

Product datasheet for MR205981

Rab3il1 (NM_144538) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3il1 (NM_144538) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab3il1
Synonyms:	1200014K04Rik; AI115013; C76746; Rab3ail1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205981 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAGCGGCCAACCCCAACAAGACGAGGGCCTCCCTGTGGGCTCTCTGCTATCCCAGTCCCCTGGA
AAAACCTAGGCCCCAGCAAAAGTAACAGGGAGTCTCAGGAGGCCTGGTAGAAGCCTCCACTTCTGGGA
GGAGGCCAGGGTGAGGAACACCCGGCACCTGCTCCACTGGATGTGTACGCCTGCGCAGTTCTCCATG
GAGATCCGAGAGAAGGGCTCCGAGTTCTAAAGGAGGAGCTATACAAAGCCAGAAGGAGCTGAAGCTAA
AGGATGAAGAGTGTGAACGGCTTTGCAAAGTACGTGCACAGCTGGAGCAGGAGCTTGAGGAGCTGACAGC
CAGCCTGTTTGGGAAGCTCACAAAGATGGTTCCGGGAAGCCAACATGAAGCAGGCGACATCGGAAAAGCAG
TTGAAGGAGGCTTGGGGCAAGATCGACATGCTACAGGCAGAGGTGACAGCCTTGAAGACATTGGTCATCA
CATCCACACCAGCCTCTCCCAACCGTGAGCTCCACCCACAGCTGCTGAGCCCCACCAAAGCTGGACCCCG
AAAGGGCCACTCACGTCAAAGAGCACCAGCAGCTCCCTCTGCCCTGTTGTGCCCCACTGCAGGGCAT
ATCCCTACCCCTGACAAAGAAGGCAAGGAGGTGGATACGACGCTGTTTGCAGAGTTCCAAGCTTGGAGAG
CTTCACCTACCCCTGGATAAAGAGCTGCCCTTCTAGAAAGGGTGTACCGGAGGAGCTGGGCCCTTGCCCT
TGACTTCACAGTGCAGGAGCTCTCAGCTCTGGTTCGGACTGCTGTGGAGGACAACACACTCACCATTGAG
CCTGTGGCTTACAGACACTGCCCGCTGTGAAGGTGCCACTGTTGAGTGTAAACAACCAACACATGTG
CCCTGAGTGGCCTGGCAGGTACCTGCCACCATCGAATCCGCTGGGGGACTCTGACAGCCACTATTACAT
CTCACCGTCTCCGGGCCAGGATCACCGCAGTATGCAACTTCTTCACCTATATTCGCTACATCCAGCAA
GGTCTGGTTCGGCAGGATGCTGAGCCGATGTTCTGGGAGATCATGAGGCTTCGGAAGGGCATGCTACTAG
CCAAGCTTGGCTTCTTCCCCAGGAGGCC

ACGGTACGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205981 protein sequence
Red=Cloning site Green=Tags(s)

MWSGQPQQDEGLPVGLSAIPVPWKNLGPSKSNRESSGGLVEASTSWEEAQGEEHPAPAPLDVSRLRSSM
 EIREKGSSEFLKEELYKAQKELKLDDEECERLCKVRAQLEQELEELTASLFEEAHKMVREANMKQATSEKQ
 LKEAWGIDMLQAEVTALKTLVITSTPASPNNRELHPQLLSPTKAGPRKGHSRQKSTSSSLCPVVCPTAGH
 IPTPDKEGKEVDTLFAEFQAWRASPTLDKSCPFLERVYREDVGPCLDFTVQELSAVRTAVEDNLTIE
 PVASQTLPAVKVPTVECNNTNCALSGLARTCHHRIRLGDSDSHYIYIIPSSRARITAVCNFFTYIRYIQQ
 GLVRQDAEPMFWEIMRLRKGMSLAKLGFFPQEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_144538

ORF Size: 1152 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_144538.3](#)

RefSeq Size: 2320 bp

RefSeq ORF: 1152 bp

Locus ID: 74760

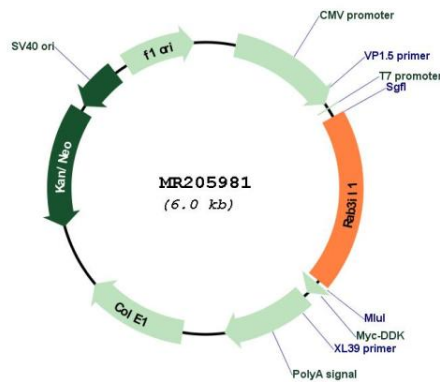
UniProt ID: [Q8VDV3](#)

Cytogenetics: 19 A

MW: 42.7 kDa

Gene Summary: Guanine nucleotide exchange factor (GEF) which may activate RAB3A, a GTPase that regulates synaptic vesicle exocytosis. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. May also activates RAB8A and RAB8B (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205981