

## Product datasheet for **MR217501**

### **Rabep1 (NM\_019400) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rabep1 (NM_019400) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR217501 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCAGCGGGCCCGCTCCCAGCCTGACGTTTCTTTCAGCAACGGGTAGCAGAATTGGAAAAA  
 TTAATGCAGAATTTTACGTGCACAGCAGCAGCTTGAGCAAGAATTTAATCAAAAGAGAGCAAAATTTAA  
 GGAGCTCTATTTGGCTAAAGAGGAGGATCTGAAGAGGCAAAATGCAGTATTGCAAGCTGCACAGGACGAT  
 TTGGGTACCTTCGGACACAGCTGTGGGAGGCTCAGGCAGAGATGGAGAACATTAAGGCAATTGCCACAG  
 TCTCTGAGAATACTAAGCAAGAAGCTATAGATGAAGTTAAAAGGCAATGGAGAGAAGAAGTTGCTTCACT  
 TCAGGCTATAATGAAAGAGACAGTCCGTGACTATGAGCATCAGTTTACCTGAGGCTGGAGCAGGAGCGA  
 GCACAGTGGGCACAGTATCGAGAATCTGCAGAGCGGAAATAGCTGACTTAAGAAGAAGTTGTCTGAAG  
 GTCAAGAGGAAGAAAATTTAGAAAATGAAATGAAAAGGCCCAAGAGGATGCTGAAAAGCTTCGTTCTGT  
 CGTGATGCCCATGGAGAAGGAAATTCAGCTCTGAAAAGATAAAGTACAGAGCTGAAGACAAGATTTAA  
 GAGCTGGAGGCCCTCAAAGGTTAAGGAGCTGAATCATTATCTGGAGGCCGAGAAGTCTTGACAGACTGACC  
 TGGAGATGTACGTAGCTGTTTTGAACACTCAGAAATCTGTGCTACAGGAAGATGCTGAGAAATTGAGGAA  
 AGAACTGCATGAAGTTTGCCATCTCTTGGAACAAGAACGCAACAACACAACCAAGTTAAAGCATACATGG  
 CAGAAGGCCAACGACCAAGTTTCTGGAACTCAGCGTTTGTGATGAGAGACATGCAGAGAATGGAGATTG  
 TGTTAACTTCGGAACAGCTCCGACAAGTTGAAGAACTAAAGAAGAAAGACCAGGAGGAGGATGAACAACA  
 AAGGGTCAATAAGAGAAAAGATAACAAGAAAACAGATACCGAAGAAGAAGTAAAAATACCAAGTAGTGTGT  
 GCTTTAACTCAAGAAGAATCTTCAACCCATTATCAAATGAAGAGGAGCATTAGACAGCACCCATGGGT  
 CAGTCCATTCTTGGATGCAGACTTGATGTTACCATCTGGAGATCCATTTAGTAACTCGGACAATGACAT  
 GTTTAAAGATGGACTCAGGAGAGCTCAGTCTACAGACAGCTTGGGAACCTCAAGCTCATTGCAATCCAAA  
 GCTTTAGGCTATAACTACAAAGCGAAATCTGCTGGAAATTTGGATGAGTCGGATTTTGGACCACTGGTTG  
 GAGCAGATTCTGTGTCTGAGAACTTTGATACTGTGCCCTTGGGTCACTGCAGATGCCAAGTGGATTTAT  
 GTTAACCAAGATCAAGAAAGAGCAATTAAGGCAATGACACCTGAGCAGGAGGAGACAGCATCCCTCCTC  
 TCCAGTGTCAACCCAGGATGGAGAGTGCATATGTATCTCCAGTGGTTACCGCTTAGTGAGTGAGACGG  
 AATGGAATCTCCTGCAGAAAGAGGTACATAATGCTGGAATAAGCTTGGTAGACGTTGTGATATGTGTT  
 CAATTATGAAAAACAGTTACAAGGAATTCAGATTCAGGAAGCTGAAACAAGAGACCAGGTGAAAAACTG  
 CAGTTAATGCTCAGGCAAGCTAATGACCAGCTTGAGAAGACGATGAAAGAGAAGCAGGAGCTGGAGGACT  
 TCCTCAAGCAGAGTGGGAGGACTCAAGCCACCAGATATCTGCACTTGTTTTAAGAGCCCAAGCCTCTGA  
 GGTCTTACTTGAAGAGTTACAACAGAGCTTTTCCCAAGCAAGAGGGACGTTTCAGGAGCAGATGGCGGTG  
 CTGATGCAGTCACGTGAACAGGTTTCAGAAGAGTTGGTGAAGTTACAGAAAGACAACGACAGCCTCCAGG  
 GGAAGCACAGCTTGCAATGTGTCATTACAGCTAGCAGAAGACTTCATTCTCCAGACACTGTGGAGGTGCT  
 CCGGAACTGGTTTTAAATATCGTGAGAACATTGTTTCATGTGCGCACAGCAGCAGACCACATGGAAGAG  
 AAGCTGAAGGCGGAAATACTTTTCTAAAAGAGCAAATTAAGCGGAACAGTGTTTAAAAGAAAACCTGG  
 AAGAGACTACAGCTGGAATAGAAAAGTGAAGGAGGAAATAGTCTAGCTTCCATTTCTAGTCTAAA  
 AGCTGAATTAGAAAGAATAAAGGTTGAAAAGGGACAGTTGGAATCTACATTAAGAGAGAAGTCCCAACAA  
 CTTGAGAGTCTCCAAGAAATGAAAGTTAATTTAGAGGAACAGTTAAAGAAAGAAAAGTCTGCTAAGGCTA  
 CTGTTGAACAGCTCATGTTTGAAGAGAAGAAAGCTCAGAGGTTGCAGACAGAATTAGATGTCAGTGA  
 ACAAGTACAGAGAGATTTTGTAAAATTTCTCAGACTCTCAGGTGCAAGTTGGAGAGGATCCGGCAAGCA  
 GACTCCTTGGAGAGGATCCGGGCTATTCTGAATGATACCAAACTGACAGACATTAACCAGCTCCCTGAGA  
 CA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217501 protein sequence  
 Red=Cloning site Green=Tags(s)

