

## Product datasheet for **SC332172**

### MRAS (NM\_001252090) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MRAS (NM\_001252090) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MRAS  
**Synonyms:** M-RAS; NS11; R-RAS3; RRAS3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332172 representing NM\_001252090.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGCAACCAGCGCCGTCCCCAGTGACAACCTCCCCACATACAAGCTGGTGGTGGGGGATGGGGGT
GTGGGCAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCTGACTATGACCCACCATT
GAAGACTCCTACCTGAAACATACGGAGATTGACAATCAATGGCCATCTTGGACGTTCTGGACACAGCT
GGGCAGGAGGAATTCAGCGCCATGCGGGAGCAATACATGCGCACGGGGGATGGCTTCCTCATCGTCTAC
TCCGTCCTGACAAGGCCAGCTTTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGAC
AGGGAGTCATTCCCGATGATCCTCGTGGCCAACAAGGTCGATTTGATGCCTTGAGGAAGATCACCAGG
GAGCAAGGAAAAGAAATGGCGACCAACAATATTCCGTACATAGAAACCAAGTCCAAGGCCACCT
CTCAATGTCGACAAAGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATCCCGAAAAAAGCCAG
AAGAAGAAGAAGAAAACCAATGGCGGGGAGACCGGGCCACAGGCACCCAAAACGCAATGTGTGATC
TTGTGA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001252090  
**Insert Size:** 627 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  
**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).



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**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\\_001252090.1](#)

**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

**MW:** 23.8 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]  
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.