

Product datasheet for **MC228998**

Rabep1 (NM_001291141) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rabep1 (NM_001291141) 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: >MC228998 representing NM_001291141
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCGGGCCCGCTCCCAGCCTGACGAGGATCTGAAGAGGCAAAATGCAGTATTGCAAGCTG
 CACAGGACGATTTGGGTACCTTCGACACAGCTGTGGGAGGCTCAGGCAGAGATGGAGAACATTAAGGC
 AATTGCCACAGTCTCTGAGAATACTAAGCAAGAAGCTATAGATGAAGTTAAAAGGCAATGGAGAGAAGAA
 GTTGCTTCACTTCAGGCTATAATGAAAGAGACAGTCCGTGACTATGAGCATCAGTTTCACCTGAGGCTGG
 AGCAGGAGCGAGCACAGTGGGCACAGTATCGAGAATCTGCAGAGCGGAAATAGCTGACTTAAGAAGAAG
 GTTGTCTGAAGGTCAAGAGGAAGAAAATTTAGAAAATGAAATGAAAAAGGCCAAGAGGATGCTGAAAAG
 CTTGTTCTGTCGTGATGCCCATGGAGAAGGAAATTCAGCTCTGAAAGATAAACTGACAGAAGCTGAAG
 ACAAGATTAAGAGCTGGAGGCCTCAAAGTTAAGGAGCTGAATCATTATCTGGAGGCCGAGAAGTCTTG
 CAGGACTGACCTGGAGATGTACGTAGCTGTTTTGAACACTCAGAAATCTGTGCTACAGGAAGATGCTGAG
 AAATTGAGGAAAAGACTGCATGAAGTTTCCCATCTCTTGAACAAGAACGACAACAACACACCAGTTAA
 AGCATACATGGCAGAAGGCCAACGACCAGTTTCTGGAATCTCAGCGTTTCTGATGAGAGACATGCAGAG
 AATGGAGATTGTGTTAACTTCGGAACAGCTCCGACAAGTTGAAGAATAAAGAAGAAAGACCAGGAGGAG
 GATGAACAACAAAGGGTCAATAAGAGAAAAGATAACAAGAAAACAGATACCGAAGAAGAAGTAAAAATAC
 CAGTAGTGTGTGCTTTAACTCAAGAAGAATCTTCAACCCATTATCAAATGAAGAGGAGCATTTAGACAG
 CACCCATGGGTCACTCCATTCTTGGATGCAGACTTGATGTTACCATCTGGAGATCCATTAGTAAATCG
 GACAATGACATGTTTAAAGATGGACTCAGGAGAGCTCAGTCTACAGACAGCTTGGGAACCTCAAGCTCAT
 TGCAATCCAAGCTTTAGGCTATAACTACAAGCGAAAATCTGCTGGAAAATTTGGATGAGTCGGATTTTGG
 ACCACTGGTTGGAGCAGATTCTGTGCTGAGAACTTTGATACTGTGCCCTTGGGTCAGTGCAGATGCCA
 AGTGGATTTATGTTAACCAGATCAAGAAAGAGCAATTAAGGCAATGACACCTGAGCAGGAGGAGACAG
 CATCCCTCTCCAGTGTACCCAGGGTATGGAGAGTGCATATGTATCTCCAGTGTTACCGCTTAGT
 GAGTGAGACGGAATGGAATCTCTGCAGAAAGAGGTACATAATGCTGGAATAAGCTTGGTAGAGCTTGT
 GATATGTGTTCCAATTATGAAAAACAGTTACAAGGAATTCAGATTCAGGAAGCTGAAACAAGAGACCAGG
 TGAAAAAAGTGCAGTTAATGCTCAGGCAAGCTAATGACCAGCTTGAAGAAGCGATGAAAGAGAAGCAGGA
 GCTGGAGGACTTCTCAAGCAGAGTCCGGAGGACTCAAGCCACCAGATATCTGCAGTGTGTTTAAAGGCC
 CAAGCCTCTGAGGCTTACTTGAAGAGTTACAACAGAGCTTTTCCAAGCAAAGAGGGACGTTTCAGGAGC
 AGATGGCGGTGCTGATGCAGTCACTGAAACAGGTTTCAGAAGAGTTGGTGAGTTACAGAAAGACAACGA
 CAGCCTCCAGGGGAAGCACAGCTTGCATGTGTCATTACAGCTAGCAGAAGACTTCATTCTCCAGACACT
 GTGGAGGTGCTCCGGAACTGGTTTTAAAATATCGTGAGAACATTGTTTATGTGCGCACAGCAGCAGACC
 ACATGGAAGAGAAGCTGAAGCGGAAAATACTTTTCTAAAAGAGCAAATTCAGCGGAACAGTGTTTAAA
 AGAAAACCTGGAAGAGACACTACAGCTGGAAAATAGAAAAGTCAAGGAGGAAATAGCTTCCATTTCTAGT
 CTAAGAGCTGAATTAGAAAAGATAAAGGTTGAAAAGGGACAGTTGGAATCTACATTAAGAGAGAAGTCGC
 AACACTTGAGAGTCTCCAAGAAATGAAAGTTAATTTAGAGGAACAGTTAAAGAAAAGAACTGCTGCTAA
 GGCTACTGTTGAACAGCTCATGTTTGAAGAGAAGAACAAGCTCAGAGGTTGCAGACAGAATTAGATGTC
 AGTGAACAAGTACAGAGAGATTTTGTAAAATTTCTCAGACTCTCAGGTGCAGTTGGAGAGGATCCGGC
 AAGCAGACTCCTTGGAGAGGATCCGGGCTATTCTGAATGATACCAAACTGACAGACATTAACCAGCTCCC
 TGAGACATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001291141
Insert Size: 2460 bp

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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001291141.1</u> , <u>NP_001278070.1</u>
RefSeq Size:	5311 bp
RefSeq ORF:	2460 bp
Locus ID:	54189
UniProt ID:	<u>O35551</u>
Cytogenetics:	11 43.21 cM
Gene Summary:	<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 (2) lacks an exon in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.</p>