

## Product datasheet for **MC228918**

### **Rabep1 (NM\_001291143) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC228918 representing NM\_001291143  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAACATTAAGCCAATTGCCACAGTCTCTGAGAATACTAAGCAAGAAGCTATAGATGAAGTTAAAA  
 GGCAATGGAGAGAAGAAGTTGCTTCACTTCAGGCTATAAATGAAAGAGACAGTCCGTGACTATGAGCATCA  
 GTTTCACCTGAGGCTGGAGCAGGAGCGAGCACAGTGGGCACAGTATCGAGAATCTGCAGAGCGGAAATA  
 GCTGACTTAAGAAGAAGGTTGTCTGAAGGTCAAGAGGAAGAAAATTTAGAAAATGAAATGAAAAAGGCC  
 AAGAGGATGCTGAAAAGCTTCGTTCTGTCGTGATGCCATGGAGAAGGAAATTCAGCTCTGAAAGATAA  
 ACTGACAGAAGCTGAAGACAAGATTAAGAGCTGGAGGCCTCAAAGGTTAAGGAGCTGAATCATTATCTG  
 GAGGCCGAGAAGTCTGCAGGACTGACCTGGAGATGTACGTAGCTGTTTTGAACACTCAGAAATCTGTGC  
 TACAGGAAGATGCTGAGAAATGAGGAAAGAACTGCATGAAGTTGCCATCTCTTGAACAAGAACGACA  
 ACAACACAACCAGTTAAGCATACATGGCAGAAGGCCAACGACCAGTTTCTGGAATCTCAGCGTTTGCTG  
 ATGAGAGACATGCAGAGAATGGAGATTGTGTTAACTTCGGAACAGCTCCGACAAGTTGAAGAACTAAAGA  
 AGAAAGACCAGGAGGAGGATGAACAACAAGGGTCAATAAGAGAAAAGATAACAAGAAAACAGATACCGA  
 AGAAGAAGTAAAAATACCAAGTAGTGTGTCTTAACTCAAGAAGAATCTCAACCCATTATCAAATGAA  
 GAGGAGCATTTAGACAGCACCCATGGGTGAGTCCATTCTTGGATGCAGACTTGATGTTACCATCTGGAG  
 ATCCATTTAGTAAATCGGACAATGACATGTTTAAAGATGGACTCAGGAGAGCTCAGTCTACAGACAGCTT  
 GGGAACTCAAGCTCATTGCAATCCAAAGCTTTAGGCTATAACTACAAGCGAAATCTGCTGAAATTTG  
 GATGAGTCGGATTTGGACCACTGGTTGGAGCAGATTCTGTCTGAGAACTTTGATACTGTGTCCTTGG  
 GGTCACTGCAGATGCCAAGTGGATTTATGTTAACCAGGATCAAGAAAGAGCAATTAAGGCAATGACACC  
 TGAGCAGGAGGAGACAGCATCCCTCCTCAGTGTACCCAGGGTATGGAGAGTGCATATGTATCTCCC  
 AGTGGTTACCGCTTAGTGAGTGAGACGGAATGGAATCTCCTGCAGAAAGGGTACATAATGCTGGAATA  
 AGCTTGGTAGACGTTGTGATATGTGTTCCAATTGAAAAACAGTTACAAGGAATTCAGATTCAGGAAGC  
 TGAAACAAGAGACCAGGTGAAAAAAGTGCAGTTAATGCTCAGGCAAGCTAATGACCAGCTTGAGAAGACG  
 ATGAAAGAGAAGCAGGAGCTGGAGGACTTCTCAAGCAGAGTCCGGAGGACTCAAGCCACCAGATATCTG  
 CACTTGTTTTAAAGAGCCCAAGCCTGAGGTCTTACTTGAAGAGTTACAACAGAGCTTTTCCAAGCAA  
 GAGGGACGTTTCAAGAGCAGATGGCGGTGCTGATGCAGTCAAGTGAACAGGTTTCAAGAGAGTTGGTGAGG  
 TTACAGAAAGACAACGACAGCCTCCAGGGGAAGCAGCTTGATGTGTCATTACAGCTAGCAGAAGACT  
 TCATTCTCCAGACACTGTGGAGGTGCTCCGGGAAGTGGTTTTAAATATCGTGAGAACATTGTTTCATGT  
 GCGCACAGCAGCAGACCACATGGAAGAGAAGCTGAAGGCGGAAATACTTTTCTAAAAGAGCAAATTCAA  
 GCGGAACAGTGTTTAAAAGAAAACCTGGAAGAGACACTACAGCTGGAATAGAAAAGTCAAGGAGGAAA  
 TAGCTTCCATTTCTAGTCTAAAAGCTGAATTAGAAAGAAATAAGGTTGAAAAGGGACAGTTGGAATCTAC  
 ATTAAGAGAGAAGTCGCAACAACCTGAGAGTCTCCAAGAAATGAAAGTTAATTTAGAGGAACAGTTAAAG  
 AAAGAACTGCTGCTAAGGCTACTGTTGAACAGCTCATGTTTGAAGAGAAGAACAAGCTCAGAGGTTGC  
 AGACAGAATTAGATGTCAGTGAACAAGTACAGAGAGATTTGTAACACTTCTCAGACTCTCAGGTGCA  
 GTTGGAGAGGATCCGGCAAGCAGACTCCTTGGAGAGGATCCGGGCTATTCTGAATGATACCAACTGACA  
 GACATTAACCAGCTCCCTGAGACATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001291143  
**Insert Size:** 2337 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001291143.1</a></u> , <u><a href="#">NP_001278072.1</a></u>
<b>RefSeq Size:</b>	5511 bp
<b>RefSeq ORF:</b>	2337 bp
<b>Locus ID:</b>	54189
<b>UniProt ID:</b>	<u><a href="#">O35551</a></u>
<b>Cytogenetics:</b>	11 43.21 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in its 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>