

Product datasheet for **SC127274**

RABEP1 (NM_004703) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABEP1 (NM_004703) Human Untagged Clone
Tag:	Tag Free
Symbol:	RABEP1
Synonyms:	RAB5EP; RABPT5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004703, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCAGCCGGGCCCGCTTCCAGCCTGACGTTTCTCTTCAGCAACGGGTAGCAGAATTGGAAAAA
TTAATGCAGAATTTTACGTGCACAACAGCAGCTTGAACAAGAATTTAATCAAAAGAGAGCAAAATTTAA
GGAGTTATATTTGGCTAAAGAGGAGGATCTGAAGAGGCAAAATGCAGTATTACAAGCTGCACAAGATGAT
TTGGGACACCTTCGAACCCAGCTGTGGGAAGCTCAAGCAGAGATGGAGAATATTAAGGCGATTGCCACAG
TCTCTGAGAACCAAGCAAGAAGCTATAGATGAAGTGAAGAGACAGTGGAGAGAAGAAGTTGCTTCACT
TCAGGCTGTTATGAAAGAAAAGTTCGTGACTATGAGCACCAGTTCACCTTAGGCTGGAGCAGGAGCGA
ACACAGTGGGCACAGTATAGAGAATCCGCAGAGAGGAAATAGCTGATTTAAGAAGAAGGCTGTCTGAAG
GTCAAGAGGAGGAAAAATTTAGAAAATGAAATGAAAAAGGCCCAAGAGGATGCTGAGAAAATTCGGTCCGT
TGTGATGCCAATGAAAAGGAAATTCAGCTTTGAAGGATAAACTGACAGAGGCTGAAGACAAAATTTAA
GAGCTGGAGGCCCTCAAAGTTAAGAAGTGAATCATTATCTGGAAGCTGAGAAAATCTTGTAGGACTGATC
TAGAGATGTATGTAGCTGTTTTGAATACTCAGAAATCTGTTCTACAGGAAGATGCTGAGAAAATGCCGAA
AGAATTGCATGAAGTTTGCATCTCTGGAGCAAGAGCGACAACAACACAACCAGTTAAACATACGTGG
CAGAAGGCCAATGACCAGTTTCTGGAATCTCAGCGTTTACTGATGAGAGACATGCAGCGAATGGAGATTG
TGCTAACTTCAGAACAGCTCCGACAAGTTGAAGAACTGAAGAAGAAAGATCAGGAGGATGATGAACAACA
AAGACTCAATAAGAGAAAGGATCACAAGAAAGCAGATGTTGAGGAAGAAATAAAAATACCAGTAGTGTGT
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CAGTTCATTCTTAGATGCAGGCTTGTGTTGCCATCTGGAGATCCTTTCAGTAAATCGGACAATGACAT
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GCTTTAGGCTATAACTACAAAGCAAAATCTGCTGGAAACCTGGACGAGTCAAGTTTGGACCACCTGGTAG
GAGCAGATTCAGTGTCTGAGAACCTTGTACTGTCATCCCTTGGGTCCTCAGATGCCAAGTGGGTTTAT
GTTAACCAAGATCAGGAAAGAGCAATCAAGGCGATGACACCAGAACAAGAAGAGACAGCGTCCCTCCTC
TCCAGCGTTACCCAGGGCATGGAGAGTGCCATGTGTCCCTAGTGGTTATCGTTTTAGTTAGTGAACAG
AATGGAATCTCTTGCAAGAGGTTACATAATGCTGGAATAAACTTGGTAGACGTTGTGATATGTGTTT
CAATTACGAAAAACAGTTACAAGGAATTCAGATTCAGGAGGCTGAAACGAGAGACCAGGTGAAAAACTA
CAGCTGATGCTAAGGCAAGCTAATGACCAGTTAGAGAAGACAATGAAAGATAAGCAGGAGCTGGAAGACT
TCATAAAGCAAAGCAGCGAAGATTCGAGTACCAGATCTCTGCACTCGTCTAAGAGCCCAGGCCTCCGA
GATCTTACTTGAAGAGTTACAGCAGGGGCTTCCAGGCAAAGAGGGATGTTGAGAACAGATGGCGGTG
CTGATGCAGTACGGGAACAGGTTTCAGAAGAGCTGGTGAGGTTACAGAAAGATAATGACAGTCTCCAGG
GAAAGCACAGCCTGCATGTGTCATTACAGCAAGCAGAAGACTTCACTCCAGACACTACAGAGGCACT
GCGGGAGTTGGTATTTAAATACCAGTGGAGCATCATTAAATGTGCGGACAGCAGCAGACCAGTAGAAGAA
AAGCTGAAGGCTGAGATACTTTTCTAAAAGAGCAGATCCAAGCAGAACAGTGTTTAAAAGAAAATCTTG
AAGAACTCTGCAACTAGAAATAGAAAAGTGAAGGAGGAAATAGCTTCTATTTCTAGCCTAAAAGCTGA
ATTAGAAAAGAAATAAAAGTGGAAAAGGACAGTTGGAGTCCACATTAAGAGAGAAGTCTCAACAGCTTGAG
AGTCTTCAGGAAATAAAGATCAGTTTGAAGAGCAGTTAAGAAAAGAGACTGCTGCTAAGGCTACCGTTG
ACAACATAATGTTTGAAGAGAAGAATAAAGCTCAGAGATTACAGACAGAATTAGATGTCAGTGAAGCAAG
CCAGAGGGATTTTGTAAAGCTTTCACAGACCCTTCAGGTGCAGTTAGAGCGGATCCGGCAAGCTGACTCC
