

Product datasheet for **SC307002**

RAB3IP (NM_175623) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3IP (NM_175623) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB3IP
Synonyms:	RABIN3; RABIN8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC307002 representing NM_175623.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATTA AAAAAGATGAAAGGGTTATCTTATGATGAGGCTTTTGTATGGCTAATGATCCCTTGAA
GGCTTCCATGAAGTAAACCTTGCTTACCTACTTCTCCGGACCTTCTTGGTGTGATGAATCAGGAACT
CAAGAGCAGACTACCTCACCAAGTGTCACTACCGGCCACACCCTCAGCTTTATCCTCTGTACCTATC
CAGGCAAATGCATTAGATGTTTCTGAACTTCTACACAACCCGTGTATTATCCCCAGACGTTTAAAT
TGTGCGGAAATATCTAGTATCAGCTTTCATGTTACAGACCCAGCCCTTGTCTACCTCTGGAGTCACA
GCTGGATTA ACTAAATTA ACTACAAGAAAGGACA ACTATAATGCAGAGAGAGAGTTTTTACAGGGTGT
ACTATAACAGAGGCTTGGCAGTGTGATATTTTTGGGTTGAGTACTGATAGTCTGTCTCGTTTA
CGAAGCCCATCTGTTTTGGAAGTTAGAGAAAAGGGCTATGAACGATTA AAAAGAAGAACTCGAAAAGCT
CAGAGGAACTGAAGTTAAAAGATGAAGAATGTGAGAGGCTTTCAAAGTGCGAGATCAACTTGGACAG
GAATTGGAAGAACTCACAGCTAGTCTATTTGAGGAAGCTCATAAAATGGTGAGAGAAGCAAATATCAAG
CAGGCAACAGCAGAAAAACAGCTAAAAGAAGCACAAAGGAAAAATTGATGTACTTCAAGCTGAAGTAGCT
GCATTGAAGACACTTGTATTGTCCAGTTCTCCAACATCACCTACGCAGGAGCCTTTGCCAGTGGAAG
ACACCTTTTAAAAGGGGCATACAAGAAAATAAAAGCACAAAGCAGTGTATGAGTGGCAGTCATCAGGAC
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TTGTGGAAGGATGAGCCACAATGGACAGGACGTGTCCTTTCTTAGACAAAATCTACCAGGAAGATATC
TTTCCATGTTTAACTTCTAAAAGTGAGTTGGCTTTCAGCTGTTCTGGAGGCTGTGAAAAACAATACT
CTAAGCATTGAACCAGTGGGATTACAACCTATCCGTTTTGTGAAAGCTTCTGCAGTTGAATGCGGAGGA
CCAAAAAATGTGCTCTCACTGGCCAGAGTAAGTCTGTAAACACAGAATTA AATTAGGGGACTCAAGC
AACTATTATTATATTTCTCCTTTTTGCAGATACAGGATCACTTCTGTATGTAACTTTTTTACATACATT
CGATACATTACAGCAGGGACTCGTGAAACAGCAGGATGTTGATCAGATGTTTTGGGAGTTATGCAGTTG
AGAAAAGAGATGTCATTGGCAAAGCTGGGTTATTTCAAAGAGGAACTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

Plasmid Map: □

ACCN: NM_175623

Insert Size: 1431 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_175623.3](#)

RefSeq Size: 9651 bp

RefSeq ORF: 1431 bp

Locus ID: 117177

UniProt ID: [Q96QF0](#)

Cytogenetics: 12q15

MW: 53 kDa

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 2) encodes the longest 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.