

## Product datasheet for **SC112526**

### **RAB38 (NM\_022337) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB38 (NM_022337) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB38
Synonyms:	NY-MEL-1; rrGTPbp
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 SC112526 sequence for NM_022337 edited (data generated by NextGen Sequencing) ATGCAGGCCCGCACAAAGGAGCACCTGTACAAGTTGCTGGTGATTGGCGACCTGGGCGTG GGGAAGACCAGTATCATCAAGCGCTACGTGCACCAGAACTTCTCCTCGCACTACCGGGCC ACAATCGGCGTGGACTTCGCGCTCAAGGTGCTCCACTGGGACCCGGAGACTGTGGTGCGC CTGCAGCTCTGGGATATCGCAGGTCAAGAAAGATTTGAAACATGACGAGGGTCTATTAC CGAGAAGCTATGGGTGCATTTATTGTCTTCGATGTCACCAGGCCAGCCACATTTGAAGCA GTGGCAAAGTGAAAAATGATTTGGACTCCAAGTTAAGTCTCCCTAATGGCAAACCGGTT TCAGTGGTTTTGTTGGCCAACAAATGTGACCAGGGGAAGGATGTGCTCATGAACAATGGC CTCAAGATGGACCAGTTCTGCAAGGAGCACGGTTTCGTAGGATGGTTTGAACATCAGCA AAGGAAAATATAACATTGATGAAGCCTCCAGATGCCTGGTGAACACATACTTGCAAAT GAGTGTGACCTAATGGAGTCTATTGAGCCGGACGTCGTGAAGCCCATCTCACATCAACC AAGGTTGCCAGCTGCTCTGGCTGTGCCAAATCCTAG  Clone variation with respect to NM_022337.2 105 t=>c



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_022337 unedited  
 TTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTTCCCTGGTCAGG  
 CACGGCACGTCTGGCTGGCCGCCAGGATGCAGGCCCCGCACAAGGAGCACCTGTACAAGT  
 TGCTGGTGATTGGCGACCTGGGCGTGGGGAAGACCAGTATCATCAAGCGCTACGTGCACC  
 AGAACTTCTCCTCGCACTACCGGGCCACAATCGGCGTGGACTTCGCGCTCAAGGTGCTCC  
 ACTGGGACCCGGAGACTGTGGTGCCTGCAGCTCTGGGATATCGCAGGTCAAGAAAGAT  
 TTGGAAACATGACGAGGGTCTATTACCGAGAAGCTATGGGTGCATTTATTGTCTTCGATG  
 TCACCAGGCCAGCCACATTTGAAGCAGTGGCAAAGTGAAAAATGATTTGGACTCCAAGT  
 TAAGTCTCCCTAATGGCAAACCGTTTTCACTGGTTTTGTGGCCAAACAATGTGACCAGG  
 GGAAGGATGTGCTCATGAACAATGGCCTCAAGATGGACCAGTTCTGCAAGGAGCACGGTT  
 TCGTAGGATGGTTTGAACATCAGCAAAGGAAAAATAAACATTGATGAAGCCTCCAGAT  
 GCCTGGTGAACACATACTTGCAAATGAGTGTGACCTAATGGAGTCTATTGAGCCGGACG  
 TCGTGAAGCCCCATCTCACATCAACCAAAGTTGCCAGCTGCTCTGGCTGTGCCAAATCCT  
 ANTAGGCACCTTTGCTGGTGTCTGGTAAGAATGACCTCATTGTTCCACAAATTGTGCCTC  
 TATTTTTACCATTTTGGTTAACCGNCAGGATTAGAGATCCACATGTGGCAAGCCCAAAG  
 ATCTATGCCTCTGTTTTTTCATGAGAGAGAAATAGCAAATGTTCTTTCTATGCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_022337 unedited  
 TAGCTTGNACCGCGCACGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTCATCTTTT  
 AATGTTTTATTGTTCACTTGCAAAATATATAATATATATTACATGTATAGCATGTATA  
 GAGGAGCCCCACAGCTTGAGTCAGAGAAAGCTAACAGAAAGGCACATATGGAGGCATGTC  
 TTTTCATACAATATTCAGTTAAGCCAACATTCAGGCCATGGCAAGTGACAGTTAGGACAA  
 GGACAATATAGCACACCTGTGTTACGATTCCAAAGAGCTAACTCAGAGGCAACTCTTAG  
 GTCTGCCGAGAATGGAGGTCATCTTGGGAGAAAATATCACATCTACTTAATAGGCCTGTC  
 AGGCCATCAGAGAATATATTGAAATCTGGAAAAAGACACCAGGGCAAGGTGAAAGCCAGT  
 CCTTGACTTGACAGCTAGTTTGTCTTCTCCCCTTTTATTTAAGACTTGAGGCCTTTGC  
 TGATTAAGAAGCAAATAACAGTGCCGACTGTGGCCCTCGAGGATTTTGGTCAGCTACA  
 TGACAGAAGTTTGTAAACAGACTAAATATTTTCAAAGTTTGTAAACACTGTGATGATGGT  
 GAGGAAAGCATAGAAAGAACATTTGCTATTTCTCTCATTGAAAAACAGAGGCATAGA  
 TCTTTGGCTTGCCACATGTGGTATCTCTATCCTGACGTTTACCCAAAATGGTAAAAATAG  
 AGGCACAATTTGTGGAACAATGAGGTCATTCCTACCAGACACCAGCAAAGGTGCCTACTA  
 GGATTTGGCACAGCCAGAGCAGCTGGCAACCTTGGNTGATGTGAGATGGGGCTTCACGAC  
 GTCCGGCTCATAGAACTCATTAGTCACACTCATTGCAAGTATGTGTTACCAGCATCTG  
 GAGGCTCATCAAGGTTATATTTTCTTTGCTGATGTTTCAAACATCCTACGAAACGTGCT  
 CCTGCAGACTGGTNTCTTGAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_022337

**Insert Size:**

1440 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).

<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_022337.1</a> , <a href="#">NP_071732.1</a>
<b>RefSeq Size:</b>	1412 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	23682
<b>UniProt ID:</b>	<a href="#">P57729</a>
<b>Cytogenetics:</b>	11q14.2
<b>Domains:</b>	ras, RAN, RAS, RHO, RAB
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	May be involved in melanosomal transport and docking. Involved in the proper sorting of TYRP1. Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with ANKRD27 and VAMP7 (By similarity). Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis (PubMed:21255211). Plays an important role in the control of melanin production and melanosome biogenesis (PubMed:23084991). In concert with RAB32, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]