MAQPGPAPQPDVSLQQRVAELEKINAFLRAQQLEQEFNQKRAKFKELYLAKEDLKRQNAVLQAAQDD  
 LGHLRTQLWEAQAEMENIKAIATVSENTKQEAIDEVKRQWREEVASLQAIMKETVRDYEHQFHLRLEQER  
 AQWAQYRESAEREIADLRRRLSEGQEEENLENEMKKAQEDAELKRSVVMPMEKEIAALKDKLTEAEDKIK  
 ELEASKVKELNHYLEAEKSCRDTLEMYVAVLNTQKSVLQEDAELRKELHEVCHLLEQERQQHNQLKHTW  
 QKANDQFLESQRLLMRDMQRMELVLTSEQLRQVEELKKKQDEEQQRVNKRKDNKKTDTTEEEVKIPVVC  
 ALTQEESSTPLSNEEHLDDSTHGSVHSLDADLMLPSGDPFSKSDNMFKDGLRRAQSTDSLGTSSSLQSK  
 ALGYNKYAKSAGNLDESDFGPLVGADSVSENFDTVSLGSLQMPSGFMLTKDQERAIKAMTPEQEETASLL  
 SSVTQGMESAYVSPSGYRLVSETEWNLLQKEVHNAGNKLGRRCMCSNYEKQLGGIQIQEAETRDQVKKL  
 QMLRQANDQLEKTMKEQLEDFLKQSAEDSSHQISALVLRQASEVLEELQQSFSAKRDVQEQMAV  
 LMQSREQVSEELVRLQKDNDSLQKGHSLHVSLLAEDFILPDTVEVLRVLYKRENIHVHRTAADHMEE  
 KLKAEILFLKEQIQAEQCLKENLEETLQLEIENCKEEIVLASISSLKAELERIKVEKGQLESTLREKSQQ  
 LESLQEMKVNLEEQKKETAATAKATVEQLMFEENKAQRLQTELDVSEQVQRDFVKLSQTLQVQLERIRQA  
 DSLERIRAILNDTKLTDINQLPET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

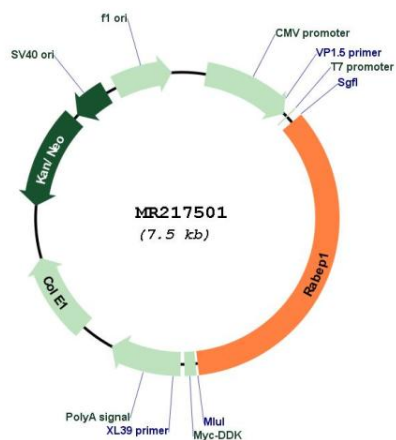
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_019400
<b>ORF Size:</b>	2595 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_019400.1</a> , <a href="#">NM_019400.2</a> , <a href="#">NM_019400.3</a> , <a href="#">NP_062273.2</a>
<b>RefSeq Size:</b>	5440 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	54189
<b>UniProt ID:</b>	<a href="#">O35551</a>
<b>Cytogenetics:</b>	11 43.21 cM
<b>MW:</b>	99.7 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR217501