TTGGAGAGAATCCGGCAATTCTGAATGATACTAAACTGACAGACATTAACCAGTTCCTGAGACATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004703 unedited</p> <pre>TTGTAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGGCTCCCCGAGGCCGG CCGCTGGTCAATGGCGCAGCCGGGCCCGCTTCCCAGCCTGACGTTTCTTTCAGCAACG GGTAGCAGAATTGGAAAAATTAATGCAGAATTTTACGTGCACAACAGCAGCTTGAACA AGAATTTAATCAAAGAGAGCAAAATTTAAGGAGTTATATTTGGCTAAAGAGGAGGATCT GAAGAGGCAAAATGCAGTATTACAAGCTGCACAAGATGATTTGGACACCTTCGAACCCA GCTGTGGGAAGCTCAAGCAGAGATGGAGAATATTAAGGCGATTGCCACAGTCTCTGAGAA CACCAAGCAAGAAGCTATAGATGAAGTGAAGAGACAGTGGAGAGAAGAAGTTGCTTCACT TCAGGCTGTTATGAAAGAAACAGTTCGTGACTATGAGCACCAGTTCACCTTATGCTGGA GCAGGAGCGAACACAGTGGGCACAGTATAGAGAATCCGCAGAGAGGGAAATAGCTGATTT AAGAAGAAGGCTGTCTGAAGGTCAAGAGGAGGAAAATTTAGAAAATGAAATGAANAAGGC CCAAGAGGATGCTGNAGAACTTCGGTCCCCTTGTGATGCCAATGGGANAGGAAAATTGCA GCTTTGAAGGAAAACTGACAGGAGGCTGAGACAAATTAAGAGCTGGAGGCCTCAAAGG TAANGAACTGATCATTATCTGGAGCTGAGAAAATCTTGTAGACTGATCTANAGATGNATG TANCTGTTTTGATACTCAAATTTCTGCTTAAGGAAAAGCTGAAAAGTGGCAAAGATTG CTTGAGAGCGACACCCCAACCCGTTTAACTTCTTGCAAAGGGCATGACCATTTTGAAT CTTNCGTTCTGGGAAAACTGCCGAAGGGGATGGGCCACTTAA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004703 unedited</p> <pre>GCCGCACTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACTATTTCCATAATTGGTATTTA TTTTTAAATTCATAATCATGAATGCAAGACTACAATAATAACCCAAGAGATGAGGTATGT AGTACTTATCATTGTCCATGGAAGACAGAAGTACAGAAGATCTTAGGGTAAGTCCAT AGTGACCTCATTATAACAAAGACAATCACTTTAAGTTGATGGTGGCGTTATGTGAACA AAACAATCTACCTAGTTCACCTAACCTCCCAGAAGGCTCTTTCAGGTACCCTGCTGTATGC AACCAGTCTCAAAAATGATTTGAAAACCATCTTACTTTTGAACCTCCTGGATGATGAATC CATCCACTGGATATTCTGGGACAGTACTCTCAGCAGGTATTGATGAACATGAATCAATT CTTTGTGCTTTCTGTAGCACTTCATAAAGTTATGGCAAAGACCTGTTTCACTGAGGCTTT CTTCACACAGGAAAGGAATCTAATGCTTGTAATAAGTACAAAGACAGATTTCCAATTCTAAC TAAGTGGCTTTCCATAAGCATTGTCACTTACTTACATTCCAGGTCTGAATTCAAAAGAAA AATACAAAGTATCTGTCAACCTAGTTACCATTGTTGATTTGACACATTTGAAACAAGTA GTACGTAAGCCTAATGATCCAAGTTGAAAAATTAGCCTATTTAAAAACGTATACTAATGT TTTTCACTGATCCCATANCTAGACTAAAACACTTCAAAGAGTAGATGGTACCAGTTCGG GCTTATCCTGGTACCTGTGGNCCATGAGATCATCTAAGTATGCAGAAAAAGGGCTTNC AAGTGTCTAGAGCTTTNCCTTAACCNTTCACTNCAGTTATATAGCCCCAGCCAAGTTTCA GACCCNATCATTAACTTATGAATGGNNTGCNTGCAAGNCCTATGGTCTCAGGAAGN TCAGAGCACTTAGGCCTCAAGCAGATAAGGGAAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004703
Insert Size:	4000 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).
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.
RefSeq:	NM_004703.3 , NP_004694.2
RefSeq Size:	5394 bp
RefSeq ORF:	2589 bp
Locus ID:	9135
UniProt ID:	Q15276
Cytogenetics:	17p13.2
Domains:	Rabaptin
Protein Pathways:	Endocytosis
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 (PubMed:22841712). Stimulates RABGEF1 mediated nucleotide exchange on RAB5A. Mediates the traffic of PKD1:PKD2 complex from the endoplasmic reticulum through the Golgi to the cilium (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>