

Product datasheet for RC204591

RRAS2 (NM 012250) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RRAS2 (NM_012250) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: RRAS2

Synonyms: NS12; TC21

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC204591 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGAACCAACACGGAAAGAAAAAGACAAGAAAGGCTGCCATTGTGTCATTTTC

AGCGGACCG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204591 protein sequence

Red=Cloning site Green=Tags(s)

MAAAGWRDGSGQEKYRLVVVGGGGVGKSALTIQFIQSYFVTDYDPTIEDSYTKQCVIDDRAARLDILDTA GQEEFGAMREQYMRTGEGFLLVFSVTDRGSFEEIYKFQRQILRVKDRDEFPMILIGNKADLDHQRQVTQE EGQQLARQLKVTYMEASAKIRMNVDQAFHELVRVIRKFQEQECPPSPEPTRKEKDKKGCHCVIF

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

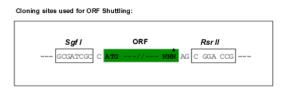
CN: techsupport@origene.cn

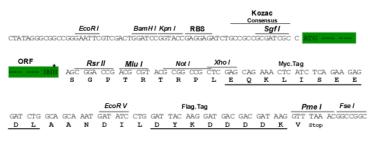
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com Chromatograms: https://cdn.origene.com/chromatograms/mk6615 h05.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_012250

ORF Size: 612 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.

RefSeg: NM 012250.6

RefSeq Size: 2360 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

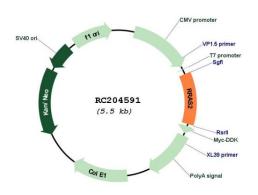
MW: 23.4 kDa

Gene Summary: This gene encodes a member of the R-Ras subfamily of Ras-like small GTPases. The encoded

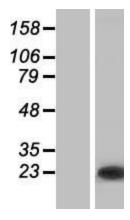
protein associates with the plasma membrane and may function as a signal transducer. This protein may play an important role in activating signal transduction pathways that control cell proliferation. Mutations in this gene are associated with the growth of certain tumors. Pseudogenes of this gene are found on chromosomes 1 and 2. Alternate splicing results in

multiple transcript variants. [provided by RefSeq, Apr 2010]

Product images:

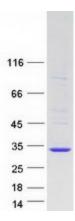


Circular map for RC204591



Western blot validation of overexpression lysate (Cat# [LY415877]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204591 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified RRAS2 protein (Cat# [TP304591]). The protein was produced from HEK293T cells transfected with RRAS2 cDNA clone (Cat# RC204591) using MegaTran 2.0 (Cat# [TT210002]).