

Product datasheet for **RC224499**

RABEP1 (NM_001083585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABEP1 (NM_001083585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RABEP1
Synonyms:	RAB5EP; RABPT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224499 representing NM_001083585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGCGGGCCCGCTTCCAGCCTGACGTTTCTTTCAGCAACGGGTAGCAGAATTGAAAAAA
 TTAATGCAGAATTTTACGTGCACAACAGCAGCTTGAACAAGAATTTAATCAAAAGAGAGCAAAATTTAA
 GGAGTTATATTTGGCTAAAGAGGAGGATCTGAAGAGGCAAAATGCAGTATTACAAGCTGCACAAGATGAT
 TTGGGACACCTTGAACCCAGCTGTGGGAACTCAAGCAGAGATGGAGAATTAAGGCGATTGCCACAG
 TCTCTGAGAACACCAAGCAAGAAGCTATAGATGAAGTAAAAGACAGTGGAGAGAAGAAGTTGCTTCACT
 TCAGGCTGTTATGAAAGAAACAGTTCGTGACTATGAGCACCAGTCCACCTTAGGCTGGAGCAGGAGCGA
 ACACAGTGGGCACAGTATAGAGAATCCGCAGAGAGGAAATAGCTGATTTAAGAAGAAGGCTGTCTGAAG
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 AGAATTGCATGAAGTTTGCCATCTCTGGAGCAAGAGCGCAACAACACAACCAAGTAAAACATACGTGG
 CAGAAGGCCAATGACCAGTTTCTGGAACTCAGCGTTTACTGATGAGAGACATGCAGCGAATGGAGATTG
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 AAGACTCAATAAGAGAAAGGATCACAAAAAGCAGATGTTGAGGAAGAAATAAAATACCAAGTGTGTGT
 GCTTTAACTCAAGAAGAATCTTCAGCCCAGTTATCAAATGAAGAGGAGCATTAGACAGCACCCCGTGGCT
 CAGTTTCACTTCTAGATGCAGGCTTGTGTTGCCATCTGGAGATCCTTTTCAGTAAATCGGACAATGCAT
 GTTTAAAGATGGACTCAGGAGAGCACAGTCTACAGACAGCTTGGGAACCTCGGGCTCATTGCAATCCAAA
 GCTTTAGGCTATAACTACAAAGCAAAATCTGCTGGAACCTGGACGAGTCAAGTTTTGGACCACTGGTAG
 GAGCAGATTCACTGTCTGAGAACTTTGATACTGCATCCCTTGGGTCACTCCAGATGCCAAGTGGGTTTAT
 GTTAACCAAGATCAGGAAAGAGCAATCAAGGCGATGACACCAGAACAAGAAGAGACAGCGTCCCTCCTC
 TCCAGCGTTACCCAGGGCATGGAGAGTGCCTATGTGTCCCTAGTGGTTATCGTTTAGTTAGTGAACAG
 AATGGAATCTCTGCAGAAAGAGGTACATAATGCTGGAATAAACTTGGTAGACGTTGTGATATGTGTT
 CAATTACGAAAAACAGTTACAAGGAATTCAGATTCAGGAGGCTGAAACGAGAGACCAGGTAAAAAACTA
 CAGCTGATGCTAAGGCAAGCTAATGACCAGTTAGAGAAGACAATGAAAGATAAGCAGGAGCTGGAAGACT
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 GATCTTACTTGAAGAGTTACAGCAGGGGCTTTCCAGGCAAGAGGGATGTTTCAGGAACAGATGGCGGTG
 CTGATGCAGTACCGGAAACAGGTTTCAGAAGAGCTGGTGAAGTTACAGAAAGATAATGACAGTCTCCAGG
 GAAAGCACAGCCTGCATGTGTCATTACAGCAAGCAGAAGACTTCACTCCAGACACTACAGAGGCACT
 GCGGGAGTTGGTATTAATAACCGTGAGGACATCATTAAATGTGCGGACAGCAGCAGACCAGTAGAAGAA
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 ATTAGAAAGAATAAAAGTGGAAAAAGGACAGGCTACCGTTGAACAATAATGTTTGAAGAGAAGAATAAA
 GCTCAGAGATTACAGACAGAATTAGATGTCAGTGAAGCAAGTCCAGAGGGATTTTGTAAAGCTTTACAGA
 CCCTTCAGGTGCAGTTAGAGCGGATCCGGCAAGCTGACTCCTTGGAGAGAATCCGGGCAATTCTGAATGA
 TACTAACTGACAGACATTAACCAGCTTCTGAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224499 representing NM_001083585
 Red=Cloning site Green=Tags(s)

