

Product datasheet for **SC112519**

RAB3IP (NM_022456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3IP (NM_022456) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB3IP
Synonyms:	RABIN3; RABIN8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112519 sequence for NM_022456 edited (data generated by NextGen Sequencing)

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ATGGCTAATGATCCCTTGAAGGCTTCCATGAAGTAAACCTTGCTTCACCTACTTCTCCG
GACCTTCTGGTGTGATGAATCAGGAACCAAGAGCAGACTACCTCACCAAGTGTATC
TACCGCCACACCCTTCAAGCTTATCCTCTGTACCTATCCAGGCAAAATGCATTAGATGTT
TCTGAACCTTCTACACAACCCGTGATTATCAGAGCCAGCCCTTGCTCTACCTCTGGAGTCACAGCT
TCTAGTATCAGCTTTCATGTTACAGAGCCAGCCCTTGCTCTACCTCTGGAGTCACAGCT
GGATTAACATAAATTAACATAAGAAAGGACAACATAATGCAGAGAGAGAGTTTTTACAG
GGTGCTACTATAACAGAGGCTTGCAGTGGCAGTGATGATATTTTTGGGTTGAGTACTGAT
AGTCTGTCTCGTTTACGAAGCCCATCTGTTTTGGAAGTTAGAGAAAAGGGCTATGAACGA
TTAAAAGAAGAACTCGCAAAAGCTCAGAGGGAACGAAGTTAAAAGATGAAGAATGTGAG
AGGCTTTCAAAAGTGGCAGATCAACTTGGACAGGAATTGGAAGAAGTACAGCTAGTCTA
TTTGAGGAAGCTCATAAAATGGTGAGAGAAGCAAATATCAAGCAGGCAACAGCAGAAAAA
CAGCTAAAAGAAGCACAAAGAAAAATTGATGTACTTCAAGCTGAAGTAGCTGCATTGAAG
ACACTTGTATTGTCCAGTCTCCAACATCACCTACGCAGGAGCCTTGGCCAGGTGGAAG
ACACCTTTTAAAAGGGGCATACAAGAAATAAAAGCACAAAGCAGTGCTATGAGTGGCAGT
CATCAGGACCTCAGTGTGATACAGCCAATTGTAAGAACTGCAAAAGAGGCTGACTTATCC
TTGTATAATGAATCCGATTGTGGAAGGATGAGCCCAATGGACAGGACGTGTCCTTTC
TTAGACAAAATCTACCAGGAAGATATCTTCCATGTTTAACTTCTAAAAAGTGAAGTTG
GCTTCAGCTGTTCTGGAGGCTGTGGAACAATACTCTAAGCATTGAACCAAGTGGGATTA
CAACCTATCCGGTTTGTGAAAGCTTCTGCAGTTGAATGCGGAGGACCAAAAAAATGTGCT
CTCAGTGGCCAGAGTAAGTCTGTAAACACAGAATTAATAGGGGACTCAAGCAACTAT
TATTATATTTCTCTTTTTGCAGATACAGGATCACTTCTGTATGTAACCTTTTTTACATAC
ATTTCGATACATTACAGAGGACTCGTGAACAGCAGGATGTTGATCAGATGTTTTGGGAG
GTTATGCAGTTGAGAAAAGAGATGTCATTGGCAAAGCTGGGTTATTTCAAAGAGGAACT
TGA
    
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Clone variation with respect to NM_022456.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_022456 unedited

