSeq ORF:	399 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
MW:	16 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]