

Product datasheet for MC212128

Rab31 (NM_133685) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab31 (NM_133685) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab31
Synonyms:	1700093E07Rik; AI415285; Rab22B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212128 representing NM_133685 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGCGATACGGGAGCTCAAAGTGTGTCTTCTCGGGGACACGGGGTTGGGAAATCCAGCATTGTGT
 GTCGTTTTGTCCAGGATCACTTTGACCACAACATCAGCCCCACTATTGGGGCATCTTTCATGACCAAAAC
 CGTGCTTGTGGAAATGAACTTCACAAATTCCTCATCTGGGACACCGCTGGCCAGGAGCGGTTCCACTCC
 CTGGCTCCTATGTACTACCGAGGATCTGCTGCAGCCGTCATCGTCTATGACATCACTAAGCAGGATTCAT
 TTCATACCTTGAAAAATGGGTCAAGGAGCTGAAGGAGCACGGCCAGAAAAACATTGTGATGGCGATTGC
 TGGGAACAAGTGTGACCTCTCTGATATTAGGGAGGTGCCCTGAAGGACGCTAAGGAGTACGCTGAATCC
 ATAGGTGCCATCGTGGTGAGACCAGCGCGAAGAATGCCATTAACATCGAGGAGCTCTTTCAAGGAATCA
 GCCGCCAGATCCACCTTGGGCCCTCAGGAAAAATGGAACAGCGGCGGGATCAAGCTTGGGAATCAGAG
 CTTGCAAGCCAGCCGTCGGTGCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_133685
Insert Size:	588 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_133685.2</u> , <u>NP_598446.2</u>
RefSeq Size:	3476 bp
RefSeq ORF:	588 bp
Locus ID:	106572
UniProt ID:	<u>Q921E2</u>
Cytogenetics:	17 E1.1
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 set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. Required for the integrity and for normal function of the Golgi apparatus and the trans-Golgi network. Plays a role in insulin-stimulated translocation of GLUT4 to the cell membrane. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and Mycobacterium (By similarity). Plays a role in M6PR transport from the trans-Golgi network to endosomes. Plays a role in the internalization of EGFR from the cell membrane into endosomes.[UniProtKB/Swiss-Prot Function]