

## Product datasheet for **RG204820**

### RRAS (NM\_006270) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRAS (NM_006270) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RRAS
Synonyms:	R-Ras
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204820 representing NM_006270 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAGCGGGCGGCGTCCGGGACAGGGCGGGGGCGGCCCGGGGCGGGGACCTGGGCCCGGGGACC  
CCCCGCCAGCGAGACACAAGCTGGTGGTCTGGGCGGCGGCGGCGTGGGCAAGAGCGCGTGACCAT  
CCAGTTCATCCAGTCCTACTTCGTGTCTGACTACGACCCACTATTGAGGACTCCTACACGAAGATCTGC  
AGTGTGGATGGCATCCCAGCCCGCTGGACATCCTGGACACCGCGGGCCAGGAAGAGTTCGGGGCCATGA  
GAGAGCAGTACATGCGTGTGGCCACGGCTTCTGCTGGTGTTCGCCATTAACGACCGGCAGAGTTTCAA  
CGAGGTGGCAAGCTCTTACGCAGATTCTGCGGGTCAAGGACCGGACGACTTCCCCGTTGTGTTGGTC  
GGGAACAAGGCAGATCTGGAGTACAGCGCCAGGTCCCCGATCAGAAGCCTCTGCCTTCGGCGCCTCCC  
ACCACGTGGCCTACTTTGAGGCCTCGGCCAAACTGCGTCTCAACGTGGACGAGGCTTTTGAGCAGCTGGT  
GCGGGCTGTCCGAAATACCAGGAACAAGAGCTCCCACCGAGCCCTCCCAGTGCCCCAGGAAGAAGGGC  
GGGGGCTGCCCTGCGTCTCTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204820 representing NM\_006270  
 Red=Cloning site Green=Tags(s)

MSSGAASGTGRGRPRGGGPGDPPPSETHKLVVVGGGVGSALTIQFIQSYFVSDYDPTIEDSYTKIC  
 SVDGIPARLDILDTAGQEEFGAMREQYMRAGHGFLLVFAINDRQSFNEVGKLFQTILRVKDRDDFPVVLV  
 GNKADLESQRQVPRSEASAFGASHHVAYFEASAKLRLNVDEAFEQLVRAVRKYQEQLPPSPSPAPRKKK  
 GGCPVLL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006270

**ORF Size:** 654 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_006270.5](#)

**RefSeq Size:** 1017 bp

**RefSeq ORF:** 657 bp

**Locus ID:** 6237

**UniProt ID:** [P10301](#)

**Cytogenetics:** 19q13.33

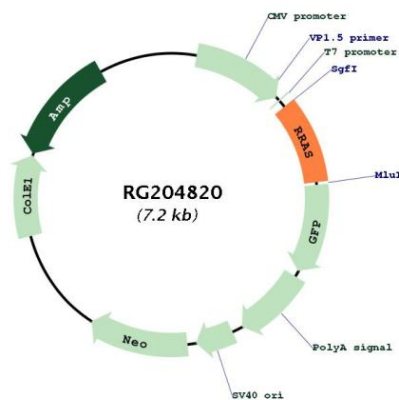
**Domains:** ras, RAN, RAS, RHO, RAB

**Protein Families:** Druggable Genome

**Protein Pathways:** MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction

**Gene Summary:** The protein encoded by this gene is a small GTPase involved in diverse processes including angiogenesis, vascular homeostasis and regeneration, cell adhesion, and neuronal axon guidance. Mutations in this gene are found in many invasive cancers. [provided by RefSeq, Jul 2015]

### Product images:



Circular map for RG204820