

Product datasheet for **MC206701**

Rab21 (BC055042) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab21 (BC055042) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab21
Synonyms:	9630024B22
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055042
 GGAGACGCCATTAGAGGGAGGAGAGGCAGCTCTCCCTAGCCTCGGGTCCCTGACGTGGTGGCCGGGGCC
 CTTCAATCTGGGACTTTCTCTCGGCCCTCGCAGGCCTCGCCCAGGAAAGGACCGGCGAGCACCGGGCTC
 GGCGGGCGGTAAAGAGCCGGGCCCGGGAGGAGCGGGCGCCCCGGCGGGCGGTGCGGGGTTCCGGCGG
 GCGCTGGGCTCGGGCGGGGGTAGCGGCGGGGATGGCTGCGGCCGGCGGGGGCGGGCGGGCGG
 GGGCCGAGCCTACTCCTCAAGGTGGTGTCTCGGGGAAGGCTCGCTGGGAAGACGTCGCTGGTGTG
 CGCTACTGCGAGAACAAGTTCAACGACAAGCACATCACCACCCTGCAGGCATCTTTCTTAACAAAGAAGT
 TAAATATTGGTGGAAAAAGAGTAAACCTTGCCATATGGGACACAGCAGGTCAGGAGAGATCCACGCACT
 GGGCCCAATTTACTACCGAGATTGAACGAGCTATTTTATGTTTATGATGTAACGGATGAAGATTCCTTT
 CAGAAGGTAAAAACTGGGTCAAAGAATTACGAAAAATGTTGGGAAATGAGATCTGTTTGTGATAGTTG
 GTAATAAAATAGACTTGGAAAAGGAGAGGCACGTCTCTATTCAAGAAGCAGAATCGTATGCAGAGTCTGT
 GGGAGCCAAGCATTACCATACTCCGCTAACAGAACAAAGGCATTGAGGAGCTCTTCTCGACCTTTGT
 AAAAGAATGATAGAGACAGCCAGGTGGATGAGAGAGCAAAGGCAATGGCTCGAGTCAAGCCGGGGCTG
 CAAGGCGAGGTGTCAGATCATCGACGACGAGCCTCAAGCTCAGAGCAGCGGAGGGTGTCTTCCCGG
 CTAAGTGTGACCTGTGACCCTAAAACATAAGAGAAGTGTGGATCATTGCCCTCAACATGAAGACTGC
 CATATCCAAGTCACATCAATTTACCAATGGAGTTATAGAATTAACAGTATTTTCAATTACGTTTATAAC
 ACTGCAGAGACCTTAAGTGTAACTTAGTGGAGTTTGTGACCAGAGAATTGGCATTCTTCTACAAATGTT
 AACAAAGCAATTACCAATGGCCTTTTTACATATTTTTCTTTAATGAGGAATAATATGCATGTAGAAAAG
 ACCTACTTAAAGGCTTCATTTATATTCTTTTAAATCAGATCTTTATTTAATAACTTATATATGATGTTGG
 AATGGTATACATTTTGCAGTCTTTGTATTTGTGGTAGTTGAATTGTATCACTTCTAAACAGCATACT
 TGTTTTTGTTTTGTTTTGATTAGCAGATACGTGAAGTTCTATTTTGCAGGGTTTGCACAGGCCCT
 AACTGTCTACTACTTTGATATAATCTATAAACATCCTGTATGCTGAGCTGGTAAAATACATTGTAATTA
 CATATTAATATTTTATCTGCTTTTACAAGCGCAAGGTGCAAAAATATATAACAATTGTCACTTTGATGAC
 GTGAGGTGAATTAACCGTTGGTGATAACACCTAAGCTTTTACTCTGTTATAGCGCTCACCAACCCCTTC
 CCTTGTCTTAACGTGGAAGTGCACACTTACGTGTTACAGACTTACCTGACTCGTTACTTACCGCTGC
 TGTACCTTCCCCTTCCCCTTTTTCTGTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
 GGCCTCTGTATGCCCAGTATCCAAAAGCAGCGTTTGCCTTTTATTGTTATTAACAAGTTTCTTCT
 GCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: BC055042

Insert Size: 669 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: [BC055042](#), [AAH55042](#)

RefSeq Size: 1856 bp

RefSeq ORF: 669 bp

Locus ID: 216344

Cytogenetics: 10 D2

Gene Summary: Regulates integrin internalization and recycling, but does not influence the traffic of endosomally translocated receptors in general (PubMed:16754960). As a result, may regulate cell adhesion and migration (PubMed:16754960). During the mitosis of adherent cells, controls the endosomal trafficking of integrins which is required for the successful completion of cytokinesis (PubMed:18804435). Involved in neurite growth (By similarity). Following SBF2/MTMT13-mediated activation in response to starvation-induced autophagy, binds to and regulates SNARE protein VAMP8 endolysosomal transport required for SNARE-mediated autophagosome-lysosome fusion (By similarity).[UniProtKB/Swiss-Prot Function]