

Product datasheet for **MR211419**

Rab3gap2 (BC057872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3gap2 (BC057872) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab3gap2
Synonyms:	5830469C09, 2010002H18Rik, mKIAA0839
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211419 representing BC057872 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAGCCGGCCACCCCACTAGCTGTGAGATTTGGACTTCCGGATTCTAGACGCCACGGAGAAAGCATAT
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GACCTCCATGAACGAGTGCCAGAAAAGGGGGCTTCTCCCCTTTGGAATACTCAAGGGCCCAAGTCGGG
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AAGAAATTTTCCAGATGGAGTTGGATGCAGATGCCGAAGCCCTCACGGACTCCTGGGAAGCTCTCTCTC
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Protein Sequence:

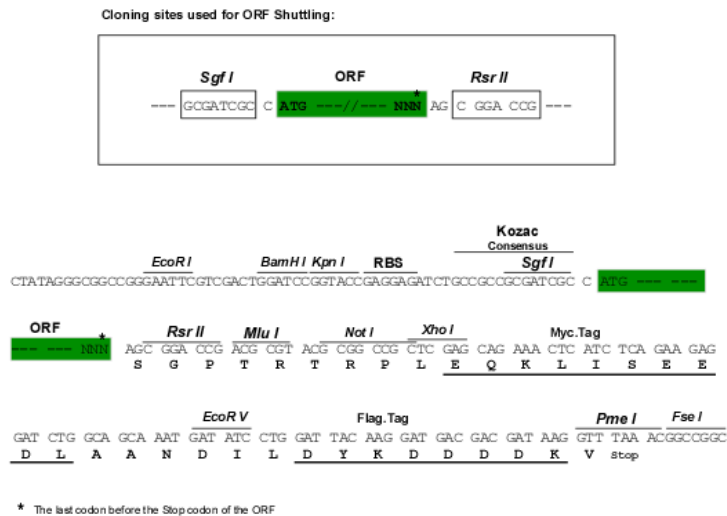
>MR211419 representing BC057872
Red=Cloning site Green=Tags(s)

MEPATPLAVRFGLPDSRRHGESICLSPCNTLAAVTDDFGRVILLDVARGIAIRMWKGYRDAQVGWIQIVE
DLHERVPEKGGFSPFGNTQGPSRVAQFLVIYAPRRGILEVWNTQQGPRVGAFNVGKHCRLLYPGYKIMGL
NNVTSQSWQPQTYQICLVDPVSASVKAVNVPFHLALSDKKSERAKDLHLVKKLSALLRAKSPRPDSFETE
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SVSQLNTLDFHSDTPFSDNDLAVLLRLDDKELLKLRALLEKYKQENTKATVRFSEDADRVLPVKTFLLEYL
EYKDALSIKIGEEECVALGSFFFWKCLHGKSSTEEMCHSLESAGLSPQQLSLLL SVWL SKEKDILDK
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KKFSQMELDADAELTDSWEALSLDTEYWKLLLRQLEDCLILQTLHLSKLTPPAKAPSLQSEPLPRLSV
KKLLEGGKGGIADSVAKWIFKQDLSPELLKCANKERDVENPDEPREDLHLAYEQFPCSELDVLHAHCC
WEYVVQWNKDPEEARFLVRSIEHLKHILNPHVQNGIALMMWNTFLVKRFSAAATYLMDKVGKSPKDRLCRR
DVGMSDALTSLGSCLELLQTSLEADISRDEVQVPVLDTEAWLSVEGPISIVELALEQKPIHYPLVEH
HSVLCISILYASMRFSKSVKPLALFDSKGNAFFKDLTSIQLLPSGEMDPNFI SVRQQFLKVVSAAVQA
QHSKDKDPSAEAAATHWKDLNWPGLAVDLAHLQVSDDIVRRHYVGEL YSHGADLLGEEAIFQVQDKEVL
ASQLLVLTGQRLAHLFHTQTKEGMELLARLPPTLCTWLKAMNPQDLQNTGVPIAATAKL VHKVMELLPE
KHGQYSLALHLIDAVEAMATL

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: BC057872

ORF Size: 3003 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC057872.1](#)

RefSeq Size: 3390 bp

RefSeq ORF: 3005 bp

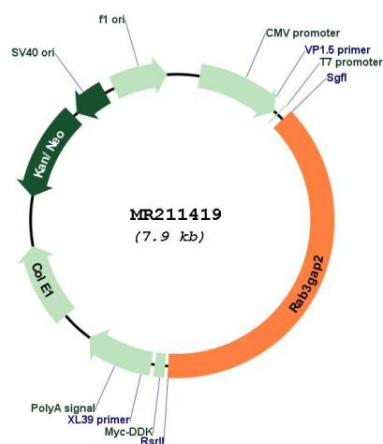
Locus ID: 98732

Cytogenetics: 1 H5

MW: 124.3 kDa

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]

Product images:



Circular map for MR211419