

Product datasheet for **MC205309**

Rab10 (NM_016676) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab10 (NM_016676) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab10
Synonyms:	AW107754
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC056374
 GGGAAAAAGTGGCTCTGGCCGGGGCGGCTCTGTTTCCTGGGGTTATGTAGCAGGGCTTGTGGCTCGCG
 AGACCTCCCGCTGCCCTCGCCCGTGTCTAGCGCGGGGTTTCTGCTCCGGGCGGAGGCCGTGTTCAAGCC
 CGCCGCGCTCCCTCGACGTAGAGCTCGCTCGTCCGCCCGTGGGAGCGTCCCGGCCGAGCTGCGCTGAGGG
 GGGAGGGGAGGCCATTTGTCCCGACCGACTCCCCGGAACCGGGCGGAGCGGCTGGGAGAGGCTGCGGAG
 CCGCGGGCGCCGCCCTCGGAGGCACGGGCGCCGCCACCGTCCGGGCTTCTCGACGAGGCCGTTCCGAA
 GGTCCTCTGCTCCGTCTCGAGAGCTGCTTCTCCTTCCGCACACGCTACCCGGCTGCTCGGGCCCCAGAA
 CGCCCGGGTGAGGAGTTGGTTGTAGTGAGCAGTCCGATCCCTTGGGGCTACCGGCGGCGAGCGCCCGAG
 CCGCTCCTCCCAATGGCGAAGAAGACGTACGACCTGCTTTTCAAGCTGCTCCTGATCGGGGACTCGGGAG
 TGGGAAGACCTGCGTCTTTTTCGTTTTTTCGGACGATGCCTTCAATACCACCTTTATTTCCACCATAGG
 AATAGACTTTAAGATCAAAACAGTGGAACAAGGAAAGAAGATCAAGCTACAGATATGGGACACAGCA
 GGCCAGGAGCGATTTACACCATCACAACCTCCTACTACAGAGGAGCAATGGGCATCATGCTAGTGTATG
 ACATCACCAACGGTAAAAGCTTTGAGAATCAGCAAGTGGCTTAGAAACATAGATGAGCATGCCAATGA
 AGATGTGGAAGAATGTTACTAGGGAACAAGTGTGACATGGACGACAAGAGAGTTGTACCGAAAGGCAAA
 GGAGAACAGATTGCAAGGGAGCATGGTATTAGGTTTTTGGAGCTAGTGCAAAAGCAAATAAAACATCG
 AAAAGGCGTTCCCTCACATTAGCTGAAGACATCCTCCGAAAGACCCTGTAAAAGAACCCAACAGTAAAA
 CGTAGATATCAGCAGTGGAGGAGCGTGACGGGCTGGAAGAGCAAGTGTGCTGAGTGTCTCCTGTCCA
 TCTGCTGCCATCCACCATCCGGTCTCTTCTTGTGCAAAAATAAAACACTCTGTCCATTTTTAACTCTAA
 ACAGATATTTTTGTTTCTCATCTTAACTATTCAATCCACCTATTTTATTTGTTCTTTTATCTGTGACTGC
 TTGCGGACTATTATAATTTTCTCAAACAACAAACAAAAATGTATAGAGAAATCATGTCTGTGAGTTCA
 TTTTGAGATTTACTTGCTCACTCAGCCCTGCACCTCAGTTGTATTATAGTCCAGTTCTTATCAACATTA
 ACTAGAGCAATCATTTCAACTATTCTGCAAATGTATAAGAATAAAAGTTAGAATTAACAATTTTATTTT
 GTACAACAGTGGGATTTCTGTGATGAATAATGTGCTTATCCCTATAATCTATAGACGTGATGACAAAG
 AAACAAAAGCCAGGAAAACACTCATTTTCGCCTTGAAGTGTATGTGGGTTAATTTGCTGTGCCTTATG
 TGGAAAGGAACGTCTTTGGTTTTCTTTTTTGGTTTGGTGAAGCATGAGCAGGAGACATTTTATCCAG
 CATAAACTCCTTCAGATGCTTGTGGTTTGTGGCTGTATCTTTCACGATAGTTAACTGAGGACAAAGGG
 TAATGCAGAAGTATTTGATTTCATTCTCATTCCAGTGGCCTTGATATTTAACTGATTCCTGCCA
 CCAGGTCCTTGGGCCACCCTGCTCCTGCGTCTCATCTTCTGCATGCTGCTTTGTTTGGCCCTACTACTC
 CTGGTGTGAGTTATTTAAAGATGAAAGGTTTGTCAAGTTAACATACAGCACTGATTTTACCTTGCTAAG
 TAAACAGAAAGATAAATTTCAACTGCCTATTAAGTGTGAGTTAATTCGGGTGAGCCCTCATTTACTCTC
 TCCCCAAACCTGCCCGCTGTTGGCCTTCTGTCCCCACCCTTCTGTCTATCCATGGAGTTTATGAAA
