

## Product datasheet for MC223111

### Rab3gap2 (BC057872) Mouse Untagged Clone

#### Product data:

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Product Type:             | Expression Plasmids                                  |
| Product Name:             | Rab3gap2 (BC057872) Mouse Untagged Clone             |
| Tag:                      | Tag Free                                             |
| Symbol:                   | Rab3gap2                                             |
| Synonyms:                 | 5830469C09, 2010002H18Rik, mKIAA0839                 |
| Mammalian Cell Selection: | Neomycin                                             |
| Vector:                   | pCMV6-Entry (PS100001)                               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                 |
| Fully Sequenced ORF:      | >BC057872<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGAGCCGGCCACCCACTAGCTGTGAGATTTGGACTTCGGATTCTAGACGCCACGGAGAAAGCATAT  
GCCTGTCCCTTGTAAATACCTGGCAGCAGTCACAGATGATTTTGGCAGGGTTATCTTACTGGACGTAGC  
CCGAGGAATCGCAATACGGATGTGGAAGGGTATCGGGATGCGCAGGTCGGATGGATTCAAATTGTAGAG  
GACCTCCATGAACGAGTGCCAGAAAAGGGGGCTTCTCCCTTTGGAAATACTCAAGGGCCAGTCGGG  
TCGCTCAGTTCCTTGTGATCTATGCCCCACGAAGGGGATTCTGGAAGTGTGGAACACACAGCAAGGACC  
TAGAGTGGGAGCTTCAACGTGGGTAAACTGCAGGCTACTGTATCCTGGCTACAAAATCATGGGCTTA  
AACAACGTGACAAGTCAGAGTTGGCAGCCTCAGACTTACCAGATCTGTCTTGTGACCCTGTGTCTGCAA  
GCGTGAAGGCGGTGAACGTGCCTTTCATCTAGCGCTGAGTGATAAGAAGAGTGAAGAGCCAAGGACCT  
GCATTTAGTGAAGAACTATCAGCCCTGCTGAGAGCCAAGTCCCCAGGCCGATTCTTTGAAACCGAA  
ATAAAGGAGTTGATTCTTGATATTAAGTACCCTGCAACCAAGAAACAAGCTCTGGAAGCATTTTGGCCA  
GTGACCGTTTATCGTTTTCTGCCTTAGAAATGTTACTCAGACTTTAATGGACACTTTAAAAACCAAGA  
GCTTGAGTCTGTTGATGAAGGACTGCTACAGTTTTGTGCCAGTAAATAAACTACTACATCTTTATGAA  
TCTGTCACTCAGTTAAATACGCTTGACTTTCAGTACAGACACCCGTTCTCTGATAATGATCTGGCTGTCT  
TGCTAAGGCTGGATGATAAGGAACTCCTGAAACTCCGGGCTTGTAGAGAAATATAACAAGAAAAACAC  
CAAAGCCACCGTGCGCTTTTCTGAGGATGCAGACAGAGTGCTACCTGTCAAGACCTTCTGGAGTATCTA  
GAGTATGAGAAGGATGCACTGAGCATAAGGAAGATCGGAGAGGAGGAGTGTGTGGCTTAGGCAGTTTCT  
TTTTCTGGAAGTGTGTCATGGAAGAGCTCCACTGAAGAGATGTGCCACAGCCTGGAGTCGGCTGGACT  
CAGCCCTCAGCAGTTACTGTCTGCTCCTAAGTGTGGCTTTCGAAGGAAAAAGACATTTTGGACAAA  
CCACAGTCTGTCTGCTGCCTTCATACCATGCTGTCCCTGCTGAGCAAGATGAAAGTGGCCATCGATGAGA  
CGTGGGATTCTCAGTCTGTGTCCCTGGTGGCAGCAGATGCGCATGGCCTGCATCCAGTCAGAGAACAG  
CGGAGTGCCTGCTGTCTGCACATGTGGGCATTCTGTGGCCGACAGATGTCCAGCGGTGCTACAGAT


[View online »](#)