MAQPGPASQPDVSLQQRVAELEKINAFLRAQQLEQEFNQKRAKFKELYLAKEEDLKRQNAVLQAAQDD
 LGHLRTQLWEAQAEMENIKAIATVSENTKQEAIDEVKRQWREEVASLQAVMKETVRDYEHQFHLRLEQER
 TQWAQYRESAEREIADLRRRLSEGQEEENLENEMKKAQEDAELRSVVMPEKEIAALKDKL TEAEDKIK
 ELEASKVKELNHYLEAEKSCRTDLEMYAVLNTQKSVLQEDAELRKELHEVCHLLEQERQQHNQLKHTW
 QKANDQFLESQRLLMRDMQRMELVLTSEQLRQVEELKKKQEDDEQRLNKRKDHKKADVVEEIKIPVVC
 ALTQEESSAQLSNEEEHLDSTRGSVHSLDAGLLLP SGDPF SKSDNMF KDGLRRAQSTDSLGTSGSLQSK
 ALGYNKYAKSAGNLDESDFGPLVGADSVSENFDTASLGSLQMP SGFMLTKDQERAIKAMTPEQEETASLL
 SSVTQGMESAYVSPSGYRLVSETEWNLQKEVHNAGNKLGRRCMCSNYEKQLGGIQIEAETRDQVKKL
 QLMRQANDQLEKTMKDKQELEDFIKQSSSEDSSHQISALV LRAQASEILLEELQQGLSQAKRDVQEQMAV
 LMQSREQVSEELVRLQKDNDSLQKGHSLHVSLQQAEDFILPDTTEALRELVLKYREDIINVRTAADHVEE
 KLLKAEILFLKEIQAEQCLKENLEETLQLEIENCKEEIASISLKAELERIKVEKGQATVEQLMFEEKNK
 AQRLQTELDVSEQVQRDFVKLSQTLQVQLERIRQADSLERIRAILNDTKLTDINQLPET

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001083585

ORF Size: 2487 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_001083585.3](#)

RefSeq Size: 5322 bp

RefSeq ORF: 2490 bp

Locus ID: 9135

UniProt ID: [Q15276](#)

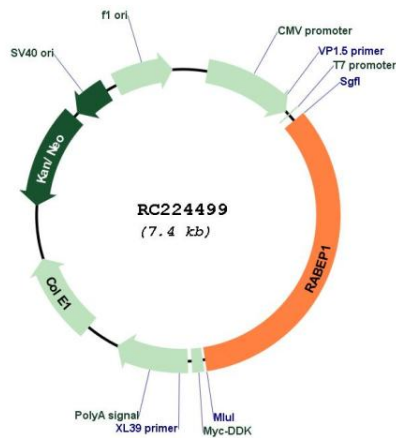
Cytogenetics: 17p13.2

Protein Pathways: Endocytosis

MW: 95.3 kDa

Gene Summary: Rab effector protein acting as linker between gamma-adaptin, RAB4A and RAB5A. Involved in endocytic membrane fusion and membrane trafficking of recycling endosomes. Involved in KCNH1 channels trafficking to and from the cell membrane (PubMed:22841712). Stimulates RABGEF1 mediated nucleotide exchange on RAB5A. Mediates the traffic of PKD1:PKD2 complex from the endoplasmic reticulum through the Golgi to the cilium (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224499