

Product datasheet for **MC200352**

Rab1a (NM_008996) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab1a (NM_008996) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rab1a
Synonyms: Gtbp; mKIAA3012; Rab-1; Rab1; Ypt1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC002077 sequence for NM_008996
 CGGACGCGTGGGGCGATCACTGAGTGGCGCGGCTGCTGATTGTGTTCTAAGGGTCGGAGTGGGGTCGAC
 GTTTGCTCTACCGGAACAGCTTAGCTCATTCTCCCTTTCCATTACCTGTGGCGGAGAGTTGGGGCGG
 CGGCTGCGTCAGCAAGGGCGGTGGTGGCGCGGCGGCGGCGGAGCTGCAGTGACATGTCCAGCATGAAT
 CCCGAATATGATTATTTATTCAAGTTACTTCTGATTGGCGATTCTGGGGTTGAAAAGTCCTGCCTCTCC
 TTAGGTTTGCAGATGATACGTATACGAAAAGCTACATCAGCACAATTGGTGTGGATTTCAAGATACGAAC
 TATAGAGTTAGATGGGAAAACAATCAAGCTACAGATATGGGACACAGCAGGCCAGGAAAGATTTGAAACA
 ATCACTCCAGTTATTACAGAGGAGCCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCTC
 TCAATAACGTTAAACAGTGGCTGCAGGAGATAGATCGCTACGCCAGTGAAAATGTCAACAAGTTGTTGGT
 AGGGAACAAATGTGACCTGACCACAAAGAAAGTAGTAGACTACACAACAGCAAAGGAATTTGCAGATTCC
 CTTGGAATTCATTTTTGGAAACAGTGCTAAGAACGCAACGAATGTAGAACAGTCTTTCATGACGATGG
 CAGCTGAGATTAAGGAAAGCAATGGGTCCTGGAGCTACAGCTGGTGGTGCCGAGAAGTCCAATGTTAAAT
 CCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGCTGCTGCTAAAACTGCCTCCGTCCTTTTCTCACAGC
 AATGAATTCGCAATCTGAACCAAGTAAAAACAATAATGCCTGAATTGTAAGTGTATGTAGCTGCACTA
 CAACAGATTTTACCGTTTCCACAAGGTGAGAGATTGTAATGGTCAATACTGACTTTTTTTTTTATTCC
 CTTGACTCAAGACCGCTAACTTCATTTTCAAGACTGTTTTAAACCTTTGTGTGCTGGTTATAAAAATAAT
 GTGTGTAATCCTTGTGCTTTCTGATACCAGATCGTTTCCCCTGGTTGGTTAGAATATATTTTGTTTTG
 ATGTTTATATTGGCATGTTTAGATGTTGGGTTTAGTCTTCTGAAGATGAAGTTCAGCCATTTTGTATCAC
 ACAGCACAAACAGTGTCTGTCAGTTTCCACGCATAAAGTTTAGTGAGACGTTATATGTAAGATCTGATT
 GCTAGTTCTTCTGGTAGAGTTATAAATGGAAAGATTACACTATCTGATTAATAGTTTCTTCATACTCTG
 CATATAATTTGTGGCTGCAGAATATTGTAATTTGTTGCACACTATGTAACAAAAGTGAAGATATGTTTAA
 TAAATATTGTAATTTGGAAGTAAATCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008996
Insert Size: 618 bp



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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:	BC002077 , AAH02077
RefSeq Size:	1444 bp
RefSeq ORF:	618 bp
Locus ID:	19324
UniProt ID:	P62821
Cytogenetics:	11 12.92 cM
Gene Summary:	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 sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB1A regulates vesicular protein transport from the endoplasmic reticulum (ER) to the Golgi compartment and on to the cell surface, and plays a role in IL-8 and growth hormone secretion. Regulates the level of CASR present at the cell membrane. Plays a role in cell adhesion and cell migration, via its role in protein trafficking. Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria (By similarity). Plays a role in microtubule-dependent protein transport by early endosomes and in anterograde melanosome transport.[UniProtKB/Swiss-Prot Function]