OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC236965

RAB3IP (NM_001278402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3IP (NM_001278402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB3IP
Synonyms:	RABIN3; RABIN8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC236965 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAGAGAAGCAAATATCAAGCAGGCAACAGCAGAAAAACAGCTAAAAGAAGCACAAGGAAAAATTG
ATGTACTTCAAGCTGAAGTAGCTGCATTGAAGACACTTGTATTGTCCAGTTCTCCAACATCACCTACGCA
GGAGCCTTTGCCAGGTGGAAAGACACCTTTTAAAAAGGGGCATACAAGAAATAAAAGCACAAGCAGTGCT
ATGAGTGGCAGTCATCAGGACCTCAGTGTGATACAGCCAATTGTAAAAGACTGCAAAGAGGCTGACTTAT
CCTTGTATAATGAATTCCGATTGTGGAAGGATGAGCCCACAATGGACAGGACGTGTCCTTTCTTAGACAA
AATCTACCAGGAAGATATCTTTCCATGTTTAACATTCTCAAAAAGTGAGTTGGCTTCAGCTGTTCTGGAG
GCTGTGGAAAACAATACTCTAAGCATTGAACCAGTGGGATTACAACCTATCCGGTTTGTGAAAGCTTCTG
CAGTTGAATGCGGAGGACCAAAAAAATGTGCTCTCACTGGCCAGAGTAAGTCCTGTAAACACAGAATTAA
ATTAGGGGACTCAAGCAACTATTATTATATTTCTCCTTTTTGCAGATACAGGATCACTTCTGTATGTAAC
TTTTTTACATACATTCGATACATTCAGCAGGGACTCGTGAAACAGCAGGATGTTGATCAGATGTTTTGGG
AGGTTATGCAGTTGAGAAAAGAGATGTCATTGGCAAAGCTGGGTTATTTCAAAGAGGAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC236965 protein sequence
Red=Cloning site Green=Tags(s)

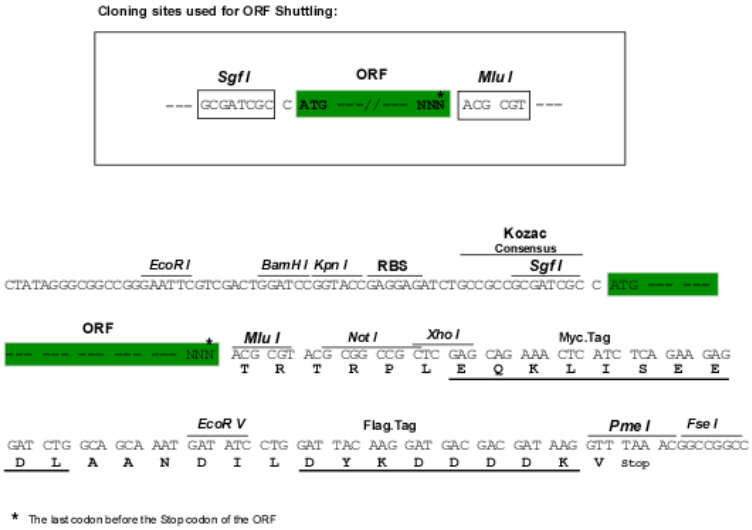
MVREANIKQATAEKQLKEAQGKIDVLQAEVAALKTLVLSSSPTSPTQEPLPGGKTPFKKGHTRNKSTSSA
MSGSHQDLSVIQPIVKDCKEADLSLYNEFRLWKDEPTMDRTCPFLDKIYQEDIFPCLTFSKSELASAVLE
AVENNTLSIEPVGLQPIRFVKASAVECGGPKKCALTGQSKSCKHRIKLGDSSNYYYISPFCRYRITSVCN
FFTYIRYIQQGLVKQQDVDQMFWEVMQLRKEMSLAKLGYFKEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6305_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278402

ORF Size: 762 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_001278402.1, NP_001265331.1

RefSeq Size: 8781 bp

RefSeq ORF: 765 bp

Locus ID: 117177

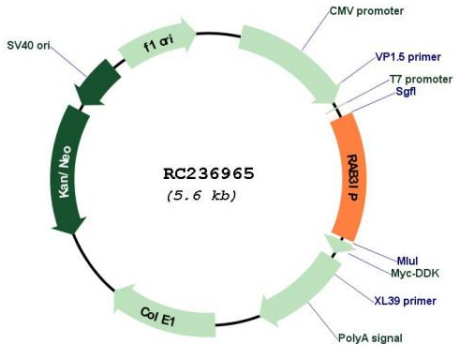
UniProt ID: Q96QF0

Cytogenetics: 12q15

MW: 28.6 kDa

Gene Summary: Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5. Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface. Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC236965