

Product datasheet for **RG224499**

RABEP1 (NM_001083585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABEP1 (NM_001083585) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RABEP1
Synonyms:	RAB5EP; RABPT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224499 representing NM_001083585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGCGGGCCCGCTTCCAGCCTGACGTTTCTTTCAGCAACGGGTAGCAGAATTGAAAAAA
 TTAATGCAGAATTTTACGTGCACAACAGCAGCTTGAACAAGAATTTAATCAAAAGAGAGCAAAATTTAA
 GGAGTTATATTTGGCTAAAGAGGAGGATCTGAAGAGGCAAAATGCAGTATTACAAGCTGCACAAGATGAT
 TTGGGACACCTTCGAACCCAGCTGTGGGAACTCAAGCAGAGATGGAGAATATTAAGCGATTGCCACAG
 TCTCTGAGAACACCAAGCAAGAAGCTATAGATGAAGTAAAAGACAGTGGAGAGAAGAAGTTGCTTCACT
 TCAGGCTGTTATGAAAGAAACAGTTCGTGACTATGAGCACCAGTCCACCTTAGGCTGGAGCAGGAGCGA
 ACACAGTGGGCACAGTATAGAGAATCCGCAGAGAGGAAATAGCTGATTTAAGAAGAAGGCTGTCTGAAG
 GTCAAGAGGAGGAAAATTTAGAAAATGAAATGAAAAAGGCCCAAGAGGATGCTGAGAAAATTCGGTCCGT
 TGTGATGCCAATGAAAAGGAAATTCAGCTTTGAAGGATAAACTGACAGAGGCTGAAGCAAAAATTA
 GAGCTGGAGGCCCTCAAAGGTTAAAGAACTGAATCATTATCTGGAAGCTGAGAAAATCTGTAGGACTGATC
 TAGAGATGTATGTAGCTGTTTTGAATACTCAGAAATCTGTTCTACAGGAAGATGCTGAGAAAATCGCGAA
 AGAATTGCATGAAGTTTGCCATCTCTGGAGCAAGAGCGCAACAACACAACCAAGTAAAACATACGTGG
 CAGAAGGCCAATGACCAGTTTCTGGAACTCAGCGTTTACTGATGAGAGACATGCAGCGAATGGAGATTG
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 AAGACTCAATAAGAGAAAGGATCACAAAAAGCAGATGTTGAGGAAGAAATAAAAATACCAAGTGTGTGT
 GCTTTAACTCAAGAAGAATCTTCAGCCCAGTTATCAAATGAAGAGGAGCATTAGACAGCACCCCGTGGCT
 CAGTTCAATTCCTTAGATGCAGGCTTGTGTTGCCATCTGGAGATCCTTTTCAGTAAATCGGACAATGACAT
 GTTTAAAGATGGACTCAGGAGAGCACAGTCTACAGACAGCTTGGGAACCTCGGGCTCATTGCAATCCAAA
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 GTTAACCAAGATCAGGAAAGAGCAATCAAGGCGATGACACCAGAACAAGAAGAGACAGCGTCCCTCCTC
 TCCAGCGTTACCCAGGGCATGGAGAGTGCCTATGTGTCCCTAGTGGTTATCGTTTAGTTAGTGAACAG
 AATGGAATCTCTGCAGAAAGAGGTACATAATGCTGGAATAAACTTGGTAGACGTTGTGATATGTGTT
 CAATTACGAAAAACAGTTACAAGGAATTCAGATTCAGGAGGCTGAAACGAGAGACCAGGTAAAAAACTA
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 GATCTTACTTGAAGAGTTACAGCAGGGGCTTTCCAGGCAAGAGGGATGTTTCAGGAACAGATGGCGGTG
 CTGATGCAGTCACGGGAACAGGTTTCAGAAGAGCTGGTGAAGTTACAGAAAGATAATGACAGTCTCCAGG
 GAAAGCACAGCCTGCATGTGTCATTACAGCAAGCAGAAGACTTCACTCCAGACACTACAGAGGCACT
 GCGGGAGTTGGTATTAATAACCGTGAGGACATCATTAAATGTGCGGACAGCAGCAGACCAGTGAAGAA
 AAGCTGAAGGCTGAGATACTTTTCTAAAAGAGCAGATCCAAGCAGAACAGTGTTTAAAAGAAAATCTTG
 AAGAACTCTGCAACTAGAAATAGAAAAGTGAAGGAGGAAATAGCTTCTATTTCTAGCCTAAAAGCTGA
 ATTAGAAAAGATAAAAAGTGGAAAAAGGACAGGCTACCGTTGAACAATAATGTTTGAAGAGAAGAAATAAA
 GCTCAGAGATTACAGACAGAATTAGATGTCAGTGAAGCAAGTCCAGAGGGATTTTGTAAAAGCTTTCACAGA
 CCCTTCAGGTGCAGTTAGAGCGGATCCGGCAAGCTGACTCCTTGGAGAGAATCCGGGCAATTCTGAATGA
 TACTAACTGACAGACATTAACCAGCTTCTGAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224499 representing NM_001083585
Red=Cloning site Green=Tags(s)

MAQPGPASQPDVSLQQRVAELEKINAFLRAQQLEQEFNQKRAKFKELYLAKEEDLKRQNAVLQAAQDD
LGHLRTQLWEAQAEMENIKAIATVSENTKQEAIDEVKRQWREEVASLQAVMKETVRDYEHQFHLRLEQER
TQWAQYRESAEREIADLRRRLSEGQEEENLENEMKKAQEDAELRSVVMPEKEIAALKDKL TEAEDKIK
ELEASKVKELNHYLEAEKSCRTDLEMYAVLNTQKSVLQEDAELRKELHEVCHLLEQERQQHNQLKHTW
QKANDQFLESQRLLMRDMQRMELVLTSEQLRQVEELKKKQEDDEQQRLNKRKDHKKADVVEEIKIPVVC
ALTQEESSAQLSNEEEHLDSTRGSVHSLDAGLLLP SGDPF SKSDNMF KDGLRRAQSTDSLGTSGSLQSK
ALGYNKYAKSAGNLDESDFGPLVGADSVSENFDTASLGSLQMP SGFMLTKDQERAIKAMTPEQEETASLL
SSVTQGMESAYVSPSGYRLVSETEWNLQKEVHNAGNKLGRRCMCSNYEKQLGGIQIEAETRDQVKKL
QLMLRQANDQLEKTMKDKQELEDFIKQSSSEDSSHQISALV LRAQASEILLEELQQGLSQAKRDVQEQMAV
LMQSREQVSEELVRLQKDNDSLQGKSHLVSLQQAEDFILPDTTEALRELVLKYREDIINVRTAADHVEE
KLKAEILFLKEIQAEQCLKENLEETLQLEIENCKEEIASISSLKAELERIKVEKGQATVEQLMFEEKNK
AQRLQTELDVSEQVQRDFVKLSQTLQVQLERIRQADSLERIRAILNDTKLTDINQLPET

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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

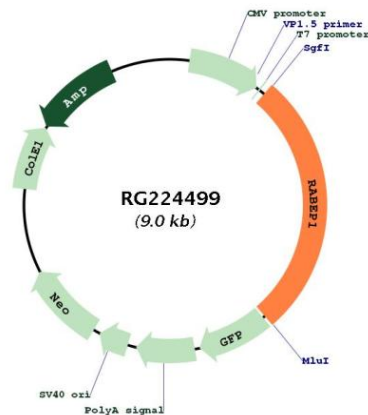
UniProt ID: [Q15276](#)

Cytogenetics: 17p13.2

Protein Pathways: Endocytosis

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 RG224499