

## Product datasheet for **RC220668**

### RRAS2 (NM\_001102669) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RRAS2 (NM\_001102669) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RRAS2  
**Synonyms:** NS12; TC21  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC220668 representing NM\_001102669  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGAGAGAACAGTATATGAGGACTGGCGAAGGCTTCCTGTTGGTCTTTTCAGTCACAGATAGAGGCAGTT  
 TTGAAGAAATCTATAAGTTTCAAAGACAGATTCTCAGAGTAAAGGATCGTGATGAGTTCCCAATGATTTT  
 AATTGGTAATAAAGCAGATCTGGATCATCAAAGACAGGTAACACAGGAAGAAGGACAACAGTTAGCACGG  
 CAGCTTAAGGTAACATACATGGAGGCATCAGCAAAGATTAGGATGAATGTAGATCAAGCTTTCCATGAAC  
 TTGTCCGGGTTATCAGGAAATTTCAAGAGCAGGAATGTCTCTCTCACCAAGAACACACGAAAGAAAA  
 AGACAAGAAAGGCTGCCATTGTGTCAATTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220668 representing NM\_001102669  
 Red=Cloning site Green=Tags(s)  
 MREQYMRTEGFLVFSVTDRGSFEEIYKFQRQILRVKDRDEFPMILIGNKADLDHQRVTEEGQQLAR  
 QLKVTYMEASAKIRMNVDQAFHELVRVIRKFQEQCPSPEPTRKEKDKKGCHCIVF

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

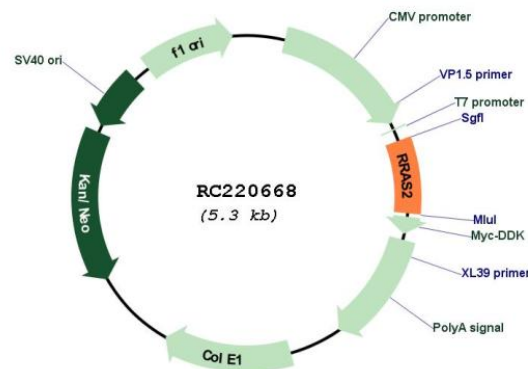
**Restriction Sites:** SgfI-MluI


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001102669

ORF Size: 381 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001102669.2</a> , <a href="#">NP_001096139.1</a>
<b>RefSeq Size:</b>	2209 bp
<b>RefSeq ORF:</b>	384 bp
<b>Locus ID:</b>	22800
<b>UniProt ID:</b>	<a href="#">P62070</a>
<b>Cytogenetics:</b>	11p15.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction
<b>MW:</b>	15.1 kDa
<b>Gene Summary:</b>	<p>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]</p>