

Product datasheet for **MC209810**

Rabgap1l (NM_001038621) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rabgap1l (NM_001038621) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rabgap1l
Synonyms: 5830411O09Rik; 8430421H08Rik; 9630005B12Rik; AW049894; Hh1; HHL; mKIAA0471
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209810 representing NM_001038621
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGAAGGGGTGCCCTGCCAGCCCCAGCTGCTAAGCTCACACCTCCTGTCAAAAAGTCCCAGGACA
TGCACGACGAGAGGAGCAAGCTGGTGAATGAGTATGCATGTCGAGTGTGGAACCTCTGGGGATGGGGCA
TCGGCTGTTTGTCCACGGCTTCTGGCGACCTCAAAGGAAGACCTCCTTCAGGCTGATTTGAAGGTGCT
TTGAAGTTTTTCAGAGTTCAGCTTCAAAGAGATACCGGGCAGAGGAGAATGCAAGAAGATTGATGGAAC
AGGCTTGAATATTAAGTACCAACCAAAAAGCTGAAGAAATATGAAAAAGAATATCAGGCGATCGGGGA
GAATCAGCTGCAGCAGGAGGACCAATGGATAGATACAAGAGGGAGAACCGAAGATTACAGGAGGCCAGC
ATGAGGTTGGAACAAGAAAATGATGACCTTGCCCATGAACTAGTGACAAGCAAAATTGCTCTGCGGAATG
ACTTGATCAGGCAGAAGACAAGGCTGATGTGCTGAATAAGGAGCTCCTCTTTACCAAGCAGAGGTTGGT
GGAGACTGAGGAAGAGAAGGAAGCAAGAGGAGGAGACCGCCAGCTAAAAGAAGTCTTCAGGAAAACAG
TTAGAAAAGGCAGAATATGAGATAAAGAAGACAACAGCTATCATTGCTGAGTATAAACAGATATGTTCTC
AATTAAGTACCAGGCTGGAGAAACAGCAAGCAGCCAGCAAGGAGGAGCTAGAAGCAGTAAAGGTTAAGT
GATGGCATGCAAACACTGCAGTGATATCTTCAGCAAGGAAGGAGCTTTAAAGCCAGTGGCCGTAATAGA
GAGGACCAGGACTTGAAGCAGATGATGAAAAGGACTCACTTAAGAAGCAGCTGAGGGAGATGAACTGG
AACTGGCAGACCAAACCTGCAGCTGGTGAAGCCAAGTGCAAAATCCAGGAACTTGAGCATCAGAGAGG
AGCGCTTATGAATGAAATACAAGCTGCAAAAACCTTGGTTTAGTAAAACCTGAACTCTATCAAAAACA
GCCACAGGCACTCAGCCACTACAGCCGCCACAGGCTCCCCAGCCACCCAAGGAGAGCACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001038621



Insert Size:	1113 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:	<ol style="list-style-type: none">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_001038621.2, NP_001033710.1</u>
RefSeq Size:	6338 bp
RefSeq ORF:	1113 bp
Locus ID:	29809
UniProt ID:	<u>A6H6A9</u>
Cytogenetics:	1 H2.1
Gene Summary:	<p>GTP-hydrolysis activating protein (GAP) for small GTPase RAB22A, converting active RAB22A-GTP to the inactive form RAB22A-GDP (By similarity). Plays a role in endocytosis and intracellular protein transport. Recruited by ANK2 to phosphatidylinositol 3-phosphate (PI3P)-positive early endosomes, where it inactivates RAB22A, and promotes polarized trafficking to the leading edge of the migrating cells. Part of the ANK2/RABGAP1L complex which is required for the polarized recycling of fibronectin receptor ITGA5 ITGB1 to the plasma membrane that enables continuous directional cell migration (PubMed:27718357). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct N-terminus compared to isoform a.</p>