

Product datasheet for **RC220169**

RAB40A (NM_080879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB40A (NM_080879) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB40A
Synonyms:	RAR2; RAR2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220169 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGCCCCGGGCAGCCCCGACCAGGCCTATGACTTCCTGCTCAAGTTCCTGCTGGTGGGCGACAGGG
ACGTAGGCAAGAGTGAGATCCTGGAGAGCCTGCAGGATGGTGCAGCTGAGTCCCCGTACAGCCATCTCGG
GGGATCGACTACAAGACGACCACCATCTGCTGGACGGCCAGCGGTGAAGCTGAAGCTCTGGGATACG
TCGGGGCAGGGAAGATTTTGTACCATATCCGCTCCTACTCTCGTGGTGCACAAGGAGTGATCCTGGTCT
ACGACATTGCAAACCGCTGGTCTTTCGAGGGTATGGATCGATGGATTAAGAAGATTGAGGAACATGCCCC
TGGTGTCCCTAAAATCCTGGTGGGAATCGCCTACATCTGGCATTCAAGAGGCAGGTGCCAGGGAGCAG
GCCAGGCCTACGCCGAGCGCCTGGGTGTGACCTTCTTTGAGGTCAGCCCTCTGTGCAATTTCAACATCA
TAGAGTCTTTCACGGAGCTGGCCAGGATAGTGCTGCTGCGGCACAGGATGAATTGGCTCGGGAGGCCGAG
CAAGGTAAGTGTGCAAGACCTCTGCTGCCGACCATCGTGTCTGTCACACCTGTGCACTCTGGTGGAC
AAGTCCCCTCCCCAGTACCTTAAGAAGCCACCTCAAGTCTTCTCCATGGCTAAGGGCCTGAATGCCA
GGATGATGCGAGGCCTCTCCTACTCCCTACCACCAGCTCCACTACAAGAGCAGCCTCTGCAAAGTGGA
GATCGTCTGCCACCCAGAGCCCAACCAAACTGCACCAGAAACAGCTGCAAAATTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220169 protein sequence
 Red=Cloning site Green=Tags(s)

MSAPGSPDQAYDFLLKFLLVGDRDVGKSEILES LQDGAESPYSHLGGIDYKTTTILLDGGQRVKLKLWDT
 SGQGRFCTIFRSYSRGAQGVILVYDIANRWSFEGMDRWIKKIEEHAPGVPKILVGNRLHLAFKRQVPREQ
 AQAYAERLGVTFEVSPLCNFNIIESFTELARIVLLRHRMNWLGRPSKVLSQLDLCCRTIVSCTPVHLVD
 KLPLPSTLRSHLKSFSMAKGLNARMRGLSYSLTTSSTHKSSLCKVEIVCPPQSPPKNCTRNSCKIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6461_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080879

ORF Size: 831 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_080879.3](#)

RefSeq Size: 1354 bp

RefSeq ORF: 834 bp

Locus ID: 142684

UniProt ID: [Q8WXH6](#)

Cytogenetics: Xq22.2

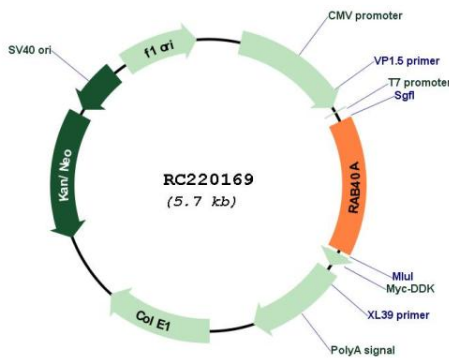
Domains: ras

Protein Families: Druggable Genome

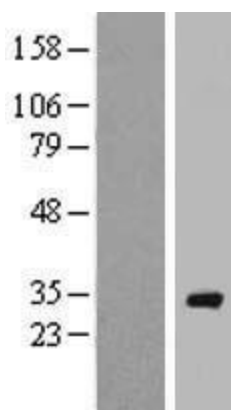
MW: 31.1 kDa

Gene Summary: This gene encodes a member of the Rab40 subfamily of Rab small GTP-binding proteins that contains a C-terminal suppressors of cytokine signaling box. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RC220169



Western blot validation of overexpression lysate (Cat# [LY408996]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220169 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB40A protein (Cat# [TP320169]). The protein was produced from HEK293T cells transfected with RAB40A cDNA clone (Cat# RC220169) using MegaTran 2.0 (Cat# [TT210002]).