

Product datasheet for **SC115460**

RRAS2 (NM_012250) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRAS2 (NM_012250) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRAS2
Synonyms:	NS12; TC21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115460 sequence for NM_012250 edited (data generated by NextGen Sequencing)

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ATGGCCGCGGCCGGCTGGCGGGACGGCTCCGGCCAGGAGAAGTACCGGCTCGTGGTGGTC
GGCGGGGCGGCGTGGGCAAGTCGGCGCTCACCATCCAGTTCATCCAGTCCTATTTTGTA
ACGGATTATGATCCAACATTGAAGATTCTTACACAAAGCAGTGTGTGATAGATGACAGA
GCAGCCCGGCTAGATATTTGGATACAGCAGGACAAGAAGAGTTTGGAGCCATGAGAGAA
CAGTATATGAGGACTGGCGAAGGCTTCTGTTGGTCTTTTCAGTCACAGATAGAGGCAGT
TTTGAAGAAATCTATAAGTTTCAAAGACAGATTCTCAGAGTAAAGGATCGTGATGAGTTC
CCAATGATTTTAATTGGTAATAAAGCAGATCTGGATCATCAAAGACAGGTAACACAGGAA
GAAGGACAACAGTTAGCACGGCAGCTTAAGGTAACATACATGGAGGCATCAGCAAAGATT
AGGATGAATGTAGATCAAGCTTTCATGAACTTGTCCGGTTATCAGGAAATTTCAAGAG
CAGGAATGTCCTCCTTACCAGAACCAACACGGAAAGAAAAGACAAGAAAGGCTGCCAT
TGTGTCATTTTCTAG
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Clone variation with respect to NM_012250.5



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012250 unedited ATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCCGCGCTACCG CGCTGACCGGCCCTCCAGACGCCTCCCGGTACCCGGGACCCAGCCCGGCCGCTCGCCCG CAGCCCGCCGGCCGACACAGTCCCGGAGCCGGCCCTAGGGCGGGCGGCAGCGCGGGCTC GGCGCAGTCAGGCTGGGCTCTGTAGCGTCCCATGGCCGCGGCCGGCTGGCGGGACGGCT CCGGCCAGGAGAAGTACCGGCTCGTGGTGGTCGGCGGGGGCGGCTGGGCAAGTCGGCGC TCACCATCCAGTTCATCCAGTCCATTTTTGTAACGGATTATGATCCAACCATTGAAGATT CTTACACAAAGCAGTGTGTGATAGATGACAGAGCAGCCCGCTAGATATTTGGATACAG CAGGACAAGAAGAGTTTGGAGCCATGAGAGAACAGTATATGAGGACTGGCGAAGGCTTCC TGTTGGTCTTTTCAGTCACAGATAGAGGCAGTTTTGAAGAAATCTATAAGTTTCAAAGAC AGATTCTCAGAGTAAAGGATCGTGATGAGTTCCCAATGATTTTAATTGGTAATAAAGCAG ATCTGGATCATCAAAGACAGGTAACACAGGAAGAAGGACAACAGTTAGCACGGCAGCTTA AGGTAACATACATGGAGGCATCAGCAAAGATTAGGATGAATGTAGATCAAGCTTTCCATG AACCTGTCCGGTTATCANGAAATTTCAAGAGCANGAATGTCCTCCTTACCAGAACCAA CACGGAAGAANAAGACAGAANAGGCTGCCATTGTGTCATTNTCTAGAATCCCTTCAGT TTTAGCTACCAACGGCAGNAAAAGCCCTCATCTCTNNTCTCTCCTCAGTTAATNCNNT GTTGGTACTTNTCTAGCCTAGACAAATGATCC
Restriction Sites:	NotI-NotI
ACCN:	NM_012250
Insert Size:	2330 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_012250.3 , NP_036382.2
RefSeq Size:	1510 bp
RefSeq ORF:	615 bp
Locus ID:	22800
UniProt ID:	P62070
Cytogenetics:	11p15.2
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome

Protein Pathways:

MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction

Gene Summary:

This gene encodes a member of the R-Ras subfamily of Ras-like small GTPases. The encoded protein associates with the plasma membrane and may function as a signal transducer. This protein may play an important role in activating signal transduction pathways that control cell proliferation. Mutations in this gene are associated with the growth of certain tumors.

Pseudogenes of this gene are found on chromosomes 1 and 2. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).