AAGAAATTTTCCAGATGGAGTTGGATGCAGATGCCGAAGCCCTCACGGACTCCTGGGAAGCTCTCTCTC  
TGGACACGGAGTACTGGAAGCTCCTGCTGAGACAGCTGGAGGACTGCCTCATACTCCAGACTCTGCTGCA  
TAGCAAATTGACCCCCCAGCCGCCAAAGCACCATCTCTGCAGTCGGAGCCACTGCCAAGGCTTTCTGTT  
AAAAAGCTGTTAGAAGGGGAAAAGGTGGTATTGCAGACAGTGTAGCCAAGTGGATATTTAAACAGGACC  
TCAGCCCTGAATTGTTGAAATGTGCCAACAAAGAGAGAGATGTAGAAAATCCAGACGAACCCAGAGAAGA  
CTTGCTCCACCTGGCCTACGAGCAGTTCCTTTGAGCCTTGAGCTTGATGTGCTGCACGCCCACTGCTGC  
TGGGAGTATGTGGTTCAGTGAACAAAGACCCGGAGGAAGCTCGCTTTTGGTTAGATCCATAGAACACT  
TGAAGCACATTCTTAATCCACACGTTCAAATGGTATCGCGCTGATGATGTGGAATACGTTCTTGGTGAA  
AAGGTTTTCTGCTGCTACTTACCTAATGGATAAGGTTGGGAAATCTCAAAGGATAGGTTGTGCCGAAGG  
GATGTGGGGATGAGCGACACGGCGCTGACATCCTTCCTCGGCTCCTGCCTGGAATTCTTCAGACGTCAT  
TGGAGGCTGACATTAGCAGGGATGAAGTCCAGGTGCCCGTCTGGACACTGAGGACGCCTGGCTGTCCGT  
GGAAGGCCCATCTCTATAGTGGAGCTGGCGCTGGAGCAGAAGCCTATCCACTACCCACTGGTGGAGCAC  
CATTCCGCTCTGTCTCCATCCTGTACGCGTCCATGCGCTTTTCTCTGAAGAGTGTGAAGCCACTCGCCC  
TTTTTGACAGCAAGGGAAGAACGCATTTTTTAAGGATTTAACTTCAATTCAGTTATTACCTAGTGGGA  
AATGGATCCAAATTTTATTTTCAGTAAGACAACAGTTCTTACTGAAAGTTGTCAGTGCAGCTGTCCAGGCT  
CAGCATCCAAGGACAAAGATCCCTCTGCAGAAGCAGCAAAACACTCATTGGAAAGACCTCAACTGGCCAG  
GTTTGGCTGTGGACTTAGCCCATCACCTTCAAGTGAGCGACGATGTATTGGAAGCACTATGTGGGGGA  
GCTGTACAGCCATGGAGCTGACCTCTTAGGAGAGGAGGCCATTTTCAAGTTGAGGACAAAGAAGTTCTG  
GCGTCTCAGCTGCTAGTGTGACCGGGCAAAGGCTGGCTCACGCGCTTTTCCACCCAGACGAAGGAAG  
GCATGGAGCTGCTGGCCAGACTCCCGCCACACTCTGCACCTGGCTGAAGGCAATGAACCTCAGGATCT  
TCAGAACACTGGCGTGCTATTGCAGCAACAGCTAAACTCGTGCATAAAGTGATGGAGCTCCTGCCAGAG  
AAGCACGGGCAGTACAGCCTCGCCTTACACCTCATCGATGCCGTGGAAGCCATGGCGACTTATGA

AGCGGACCGACGCTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATA  
TCCTGGATTACAAGGATGACGACGATAAGGTTTAA

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restriction Sites:</b>     | SgfI-RsrII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ACCN:</b>                  | BC057872                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Insert Size:</b>           | 3006 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).                                                                                                                                                                                                                                                                                                                                    |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u><a href="#">BC057872</a></u> , <u><a href="#">AAH57872</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

RefSeq Size: 3390 bp

RefSeq ORF: 3005 bp

Locus ID: 98732

Cytogenetics: 1 H5

**Gene Summary:** Regulatory subunit of a GTPase activating protein that has specificity for Rab3 subfamily (RAB3A, RAB3B, RAB3C and RAB3D). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones. Rab3 GTPase-activating complex specifically converts active Rab3-GTP to the inactive form Rab3-GDP. Required for normal eye and brain development. May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters (By similarity).[UniProtKB/Swiss-Prot Function]