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Product datasheet for RC228120

RAB37 (NM_001163990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB37 (NM_001163990) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228120 representing NM_001163990
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGGCACGCCAGGCGCCGTTGCCACCCGGGATGGCGAGGCCCCCGAGCGCTCCCCGCCCTGCAGTC
CGAGCTACGACCTCACGGGCAAGAACAAGGTGGTGACTGTGGATGGCGTGAGAGTGAAGCTGCAGATCTG
GGACACCGCTGGGCAGGAACGGTTCCGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCCTTGCTT
CTGCTGTATGACATCACCAACAAATCTTCTTTCGACAACATCAGGGCCTGGCTCACTGAGATTCATGAGT
ATGCCCAGAGGGACGTGGTGATCATGCTGCTAGGCAACAAGGCGGATATGAGCAGCGAAAGAGTGATCCG
TTCCGAAGACGGAGAGACCTTGGCCAGGGAGTACGGTGTTCCCTTCCTGGAGACCAGCGCCAAGACTGGC
ATGAATGTGGAGTTAGCCTTTCTGGCCATCGCCAAGGAACTGAAATACCGGGCCGGGCATCAGGCGGATG
AGCCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAGAAGAAGCGCTCCAGCTGCTGCTCCTTCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228120 representing NM_001163990
Red=Cloning site Green=Tags(s)

MTGTPGAVATRDGEAPERSPPCSPSYDLTGKNKVVTVDGVRVKLQIWDTAGQERFRSVTHAYYRDAQALL
LLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLLGNKADMSSERVIRSEDGETLAREYGVPFLETSAKTG
MNVELAFLAIAKELKYRAGHQADEPSFQIRDYVESQKKRSSCCSFM

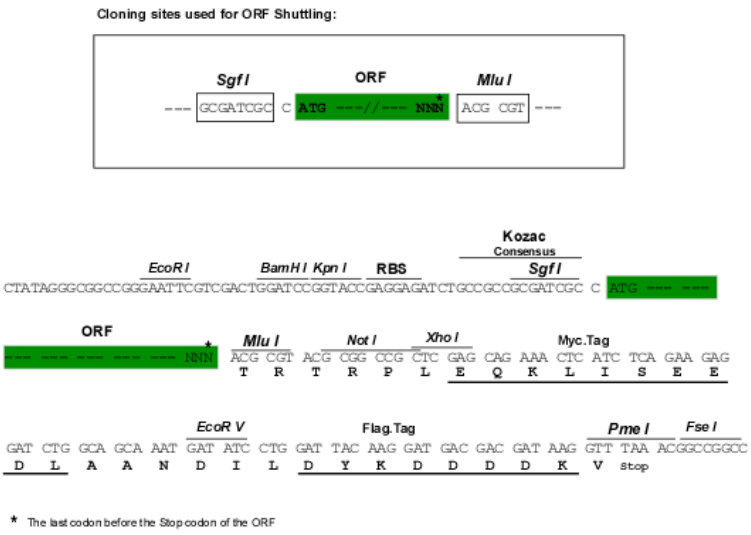
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1457_b03.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_001163990

ORF Size: 558 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_001163990.2

RefSeq ORF: 561 bp

Locus ID: 326624

UniProt ID: Q96AX2

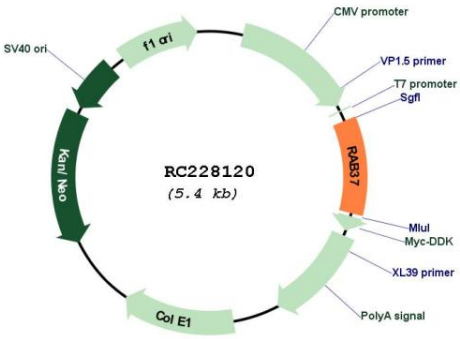
Cytogenetics: 17q25.1

Protein Families: Druggable Genome, Secreted Protein

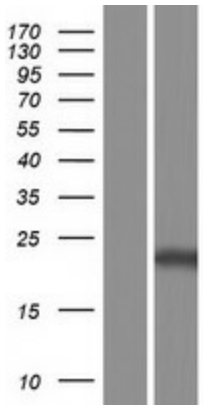
MW: 20.7 kDa

Gene Summary: Rab proteins are low molecular mass GTPases that are critical regulators of vesicle trafficking. For additional background information on Rab proteins, see MIM 179508.[supplied by OMIM, Apr 2006]

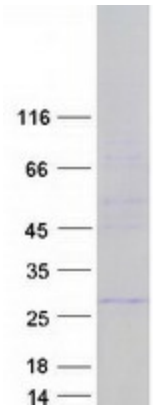
Product images:



Circular map for RC228120



Western blot validation of overexpression lysate (Cat# [LY431148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228120 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB37 protein (Cat# [TP328120]). The protein was produced from HEK293T cells transfected with RAB37 cDNA clone (Cat# RC228120) using MegaTran 2.0 (Cat# [TT210002]).