

## Product datasheet for **SC328194**

### RRAS2 (NM\_001177315) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRAS2 (NM_001177315) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRAS2
Synonyms:	NS12; TC21
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001177315, the custom clone sequence may differ by one or more nucleotides ATGAGAGAACAGTATATGAGGACTGGCGAAGGCTTCTGTGGTCTTTTCAGTCACAGAT AGAGGCAGTTTTGAAGAAATCTATAAGTTTCAAAGACAGATTCTCAGAGTAAAGGATCGT GATGAGTCCCAATGATTTTAATTGGTAATAAAGCAGATCTGGATCATCAAAGACAGGTA ACACAGGAAGAAGGACAACAGTTAGCACGGCAGCTTAAGGTAACATACATGGAGGCATCA GCAAAGATTAGGATGAATGTAGATCAAGCTTTCCATGAACTTGTCCGGTTATCAGGAAA TTTCAAGAGCAGGAATGTCCTCTTACCAGAACCAACACGGAAAGAAAAAGACAAGAAA GGCTGCCATTGTGCATTTTCTAG
Restriction Sites:	Please inquire
ACCN:	NM_001177315
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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\\_001177315.1](#), [NP\\_001170786.1](#)

**RefSeq Size:** 2186 bp

**RefSeq ORF:** 384 bp

**Locus ID:** 22800

**UniProt ID:** [P62070](#)

**Cytogenetics:** 11p15.2

**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 (4) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Both variants 2 and 4 encode the same isoform (b).