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Product datasheet for RC204318

RAB30 (NM_014488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB30 (NM_014488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204318 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTATGGAAGATTATGATTTCCTGTTCAAAATTGTTTTAATTGGCAACGCTGGTGTGGGGAAGACGT
GCCTCGTCCGAAGATTCACTCAGGGTCTTTTCCCCCCAGGTCAAGGAGCCACAATTGGAGTTGATTTTAT
GATTAAGACAGTGGAGATTAATGGTGAAAAAGTAAAGCTACAGATCTGGGACACAGCAGGTCAAGAGAGA
TTTCGGTCCATTACCCAGAGTTACTACCGAAGCGCCAATGCCTTGATCCTCACCTATGACATTACCTGTG
AGGAATCCTTCCGTTGCCTTCCTGAGTGGCTGCGGGAGATAGAACAATATGCCAGCAACAAGGTCATCAC
TGTGTTAGTGGGCAACAAGATTGACCTGGCTGAAAGGAGAGAGGTTTCCCAGCAGCGAGCTGAAGAATTC
TCAGAAGCTCAGGACATGTATTATCTGGAGACCTCAGCCAAGGAATCTGATAATGTGGAGAAACTCTTCC
TTGACTTAGCATGCCGACTCATCAGTGAAGCCAGACAGAACACACTTGTGAACAATGTATCCTCACCCTT
ACCTGGAGAAGGGAAAAGCATCAGCTATTTGACTTGTTGTAATTTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204318 protein sequence
Red=Cloning site Green=Tags(s)

MSMEDYDFLFKIVLIGNAGVGKTCLVRRFTQGLFPPGQGATIGVDFMIKTVEINGEKVKLQIWDTAGQER
FRSITQSYYRSANALILTYDITCEESFRCLPEWLREIEQYASNKVITVLVGNKIDLAERREVSQQRAEEF
SEAQDMYYLETSAKESDNVEKLFLDLACRLISEARQNTLVNNVSSPLPGEGKSISYLTCCNFN

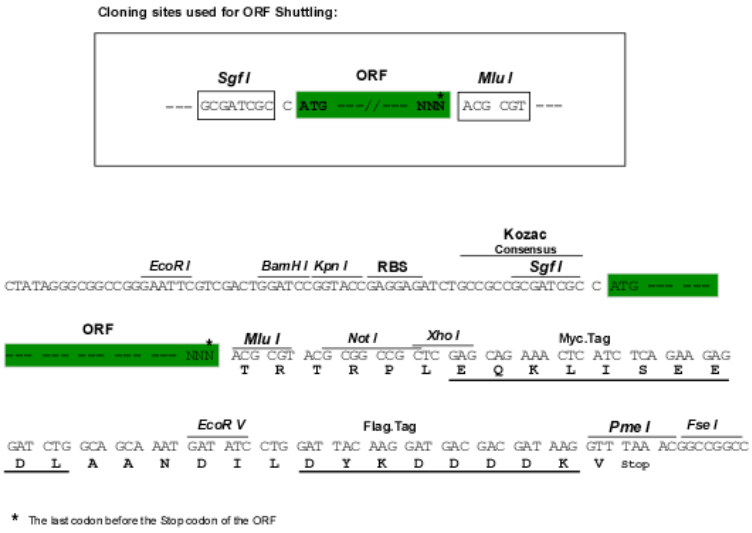
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6430_d08.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014488

ORF Size: 609 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

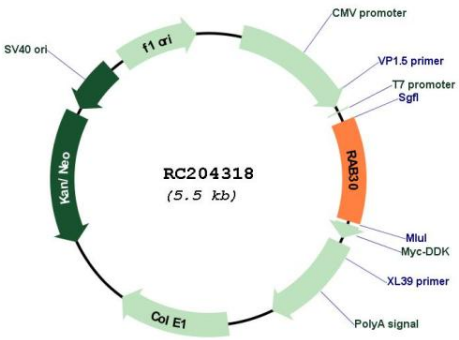
RefSeq: NM_014488.5

RefSeq Size: 9986 bp

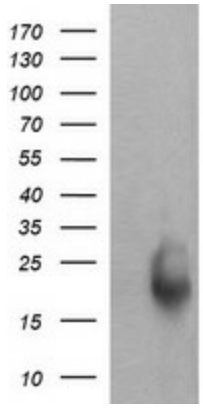
RefSeq ORF: 612 bp

Locus ID:	27314
UniProt ID:	Q15771
Cytogenetics:	11q14.1
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
MW:	23.1 kDa
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 (By similarity). Required for maintaining the structural integrity of the Golgi apparatus, possibly by mediating interactions with cytoplasmic scaffolding proteins. [UniProtKB/Swiss-Prot Function]

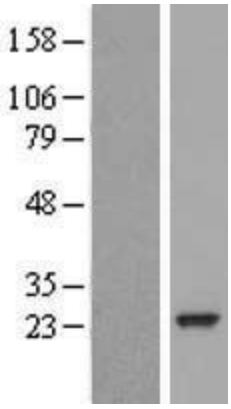
Product images:



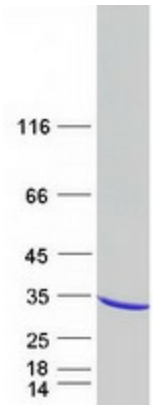
Circular map for RC204318



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RAB30 (Cat# RC204318, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RAB30(Cat# [TA505344]). Positive lysates [LY415246] (100ug) and [LC415246] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415246]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204318 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB30 protein (Cat# [TP304318]). The protein was produced from HEK293T cells transfected with RAB30 cDNA clone (Cat# RC204318) using MegaTran 2.0 (Cat# [TT210002]).