

Product datasheet for **SC334322**

RABEP1 (NM_001291582) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABEP1 (NM_001291582) Human Untagged Clone
Tag:	Tag Free
Symbol:	RABEP1
Synonyms:	RAB5EP; RABPT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001291582, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCAGCCGGGCCCGCTTCCAGCCTGACGTTTCTCTTCAGCAACGGGTAGCAGAATTGGAAAAA  
TTAATGCAGAATTTTACGTGCACAACAGCAGCTTGAACAAGAATTTAATCAAAAGAGAGCAAAATTTAA  
GGATTATATTTGGCTAAAGAGGAGGATCTGAAGAGGCAAAATGCAGTATTACAAGCTGCACAAGATGAT  
TTGGGACACCTTCGAACCCAGCTGTGGGAAGCTCAAGCAGAGATGGAGAATTAAGGCGATTGCCACAG  
TCTCTGAGAACCAAGCAAGAAGCTATAGATGAAGTAAAAGACAGTGGAGAGAAGAAGTTGCTTCACT  
TCAGGCTGTTATGAAAGAAACAGTTCGTGACTATGAGCACCAGTCCACCTTAGGCTGGAGCAGGAGCGA  
ACACAGTGGGCACAGTATAGAGAATCCGCAGAGAGGAAATAGCTGATTTAAGAAGAAGGCTGTCTGAAG  
GTCAAGAGGAGGAAAATTTAGAAAATGAAATGAAAAGGATCCCATCCAGGATACCATATTGCATTTAGT  
TGTGTCTCCTTAG
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001291582
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001291582.1](#), [NP_001278511.1](#)

RefSeq Size: 972 bp

RefSeq ORF: 573 bp

Locus ID: 9135

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]

Transcript Variant: This variant (4) lacks several 3' exons but contains an alternate 3' terminal exon, and it thus differs in its 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4) has a distinct C-terminus and is significantly shorter than isoform 1.