

Product datasheet for **SC115494**

MRAS (NM_012219) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRAS (NM_012219) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRAS
Synonyms:	M-RAS; NS11; R-RAS3; RRAS3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_012219 edited
ATGGCAACCAGCGCCGTCCCCAGTGACAACCTCCCCACATACAAGCTGGTGGTGGTGGG
GATGGGGGTGTGGGCAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCT
GACTATGACCCCAACATTGAAGACTCCTACCTGAAACATACGGAGATTGACAATCAATGG
GCCATCTTGACGTTCTGGACACAGCTGGGCAGGAGGAATTCAGCGCCATGCGGGAGCAA
TACATGCGCACGGGGATGGCTTCCTCATCGTCTACTCCGTCCTGACAAGGCCAGCTTT
GAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAGGGAGTCATTCCCG
ATGATCCTCGTGGCCAACAAGGTCGATTTGATGCACTTGAGGAAGATCACCAGGGAGCAA
GGAAAAGAAATGGCGACCAACAATACTCCGTACATAGAAACCAGTGCCAAGGACCCA
CCTCTCAATGTCGACAAAGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATTCCG
GAAAAAGCCAGAAGAAGAAGAAAACCAAATGGCGGGGAGACCGGGCCACAGGCACC
CACAAACTGCAATGTGTGATCTTGTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012219 unedited</p> <pre>GCGAATTCGGCACGAGGGCCGTCACTCCGGCGGCCGCGGGGCCCGGGCGCGACGCTG CCTCCTCACCGGCGCAGGCTAGGAGGGGGCGGCCTGAGTGCCGTAGCCGAGCCGGGGCTG GAGCGCGCGGTCTGACCTACGAGAAACATGGCAACCAGCGCCGTCCCCAGTGACAACCTC CCCACATACAAGCTGGTGGTGGTGGGGATGGGGGTGTGNACAAAACATCCCTCACCATC CACTTTTCTCTCAATACTTTTGTCCATGTTTTGACCTCCCATTGCAAACCTGTACGTG ATACATCAGCTTATTGTCACTACTGCCTTATCTAGCTTACTGCTTACCAATTGCTTC GAGGAATTAACCTCCTTCCAGCATCAATTACCTTTCTCTTTAAACTGTCTTCTAATCGT CCTACTACGGTCTGAAAATTGCAACTTTTAGACATCTTCGACACGTTTCCCAAAGCAAAC CCTGCACCCGCCAATCTCCTGCAGCTACTACCGGTCTGACACATTTACTCCTCTTTGCCT TCTTCTTGTCTTTCATCCACATCACCTGCGCAGCCTTTCTTTTTCATCTCACATCTATC CCTTTCCACTCTGCTTCACTCCACTCTATGTGCCAGTCACCCGATTGTCAACCGTTTCG AAATACCATCCTCGTGAACGCTCTAAACACTTTATCTCCACCATTTGACACAC AATCCCTTATTCAACATCCATATCAACCCTAATGCCGGCCCAACCTCTGTCAACTTT CCTACCCCAACTCCTACCAGAAAATATCCTCCTCCAGCCCAT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012219 unedited</p> <pre>CTAAGGACCGGCGCCGCTCTANGATCGGTTTTTTTTTTTTTTTTTTTTTACGTGTTTCTCT TCTTTATTAATCAGTCGAGAGGAACAAAGACTTAATAAAAAGTTACACAGAAGGTTCAA CATCACTGAGATCTTCAGGCATCACTCGTTTTCACGACAATGGCCACCTGTTAAGACTATG AAACAGAAGCTGGGCGCTCACAGGCGACAATAATTCAAGTATCTTTTATTCCAAGTAAA CCCGACATGGAATTTCAAACACAATGGGCTGCCAATGGAGGGAACCTGTCTGTGGCTCCA GATTTGCTGTAACATGTCTGAGGGGCCTTTGGGTTAAAGTTGCCACGTTAGTGGGTCATG TCTCCTGAAAAGTGAGACAGGCCCCACGAGGCCAGCCAGGCATTTTCCACAGCAAGTGC CATGAGAAGGAGGTGGGCAAAGTCTAAGAGAAACCATCCAGGTGTCCCGAGTGGCAAAG TGCACAGGTAGTAAGTGGCCATTGTCCCGAGCCGTGGGAGTGGAGAGGATGAGTTGGCTT ACCTCCGGATAAAAAAGAGCGCACTTGTGAGGAAGTATCAAAGGGCGGTACAGCCAGAA CCTAGAAAAGGGGAGAAGAGATGACGAGGGGCGATGTCGGGGAGGGGAAGGAAAGGAGGA CGCAGAAAATGGCGGGGAGAAACGGAAGCACCAGTAAATGGAAAGAGAGCGGGCGTACCA TCACAGAGGAAAATAGGGGAGCGGAACTACACGCAAAAAAAGGAGACCAAGTCAACCGG CAAGATATACACAGAGGGCGAAGGCGCACCGAGGCTGCCGCAAGATGCAAAAAGAGGCA AAGAGAGAAACCACCGGAGGCCTATGTTAAGAGAGAAAGGATACAGCGAGTTCCAGACAA GAGAGGTAAGGATAAGAGGGCCAAACATAAGGAAAGGACACAACAGACGGCATAGACAG AAAAGGCAATATAAGCCGACCAGAAATGAGAGAAGTCAAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_012219
Insert Size:	4700 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).

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_012219.2 , NP_036351.2
RefSeq Size:	3926 bp
RefSeq ORF:	627 bp
Locus ID:	22808
UniProt ID:	O14807
Cytogenetics:	3q22.3
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Protein Pathways:	MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same isoform (1).</p>