 TGGAAAGTAAATGATGCACTAGTGTGGAGGGTGTGGGCTTGTCTTTCTAATTAGTATATATC
 CTATTCATTTCTAGAGTAAACCTCCTAACCTGGATTGACTAGTCTCCATTATGCCAGCTCCTCTGGC
 AGTTCCGCGAGCCAGGAAAGACTGGTTTTAAAAAGAGCAAGAAGGAGTGGGCTTAGTAGCGTTTGTCA
 AATGTATTGAGATTTGGCCTTTGAAGAACATTTGGTATTAAGTTGCTTTACTGTAAGATTTAGAAAT
 GCATTATAATATTATTAATTTCAAGTCTATCTTTACATCCTCTCAGAAAACCTCTGATACCATGAATAT
 TTTAAAAAAGAAAAGGACCGCAAAAGGCTTCTCGTGTAAAGTGTGACTCTGGCTCTGTCTGACCCGC
 CCTTCTCTCCCTTTCTAGTTTGGCTTCTTCTCATTAGGATAGGGTAGGCTAAGTTCCCTATGCT
 GCTAGCATCCTAAGATGATACCTTTGTGGAATAATTGTGAATAGCATGATTCATTTCAAGCAGAGGCTG
 AGTTTAGGACAGCAGTACCATTGAGAAGATTTCTGTGACATGCATTTTAAAGACCTCTTGGCTCACATA
 AAACAATATAGGGACATATCTGCTAAAAGAACCATGAATTTTTAGATAGTGTCCACAGACAATTTCTAC
 ATGCCTCACTGGTGGCTCTTAGGGTTTCTCCCTCACTTGACTTTATCATTGTTTACTAGTAAAAAGCAG
 CATTGCCAAATAACCCCTGATTTTCCACTATGAAAAATGCGATGTGTAAGCTTTTAAAGTTGTAGGTTAA
 ACCTCCTGTTGTATCTTTGCTGTTTGTGTTGCTTCTTCTATCTGGAATGTGGTAGCCACCTCTTTAAA
 CTTTTTTTAAACCCTAATTCAGTGACTTAAGGTTTGGAGATACACACTGGGATTTTGGCTAACAGACTGA
 CAGTTTTGTTGTTGCATAATTATAATCGACATTGTACAGAGAAAGGATAAGGCTACCTTTGTTAAATCT
 GCACCTTCTGAATATCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_016676
Insert Size: 603 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:	BC056374 , AAH56374
RefSeq Size:	3185 bp
RefSeq ORF:	603 bp
Locus ID:	19325
UniProt ID:	P61027
Cytogenetics:	12 1.71 cM
Gene Summary:	<p>The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). That Rab is mainly involved in the biosynthetic transport of proteins from the Golgi to the plasma membrane. Regulates, for instance, SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane. In parallel, it regulates the transport of TLR4, a toll-like receptor to the plasma membrane and therefore may be important for innate immune response. Plays also a specific role in asymmetric protein transport to the plasma membrane within the polarized neuron and epithelial cells. In neurons, it is involved in axonogenesis through regulation of vesicular membrane trafficking toward the axonal plasma membrane while in epithelial cells, it regulates transport from the Golgi to the basolateral membrane. Moreover, may play a role in the basolateral recycling pathway and in phagosome maturation. Finally, may play a role in endoplasmic reticulum dynamics and morphology controlling tubulation along microtubules and tubules fusion. [UniProtKB/Swiss-Prot Function]</p>