

Product datasheet for **RN203231**

Rab3gap2 (NM_001040154) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3gap2 (NM_001040154) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rab3gap2
Synonyms:	RGD1311518
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN203231 representing NM_001040154 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCTGCTCCATCGTCCAGTTCTGCTCCTTTCAGGACCTGCAGTCCGCGCGGACTTCCTATTCCCTC
AGCTGCGGGAGGAGACCCCGGAGCCCTGAGAAGGGACCCAGTAAAACATCAAAGTGGGAAGATGATAG
TTGGGGAGCATGGGAAGAAACAGAGCCCCAAGAACCTGAAGAAGAAGGAAATACTTCTAAAACACAAAA
CATTCTGGCTCAAGAATGTGTTTTATCCTCTCTCCAACAGTGACCTTATGGTCATAGCCCGGGAGC
AGAAGGCCGATTTCTAGTGCCAAAATGGAAGCACAGTGATAAAGGGAAGGAGGAAATGCAGTTCGCTGT
CGGTTGGAGCGGCTCCGTAAGTGACAGAGGAAGGGGAGTATGTAACCAAGTCTGTGCATCCCGCTGGCA
AGTCAGAAGAGGAGTTCCACTGGGCGCCCTGACTGGACCTGCATTGTAGTGGGCTTTACGCTGGTTATG
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TAAATGTAGGACCTATGAAATCCCAAGACACCCTGGAGTGACTGAGCAGAATGAAGAGCTGAGCATCTTA
TATCCGGCTGCCATTGTGACCATTTGACGGATTTAGTCTTTTCAGTCTCTTCGAGCTTGTGAAACCAGG
TAGCAAAAGCTGCAGCATCAGGCAATGAGAACATACAACCACCACCGTTAGCTTATAAGAAATGGGGTCT
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GGCAAACTGCAGGCTGCTGTATCCTGGCTACAAAATCATGGGCTTAAACAATGTGACAAGTCAGAGTT
GGCAACCTCAGACTTACCAGATCTGCCTTGTGACCCTGTGTCTGCAAGTGTGAAGGTGGTGAACGTGCC
TTTCCACTTAGCACTGAGTGACAAGAAGAGTGAAGAGCCAAGGACCTGCACTTAGTGAAGAAGCTGGCC
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GCTGGCTCATGCACTTTCCACACCCAGACGAAAGAAGGCATGGAGTGTGAGGAGCTGAGGAGCTGAGG
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CATCGAGGCTGTGGAAGCCATGGCTACCTTAGA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001040154

Insert Size:

4164 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:	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_001040154.2, NP_001035244.2</u>
RefSeq Size:	4304 bp
RefSeq ORF:	4164 bp
Locus ID:	289350
UniProt ID:	<u>Q5U1Z0</u>
Cytogenetics:	13q26
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.[UniProtKB/Swiss-Prot Function]