

## Product datasheet for **SC112945**

### **RAB18 (NM\_021252) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB18 (NM_021252) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB18
Synonyms:	RAB18LI1; WARBM3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112945 sequence for NM_021252 edited (data generated by NextGen Sequencing)

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ATGGACGAGGACGTGCTAACCCACCTGAAGATCCTCATCATCGGGCAGAGTGGGGTGGGC
AAGTCCAGCCTGCTCTTGAGGTTACAGATGATACGTTTATCCAGAAGTGCAGCAACA
ATAGGTGTTGACTTTAAGGTGAAAACAATTTAGTGGATGAAAATAAGGCTAAAATTGCA
ATATGGGATACTGCTGGTCAAGAGAGGTTTAGAACATTAATCCAGCTATTATAGAGGT
GCACAGGGTGTTATATTAGTTTATGATGTCACAAGAAGAGATACATTTGTTAACTGGAT
AATTGGTTAAATGAATTGGAAACATACTGTACAAGAAATGACATAGTAAACATGCTAGTT
GGAAATAAAATCGATAAGGAAAATCGTGAAGTCGATAGAAATGAAGGCCTGAAATTTGCA
CGAAAGCATTCCATGTTATTTATAGAGGCAAGTGCAAAAACCTGTGATGGTGTACAATGT
GCCTTTGAAGAACTTGTTGAAAAGATCATTCAGACCCCTGGACTGTGGGAAAGTGAGAAC
CAGAATAAAGGAGTCAAAGTGTACACAGGGAAGAAGGCCAAGGAGGAGGAGCCTGTGGT
GGTTATTGCTCTGTGTTATAA
```

Clone variation with respect to NM\_021252.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_021252 unedited  GTCACGATATATGTATACGACTTACTATAGNNGCGGCCGCGCAATTCGGCACGAGGCTC  TGCTGAAGGCTGAGAGGCCACCCGGGCGGCCAGCTGGGCTCGGAGCGGAACGGGGTCAG  GATGGACGAGGACGTGCTAACCCACCTGAAGATCCTCATCATCGGCGAGAGTGGGGTGGG  CAAGTCCAGCCTGCTCTTGAGGTTACAGATGATACGTTTGATCCAGAATTGCAGCAAC  AATAGGTGTTGACTTTAAGGTGAAAACAATTTCACTGGATGAAAATAAGGCTAAACTTGC  AATATGGGATACTGCTGGTCAAGAGAGGTTAGAACATTAACCCCAGCTATTATAGAGG  TGCACAGGGTGTATATTAGTTTATGATGTCACAAGAAGAGATACATTTGTTAAACTGGA  TAATTGGTTAAATGAATTGGAACATACTGTACAAGAAATGACATAGTAAACATGCTAGT  TGGAAATAAAATCGATAAGGAAATCGTGAAGTCGATAGAAATGAAGGCCTGAAATTTGC  ACGAAAGCATTCCATGTTATTTATAGAGGCAAGTGCAAAAACCTGTGATGGTGTACAATG  TGCCTTTGAAGAATTGTTGAAAAGATCATTACAGACCCCTGGACTGTGGGGAAGTGAGAA  CCAGAATAAAGGAGTCAAAGTGCACACAGGNAAGAAGCCACGGACGAGGAGCCTGTGGT  GGCTATTGCTCTGTGTTAAAACCTCTGGGAAATTCCTCCTCTGCCATATTGATCAGAAGT  GACCTCTTCTGTATATAAACTCTTACCGCTATTTAGGAACCTTGCCAGTTGACCATT  AATCGCTTCATATCAACACGAAATATTTGCCAGAAATCCCCTCCTCGCCCCCGGTT  AAATGTCTATGTAAGCATGCCACNTTGCAGTCTACAGT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021252 unedited  TATGGACCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTAGGGA  AAGCAGGCTATATTTATCAAGAACTAGAAAAGGTTACAATATAAATCTATCAAACAAA  TTCATTTTTGTTATATCAAGTAACTCATATATTTCAAATTTAGACCAAATCAAGACAA  CAATCCAATACACAGATTATTATATAGCTCAAGGAGCAAAAACAACAGTCTTGCAATA  CAGACTCTACATAAATACACAAATCTCAAGTTTTAATATAACATGAACAATCACAAAGTA  CATGTGTTAGTGTCTTTCTCCAATTTCTAGTAGTAAATCTTGTATTTAGTAAAAGC  ATATAGAATGTATAAAACCTTCAACCACATGTAATGTAGACTAGGAAGTGAATCAAGT  AGAATGTGAGGTTTTATATGTAAGATGTACATTTAGAAAAGAACCAACATGAAGTAA  ATTAACAAACATATTGCAAAGGTGGTCACTCACAAAAATGCTTATCATTGCAATTGTAT  ACAGAGAACAACTGCCAGAAATTAATACTGGAATCTTACTGAGGGGTATTATAGTAAAC  CAACCTTAAAGGACAAATAACTTATTTGGGGGTTAAAAAGCAGAGATCAGTGAAT  AAATAACACATGAATGAAAAAATCTACAATATACAATAGCAAGAGGTGAGAAAACCTGAA  TACTGTGAAAAAGATTTATTAGTCTGTACAAGTTGGGTTTGTGTAAGTACTGTTACTTG  TTAAGTAAATGGTCAAGAATTTCAATTGTGACAGTATTTCCCTCACACATCAGAATCTGG  AAGCATATGCCTTTTTCAATTANACTTATGGTTTTTTCCACCCTCAAACACGAATAGG  GTTTGATACACTAGCCATTTGGAGCCGGAGAACCGAATCTCACCTACCCAACCTCAGTT  AAGGCCTGGCACAACCTACAAAT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021252
<b>Insert Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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\\_021252.3](#), [NP\\_067075.1](#)

**RefSeq Size:** 2809 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 22931

**UniProt ID:** [Q9NP72](#)

**Cytogenetics:** 10p12.1

**Domains:** ras, RAN, RAS, RHO, RAB, ARF

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene is a member of a family of Ras-related small GTPases that regulate membrane trafficking in organelles and transport vesicles. Knockdown studies in zebrafish suggest that this protein may have a role in eye and brain development. Mutations in this gene are associated with Warburg micro syndrome type 3. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]  
Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform 1. 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.