

Product datasheet for **MR231129**

Rabep1 (NM_001291143) Mouse Tagged ORF Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | Rabep1 (NM_001291143) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rabep1 |
| Synonyms: | Rab5ep; rabaptin-5; rabaptin-5alpha |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide
Sequence:

>MR231129 representing NM_001291143
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGAACATTAAGGCAATTGCCACAGTCTCTGAGAATACTAAGCAAGAAGCTATAGATGAAGTTAAAA
GGCAATGGAGAGAAGAAGTTGCTTCACTTCAGGCTATAATGAAAGAGACAGTCCGTGACTATGAGCATCA
GTTTCACCTGAGGCTGGAGCAGGAGCGAGCACAGTGGGCACAGTATCGAGAATCTGCAGAGCGGAAATA
GCTGACTTAAGAAGAAGGTTGTCTGAAGGTCAAGAGGAAGAAAATTTAGAAAATGAAATGAAAAAGGCC
AAGAGGATGCTGAAAAGCTTCGTTCTGTCTGTGATGCCATGGAGAAGGAAATTCAGCTCTGAAAGATA
ACTGACAGAAGCTGAAGACAAGATTAAGAGCTGGAGGCCTCAAAGGTTAAGGAGCTGAATCATTATCTG
GAGGCCGAGAAGTCTTGCAGGACTGACCTGGAGATGTACGTAGCTGTTTTGAACACTCAGAAATCTGTGC
TACAGGAAGATGCTGAGAAATGAGGAAAGAACTGCATGAAGTTGCCATCTCTTGAACAAGAACGACA
ACAACACAACCAGTTAAGCATACATGGCAGAAGGCCAACGACCAGTTTCTGGAATCTCAGCGTTTGCTG
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AGAAGAAGTAAAAATACCAGTAGTGTGTCTTAACTCAAGAAGAATCTCAACCCATTATCAAATGAA
GAGGAGCATTTAGACAGCACCCATGGGTGAGTCCATTCCTGGATGCAGACTTGATGTTACCATCTGGAG
ATCCATTTAGTAAATCGGACAATGACATGTTTAAAGATGGACTCAGGAGAGCTCAGTCTACAGACAGCTT
GGGAACCTCAAGCTCATTGCAATCCAAAGCTTTAGGCTATAACTACAAGCGAAATCTGCTGAAATTTG
GATGAGTCGGATTTTGGACCACTGGTTGGAGCAGATTCTGTCTGAGAACTTTGATACTGTGTCCTTG
GGTCACTGCAGATGCCAAGTGGATTTATGTTAACCAAGATCAAGAAAGAGCAATTAAGGCAATGACACC
TGAGCAGGAGGAGACAGCATCCCTCCTCCTCAGTGTACCCAGGGTATGGAGAGTGCATATGTATCTCCC
AGTGGTTACCGCTTAGTGAGTGAGACGGAATGGAATCTCCTGCAGAAAGAGGTACATAATGCTGGAATA
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CACTTGTTTTAAAGAGCCCAAGCCTCTGAGGTCTTACTTGAAGGTTACAACAGAGCTTTTCCAAGCAA
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GTTGGAGAGGATCCGGCAAGCAGACTCCTTGGAGAGGATCCGGGCTATTCTGAATGATACCAAACGACA
GACATTAACAGCTCCCTGAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231129 representing NM_001291143
 Red=Cloning site Green=Tags(s)

MENIKAIATVSENTKQEAIDEVKRWREEVASLQAIMKETVRDYEHQFHLRLEQERAQWAQYRESAEREI
 ADLRRRLSEGQEEENLENEMKKAQEDAELKRSVMPMEKEIAALKDKL TEADKIKELEASKVKELNHYL
 EAEKSCRTDLEMYVAVLNTQKSVLQEDAELRKELHEVCHLLEQERQQHNQLKHTWQKANDQFLESQRL
 MRDMQRMEIVL TSEQLRQVEELKKKQDEEDEQQRVNRKRDNKKTDEEEVKIPVVCAL TQEESSPLSNE
 EEHL DSTHGSVHSLDADLMLPSGDPF SKSDNDMFKDGLRRAQSTDSLGTSSSLQSKALGYNYKAKSAGNL
 DESDFGPLV GADSVSENFDTVSLGSLQMPSGFMLTKDQERA IKAMTPEQEETASLLSSVTQGMESAYVSP
 SGYRLVSETWNLLQKEVHNAGNKLGRRCMCSNYEKQLQGIQIQEAETRDQVKKLQLMLRQANDQLEKT
 MKEKQELDFLKQSAEDSSHQISALV LRAQASEV LLEELQQSF SQAQRDVQE QMAVLMQSREQVSEELVR
 LQKDNDSLQGKHS LHVSLQLAEDF ILPDTVEV LRELVLKYRENI VHVRTAADHMEEKLKAELFLKEQIQ
 AEQCLKENLEETLQLEIENCKEEIASISLKAELERIKVEKGQLESTLREKSQQLES LQEMKVNLEEQLK
 KETA AKATVEQLMFEENKAQRLQTEL DVSEQVQRDFVKLSQTLQVQLERIRQADSLERIRAILNDTKLT
 DINQLPET

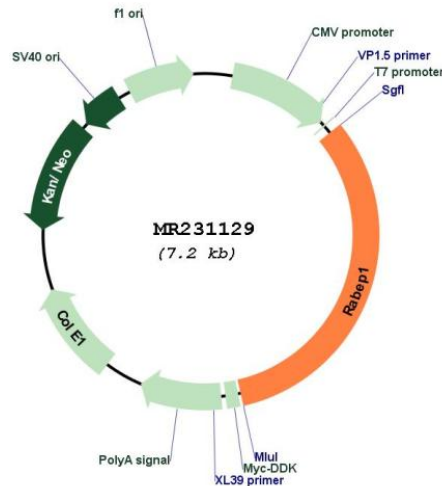
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001291143

ORF Size: 2334 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_001291143.1](#), [NP_001278072.1](#)

RefSeq Size: 5511 bp

RefSeq ORF: 2337 bp

Locus ID: 54189

UniProt ID: [O35551](#)

Cytogenetics: 11 43.21 cM

MW: 90.3 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. Stimulates RABGEF1 mediated nucleotide exchange on RAB5A. Mediates the traffic of PKD1:PKD2 complex from the endoplasmic reticulum through the Golgi to the cilium (PubMed:25405894).[UniProtKB/Swiss-Prot Function]