

Product datasheet for **RC224288**

RAB5C (NM_004583) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB5C (NM_004583) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB5C
Synonyms:	L1880; RAB5CL; RAB5L; RABL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224288 representing NM_004583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGTCGGGGAGGCGCAGCACGACCCAATGGACCAGCTGCTGGGAACAAGATCTGTCAATTTAAGC
TGGTTCTGCTGGGGAGTCTGCGGTAGGCAAATCCAGCCTCGTCCTCCGCTTTGTCAAGGGACAGTTTCA
CGAGTACCAGGAGAGCACAATTGGAGCGGCCTTCCTCACACAGACTGTCTGCCTGGATGACACAACAGTC
AAGTTTGAGATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCATGACTATCGGGGGG
CCCAGGCTGCCATCGTGGTCTATGACATACCAACACAGATACATTTGCACGGGCCAAGAAGTGGGTGAA
GGAGCTACAGAGGCAGGCCAGCCCAACATCGTCATTGCACTCGCGGGTAACAAGGCAGACTGGCCAGC
AAGAGAGCCGTGGAATCCAGGAAGCACAGCCTATGCAGACGACAACAGTTTGTCTGTTTATGGAGACAT
CAGCAAAGACTGCAATGAACGTGAACGAAATCTTCATGGCAATAGCTAAGAAGCTTCCCAAGAACGAGCC
CCAGAAATGCAACTGGTGCTCCAGGCCGAAACCGAGGTGTGGACCTCCAGGAGAACAACCCAGCCAGCCGG
AGCCAGTGCTGCAGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224288 representing NM_004583
Red=Cloning site Green=Tags(s)

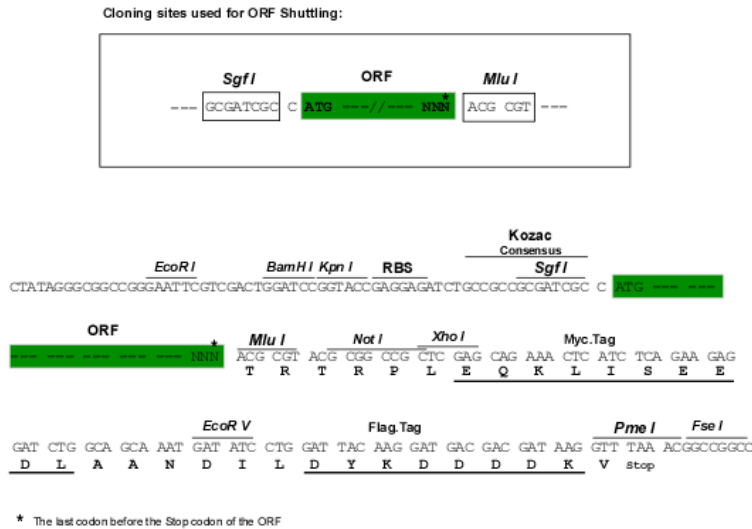
MAGRGGGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRVVKGQFHEYQESTIGAAFLTQTVCLDDTTV
 KFEIWDTAGQERYHSLAPMYRGAQAAIVVYDITNTDTFARAKNWKELQRQASPNIVIALAGNKADLAS
 KRAVEFQEAQAYADDNSLLFMETSAKTAMNVNEIFMAIAKKLPKNEPQNATGAPGRNRGVLDLQENNPASR
 SQCCSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1433_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004583

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_004583.4](#)

RefSeq Size: 1702 bp

RefSeq ORF: 651 bp

Locus ID: 5878

UniProt ID: [P51148](#)

Cytogenetics: 17q21.2

Domains: ras, RAN, RAS, RHO, RAB

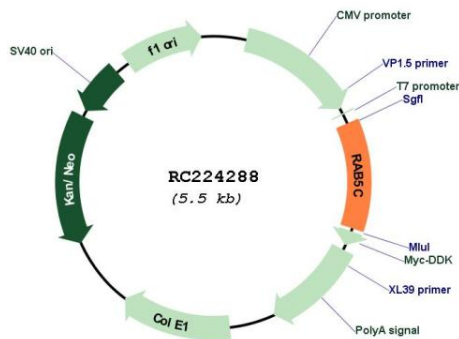
Protein Families: Druggable Genome

Protein Pathways: Endocytosis

MW: 23.5 kDa

Gene Summary: Members of the Rab protein family are small GTPases of the Ras superfamily that are thought to ensure fidelity in the process of docking and/or fusion of vesicles with their correct acceptor compartment (Han et al., 1996 [PubMed 8646882]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RC224288