

Product datasheet for MR221653

Rab5b (NM_177411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab5b (NM_177411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab5b
Synonyms:	C030027M18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221653 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTAGCAGAAGTACAGCCAGGCCCAATGGGCAACCCAGGCCAGCAAAATATGCCAGTTCAAATTGG
TCCTGCTGGGAGAGTCTGCAGTGGGGAAGTCTAGCCTGGTGTACGTTTTGTCAAAGGACAGTTCATGA
ATACCAGGAAAGCACCATTGGAGCGCCTTCTCACCCAATCCGTGTGTTAGATGACACAACAGTCAAG
TTTGAGATCTGGGACACTGCTGGCAGGAGCGATACCACAGTTTAGCCCTATGTACTACAGGGGTGCC
AGGCTGCAATCGTGGTCTATGATATTACTAATCAGGAAACGTTTGCTCGGCAAAGACATGGGTAAGGA
ACTACAGCGGCAAGCCAGCCCTAGCATTGTTATTGCCTTGGCAGGGAACAAGCTGACCTTGCCAACAAG
CGCATGGTGGAGTATGAAGAGGCTCAGGCATATGCAGATGACAACAGCTTATTATTTATGGAGACTTCAG
CTAAGACTGCTATGAACGTGAATGATCTCTTCTGGCAATAGCAAAGAAGTTGCCAAAGAGCGAACCCCA
GAATCTGGGGGTGCGGCAGGCCGAAGTCGGGTGTGGATCTTCATGAGCAGTCCAGCAGAACAAGAGC
CAGTGTGTAGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221653 protein sequence
 Red=Cloning site Green=Tags(s)

MTSRSTARPNQPPQASKICQFKLVLLGESAVGKSSLVLRVFKGQFHEYQESTIGAAFLTQSVCLDDTTVK
 FEIWDTAGQERYHSLAPMYRGAQAAIVVYDITNQETFARAKTWVKELQRQASPSIVIALAGNKADLANK
 RMVEYEEAQAYADDNLLFMETSAKTAMNVNDLFLAIAKKLPKSEPQNLGGAAGRSRQVLDLHEQSQQNK
 QCCSN

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_177411

ORF Size: 648 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_177411.4](#), [NP_803130.1](#)

RefSeq Size: 3180 bp

RefSeq ORF: 648 bp

Locus ID: 19344

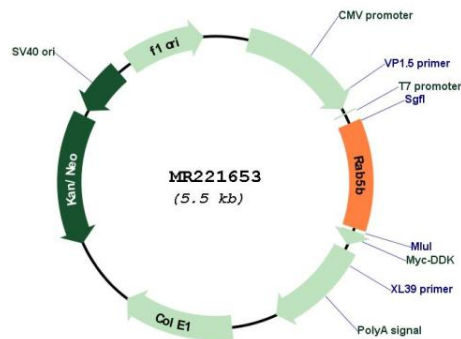
UniProt ID: [P61021](#)

Cytogenetics: 10 D3

MW: 23.7 kDa

Gene Summary: Protein transport. Probably involved in vesicular traffic (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221653