

Product datasheet for MC222969

Rab3gap1 (NM_178690) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3gap1 (NM_178690) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab3gap1
Synonyms:	1700003B17Rik; 4732493F09Rik; AL117896; p130; Rab3gap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222969 representing NM_178690 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGACAGTGAGCCGAGTCCGAAGTGTGGAGATCACAGACTTCACCACAGCCTCGGAGTGGG
AGAGGTTTATTTCCAAAGTTGAAGAAGTCTTGAATGACTGGAACTGATTGGACCCTCTCTGGGAAAGCC
ACTGGAAAAGGGTATTTACTTCTGGCACATGGGAAGAGCGATCAGATGAAATTCCTTTGCTGACTTC
AGGTTTTAGTACACATCACTATCTTGTACAAGAGTCTCCTGATAAAGAAAGAAAGGATGAAGAATTGG
AGGACGCTATTCCACAGTCAATGCAAGATTTGCTATGTATGAATAACGACTTTCCTCCAAGAGCACATTG
CCTGGTAAGATGGTATGGCCTGCGTGAGTTTGTGGTGATTGCTCCTGCTGCACACAGTATGCAGTTCTC
AGTGAATCCAAGTGAACCTCCTCCTTAGTTCATTTCTATTGCTTTGGGAAACACTGGCTGCCAGGTAC
CACTGTTTGTCCAAATACATCACAAATGGCGACGAATGTACATGGGAGAAATGTCAAGGCTCCTGGTGTTCG
TACTGACTTTGAAATGGTTCATCTTCGAAAAGTGCCAAGTCAAGTACACTCATTGTGCAAGGCTGCTGGAC
ATCTTCAAATCCAAAATGGCTGTCTTTAACTCCATTGCCTCCAGTTAGCATTGCGATTCCGGCTCACAT
ACGTGCTTCAGGATTGGCAGCAATACTTTGGCCTCAGCAGCCTCCAGATATAGATGCCCTTGTGGGAGG
AGAAGTTGGGGCCTGGAGTTCGGCAAGTTGCCATTTGGTGCCTGTGAAGATCCTATCAGTGAATCCAT
TTAGCAACAACGTGGCCTCATTGACAGAAGGGATCATTGTAGATAATGATGTTTATTCTGATTTGGATC
CTGTTCAAGCTCCCAATGGTTCGGTTAGAGTTCGAAAAGCTGATAATCCCAAGTGCCTACTAGGTGATTT
TGTTACTGAATTTTTAAAAATTTGCCGTCGAAAGGAATCAACGGATGAAATTCCTGGACGATCCACATTT
GAAGAAGAGGGAAGAGAAGTTGCTGATATAACTCATGCTTTGTCAAAGCTGACTGAGCCAGCGCCAGTTC
CAATTCATAAATTATCAGTTTCAAATATGGTACACACTGCAAAGAAGAAGATACGGAAGCACAGAGGGGA
AGAGTCGCGCTGAACAGTGTGTTCTCAATACTATTCTCTTGTCTTGTCCAGATGCTGTCTCTGAG
AAGCCGTTAGATGGAACACTTCAATAGACAATAGCATTCTGCACCAGAGGCTGGAGACTATACTCTCT
ACAATCAGTTCAAGTCTGCGCTCCGACAGTCTAACATACAAACTGGCCTTGTGTCTTTGTATGATCAA
CTTCTACCATGGAGGGCTGAAGGGAGTGGCACATCTCTGGCAGGAATTTGTTCTTGAATGCGTTTCAGA



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TGGGAAAACAACCTTTCTGATTCCAGGACTAGCAAGTGGATCACCAGATCTAAGATGCTGCTTACTGCATC
 AGAAACTACAGATGTTAAATTGTTGATTGAAAGGAAGAAAGCACGTGATGAAGGGAAAAAGACGAGCCT
 CTCGGATAGTACGACTAGTGCATATCCAGGGGATGCTGGGAAAACGGAGGCCAGCTGGGCTGGACCAT
 CTCAGAGATACAGAGAAGGAAAAGGAGAAGTAGGGAAGTCTGGGATTCCTGGAGTGATAGTGAAGAAG
 AGTTTTTTGAATGCCTCAGTGATACGGAAGACCTTAAAGGAAACGGACAGGAGAGTGGTAAGAAAGCGG
 TCCCAAGGAGATGGCAAACCTTAAAGCCAGAAGGCCGCTGCACCAGCACGGGAAACCTACCTGCTGCAT
 AATGGAGAGCCTCTACATTCCAGTGACCCAGGAACCAGCACCATGACAGAAGATCTGCTGGAAGAGC
 AGTCTGAGGTCTTAGCAAATTAGGGACATCTGCTGAGGGGGCGCACCTCCGCGCACGCATGCAGAGTGC
 CTGTCTCCTCTCCGATATGGAGTCTTTAAGGCAGCTAATCCAGGCTGCTTTCTGGAAGATTTCTGAGG
 TGGTACTACCAAGGGACTACATTGAGGAGGAGGTGACTGACGAGAAGGGCAATGTGGTCTGAAGGGGG
 AGCTGAGTGCCCGTATGAAGATCCCAGCAACATGTGGGTAGAAGCCTGGGAGACTGCTAAGCCTGTGCC
 AGCAGCAGCTCAGAGGAGACTGTTTGTGACACCCGAGAGGCTGAAAAGTCTGCCTACTGCCCATG
 CAGAAGCCTGCAGACCTAGCCAGGCACCTCTGCCTTGTGTGATTCATGCAGCTGTTCTCAAGGTAAGG
 AAGAAGAAAGTCTGGAACATTCTTTCTGTTAAGAAGATTATAAAGCAGATCATAGCCATTCCAGCAA
 AGTTCTGCATTTCCCAATCCTGAGGACAAGAACTGGAAGAAATCATCCTTCAGATTACTACTGTGAA
 GCTATAATAGCCCGAGCCGGTCCCTGAAGGCCAAATTTGGAACAGAGAAGTGTGAGCACGAGGAGGAAA
 AGGAAGGTCTGGAAGGTTTGTGAGTGCCTGCTGGAGCAGCCTGAGGTATCAGTCACTGGGCGAGGAA
 AGGACATGCTGGCCGCATCATCCACAAGCTGTTTGTGAATGCTCAGCGGGCTGCGGCAGTGGCTCTGCCA
 GAGGAGGAGCTTAAGAAATCAGGCTGCCAGAGGAGAGAAGACAGACCTTGGTGTGAGACTTCCCACCAC
 CTGCAGGCCGGGAGCTGATCCTGAGGGCCACTGTGCCGCGCCTGCTCCCTACTCCAAGGCCCTGCCACA
 GCGTATGTACAGCGTACTACCAAGGAGGACTTCAGACTCGCGGGTGCCTTTTCTCAGACACCTCCTTT
 TTC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_178690
- Insert Size:** 2946 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:** [NM_178690.4](#), [NP_848805.2](#)
- RefSeq Size:** 4251 bp
- RefSeq ORF:** 2946 bp

Locus ID: 226407

UniProt ID: [Q80UJ7](#)

Cytogenetics: 1 E3

Gene Summary: Probable catalytic 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. 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]