

## 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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAACATTAAGCCAATTGCCACAGTCTCTGAGAATACTAAGCAAGAAGCTATAGATGAAGTTAAAA  
 GGCAATGGAGAGAAGAAGTTGCTTCACTTCAGGCTATAAATGAAAGAGACAGTCCGTGACTATGAGCATCA  
 GTTTCACCTGAGGCTGGAGCAGGAGCGAGCACAGTGGGCACAGTATCGAGAATCTGCAGAGCGGAAATA  
 GCTGACTTAAGAAGAAGGTTGTCTGAAGGTCAAGAGGAAGAAAATTTAGAAAATGAAATGAAAAAGGCC  
 AAGAGGATGCTGAAAAGCTTCGTTCTGTCGTGATGCCATGGAGAAGGAAATTCAGCTCTGAAAGATAA  
 ACTGACAGAAGCTGAAGACAAGATTAAGAGCTGGAGGCCTCAAAGGTTAAGGAGCTGAATCATTATCTG  
 GAGGCCGAGAAGTCTGCAGGACTGACCTGGAGATGTACGTAGCTGTTTTGAACACTCAGAAATCTGTGC  
 TACAGGAAGATGCTGAGAAATTGAGGAAAGAACTGCATGAAGTTTGCCATCTCTTGAACAAGAACGACA  
 ACAACACAACCAGTTAAGCATACATGGCAGAAGGCCAACGACCAGTTTCTGGAATCTCAGCGTTTGCTG  
 ATGAGAGACATGCAGAGAATGGAGATTGTGTTAACTTCGGAACAGCTCCGACAAGTTGAAGAACTAAAGA  
 AGAAAGACCAGGAGGAGGATGAACAACAAGGGTCAATAAGAGAAAAGATAACAAGAAAACAGATACCGA  
 AGAAGAAGTAAAAATACCAAGTAGTGTGTCTTAACTCAAGAAGAATCTCAACCCATTATCAAATGAA  
 GAGGAGCATTTAGACAGCACCCATGGGTGAGTCCATTCTTGGATGCAGACTTGATGTTACCATCTGGAG  
 ATCCATTTAGTAAATCGGACAATGACATGTTTAAAGATGGACTCAGGAGAGCTCAGTCTACAGACAGCTT  
 GGGAACTCAAGCTCATTGCAATCCAAAGCTTTAGGCTATAACTACAAGCGAAATCTGCTGAAATTTG  
 GATGAGTCGGATTTGGACCACTGGTTGGAGCAGATTCTGTCTGAGAAGTTTGATACTGTGTCCCTTG  
 GGTCACTGCAGATGCCAAGTGGATTTATGTTAACCAGATCAAGAAAGAGCAATTAAGGCAATGACAC  
 TGAGCAGGAGGAGACAGCATCCCTCCTCAGTGTACCCAGGGTATGGAGAGTGCATATGTATCTCCC  
 AGTGGTTACCGCTTAGTGAGTGAGACGGAATGGAATCTCCTGCAGAAAGAGGTACATAATGCTGGAATA  
 AGCTTGGTAGACGTTGTGATATGTGTTCCAATTGAAAAACAGTTACAAGGAATTCAGATTCAGGAAGC  
 TGAAACAAGAGACCAGGTGAAAAACTGCAGTTAATGCTCAGGCAAGCTAATGACCAGCTTGAGAAGACG  
 ATGAAAGAGAAGCAGGAGCTGGAGGACTTCTCAAGCAGAGTCCGGAGGACTCAAGCCACCAGATATCTG  
 CACTTGTTTTAAAGAGCCCAAGCCTGAGGTCTTACTTGAAGAGTTACAACAGAGCTTTTCCAAGCAA  
 GAGGGACGTTTCAAGAGCAGATGGCGGTGCTGATGCAGTACGTGAACAGGTTTCAAGAGAGTTGGTGAGG  
 TTACAGAAAGACAACGACAGCCTCCAGGGGAAGCAGCTTGATGTGTCATTACAGCTAGCAGAAGACT  
 TCATTCTCCAGACACTGTGGAGGTGCTCCGGGAAGTGGTTTTAAATATCGTGAGAACATTGTTTCATGT  
 GCGCACAGCAGCAGACCACATGGAAGAGAAGCTGAAGGCGGAAATACTTTTCTAAAAGAGCAAATTCAA  
 GCGGAACAGTGTTTAAAAGAAAACCTGGAAGAGACACTACAGCTGGAATAGAAAAGTCAAGGAGGAAA  
 TAGCTTCCATTTCTAGTCTAAAAGCTGAATTAGAAAGAAATAAGGTTGAAAAGGGACAGTTGGAATCTAC  
 ATTAAGAGAGAAGTCGCAACAACCTGAGAGTCTCCAAGAAATGAAAGTTAATTTAGAGGAACAGTTAAAG  
 AAAGAAACTGCTGCTAAGGCTACTGTTGAACAGCTCATGTTTGAAGAGAAGAACAAGCTCAGAGGTTGC  
 AGACAGAATTAGATGTCAGTGAACAAGTACAGAGAGATTTGTAAGAACTTCTCAGACTCTCAGGTGCA  
 GTTGGAGAGGATCCGGCAAGCAGACTCCTTGGAGAGGATCCGGGCTATTCTGAATGATACCAACTGACA  
 GACATTAACCAGCTCCCTGAGACATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**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>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>