

Product datasheet for **RG236428**

RABEP1 (NM_001291582) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RABEP1 (NM_001291582) 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)
ORF Nucleotide Sequence: >RG236428 representing NM_001291582.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCAGCCGGGCCCGGCTTCCAGCCTGACGTTTCTCTTCAGCAACGGGTAGCAGAATTGAAAAA
ATTAATGCAGAATTTTACGTGCACAACAGCAGCTTGAACAAGAATTTAATCAAAAGAGAGCAAAATTT
AAGGAGTTATATTTGGCTAAAGAGGAGGATCTGAAGAGGCAAAATGCAGTATTACAAGCTGCACAAGAT
GATTTGGGACACCTTGAACCCAGCTGTGGGAAGCTCAAGCAGAGATGGAGAATATTAAGGCGATTGCC
ACAGTCTCTGAGAACACCAAGCAAGAAGCTATAGATGAAGTAAAAGACAGTGGAGAGAAGAAGTTGCT
TCACTTCAGGCTGTTATGAAAGAAACAGTTCGTGACTATGAGCACCAGTCCACCTTAGGCTGGAGCAG
GAGCGAACACAGTGGGCACAGTATAGAGAATCCGCAGAGAGGGAAATAGCTGATTTAAGAAGAAGGCTG
TCTGAAGGTCAAGAGGAGGAAAAATTTAGAAAATGAAATGAAAAGGATCCCATCCAGGATACCATATTG
CATTTAGTTGTGTCTCTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

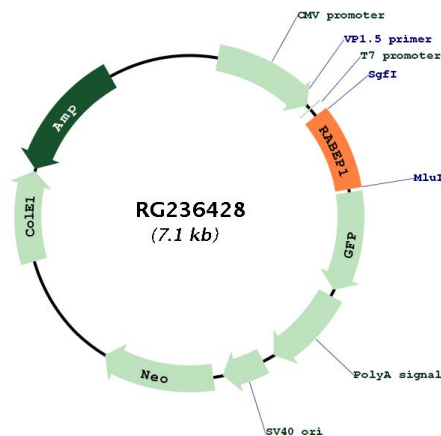
Protein Sequence: >Peptide sequence encoded by RG236428
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAQPGPASQPDVSLQQRVAELEKINAFLRAQQQLQEFNQKRAKFKELYLAKEEDLKRQNAVLQAAQD
DLGHLRQLWEAQAMENIKAIATVSENTKQEAIDEVKRQWREEVASLQAVMKETVRDYEYHQFHLRLEQ
ERTQWAQYRESAEREIADLRRRLSEGQEEENLENEMKKDPIQDTILHLVSP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001291582

ORF Size: 570 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).

RefSeq: [NM_001291582.2](#)

RefSeq Size: 972 bp

RefSeq ORF: 573 bp

Locus ID: 9135

Cytogenetics: 17p13.2

Protein Pathways: Endocytosis

MW: 22.8 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]