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TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTCGTGCCGAATTC
GGCACGAGGGCGTAGTGAGCCCGCCGCGTGGAGTGTAGCGGAGAGGGCTCGCCGTCTC
CTCCGTTTCTCGCTGCTTCGGGACGCGCTCTCTGCGGCTCTGTGAGCGCCCTGAGCGCC
GGCAGCGGCCGCGGTGGGTTCTTCAGGTTATCTTATGATGAGGCTTTTGTATGGCTAAT
GATCCCTTGAAGGCTTCCATGAAGTAAACCTTGCTTCACCTACTTCTCCGACCTTCTT
GGTGTGTATGAATCAGGAACCAAGAGCAGACTACCTCACCAAGTGTATCTACCGGCCA
CACCTTCAAGCTTATCCTCTGTACCTATCCAGGCAAAATGCATTAGATGTTTCTGAACCT
CCTACACAACCCGTGATTATCAGGAGGCTTAAATTTGTCGGAATATCTAGTATC
AGCTTTCATGTTACAGAGCCAGCCCTTGCTCTACCTCTGGAGTCACAGCTGGATTAAC
AAATTAACATAAGAAAGGACAACATAATGCAGAGAGAGAGTTTTTACAGGGTGTACT
ATAACAGAGGCTTGCAGTGGCAGTGATGATATTTTTGGGTTGAGTACTGATAGTCTGTCT
CGTTTACGAAGCCATCTGTTTTGGAAGTTAGAGAAAAGGGCTATGAACGATTAAGAA
GAACTCGCANAAGCTCAGAGGGAACGAAGTTAAAGATGAAGATGTGAGNAGGCTTCAA
GTGCGAGNATCACTTGGACAGGATTGGAGAAGTACAGCTAGTCTATTGAGAAGCTCAA
NATGGTGAGAGCAATATCAGCAGGGCACAGCGAAAACAGCTAAGAGCCAGGGAAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022456 unedited ACGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTCAATCTAACATTTATTTATTTTCAG GTTTTTTTTTTTTTTGGCAACTATAAATTACATTCAGTACACCTGGAATTTCTTCATA GTGTGTTCAACTAAAGAATAAGCAAACACAGCATAGATCAGTTTAAAAGAAATCATGGTA CTTCTTAAAGCAATTTGCAAAAGGGGAAAAAAGTCTTAGGCTCACTCCTTGGAATAAAT ATCAAGTAACCATAAAAATATTCAGCCATTTTTTCAGTTATTCGGGGAGTTCAGGCATGGT CCCACGCAAAGCATCAAAGTTCCTCTTTGAAATAACCCAGCTTTGCCAATGACATCTCTT TTCTCAACTGCATAACCTCCCAAAACATCTGATCAACATCCTGCTGTTTACAGAGTCCCT GCTGAATGTATCGAATGTATGTAAGAAAAGTTACATACAGAAGTGATCCTGTATCTGCAAA AAGGAGAAATATAATAATAGTTGCTTGAGTCCCCTAATTTAATTCTGTGTTTACAGGACT TACTCTGGCCAGTGAGAGCACATTTTTTTGGTCTCCGCATTCAACTGCAGAAGCTTTCA CAAACCGGATAGTTGTAATCCCACTGGTTCATGCTTAAAGTATTGTTTTCCACAGCCT CCAGAACAGCTGAAGCCAACTCACTTTTTGAGAATGTTAAACATGGAAAGATATCTTCT GGTAGATTTTGTCTAAGAAGGACACGTNCTGTCCATTGTGGGCTCATCCCTTTCCACATC GGATTCATTATACAGGGGATAGTCAGCCTTTTGCAGTCTTTTACAATTGGCTGTATCAC ACTGAGTCTGATGACTGCCACTCATAGACTGCTTGAGCTTTTATTTCTGGNATGCACC TTTTAAAAGTNGTCTTNCAGTCAAAGCTCTGCGTAGTGATGTGAAACTGACATACA GGTCTCATGCACTACTAGCTGAGACACAATTTNCTGAGCTCTTTACAGTTTCTGCGG
Restriction Sites:	NotI-NotI
ACCN:	NM_022456
Insert Size:	1840 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:	<u>NM_022456.2</u> , <u>NP_071901.2</u>
RefSeq Size:	1855 bp
RefSeq ORF:	1383 bp
Locus ID:	117177
UniProt ID:	<u>Q96QF0</u>
Cytogenetics:	12q15

Gene Summary:

Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5. Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface. Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (alpha 1) has a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant alpha 2. The resulting isoform (alpha 1) has a shorter N-terminus, compared to isoform alpha 2. 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.