

Product datasheet for MR202099

Rab30 (NM_029494) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab30 (NM_029494) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab30
Synonyms: 5033421K01Rik; AI323892; Rsb30
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202099 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTATGGAAGATTATGATTTCTGTTCAAATTTGTTTTAATTGGCAACGCTGGAGTGGGAAAGACGT
 GCCTAGTCCGAAGATTCAGGCTCTTTTCCCCCAGGTCAAGGAGCCACAATTGGAGTTGATTTTAT
 GATTAAGACAGTGGAGATTAATGGTGAAAAAGTGAAGTTACAGATCTGGGACACCGCAGGTCAAGAGAGA
 TTTGCTCCATCACTCAAAGTTACTATCGAAGCGCAATGCCTTGATCCTTACCTATGACATCACCTGTG
 AGGAATCCTTCCGCTGCCTTCTGAGTGGTTGCGGGAGATAGAACAGTATGCTAGCAATAAAGTCATCAC
 TGTGTTAGTAGGCAACAAGATTGACCTGGCTGAAAGGCGAGAGGTCTCCAGCAGAGAGCAGAAGAGTTC
 TCAGAGGCTCAGGACATGTATTACCTGGAGACTTCAGCCAAGGAATCCGACAATGTGGAGAACTCTTCC
 TTGACTTAGCATGCCGACTCATCAGCGAAGCAAGACAGAACACACTGGTGAACAATGTATCGTCACCCTT
 ACCCGGAGAGGGGAAAAGCATCAGCTATTTGACTTGTGTAATTTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202099 protein sequence
 Red=Cloning site Green=Tags(s)

MSMEDYDFLFKIVLIGNAGVGKTCVRRFTQGLFPPGQGATIGVDFMIKTVEINGEKVKLQIWDTAGQER
 FRSITQSYRSANALILTYDITCEESFRCLPEWLREIEQYASNKVITVLVGNKIDLAERREVSQRAEEF
 SEAQDMYYLETSAKESDNVEKFLDLACRLISEARQNTLVNNVSSPLPGEKGSISYLTCCNFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029494

ORF Size: 612 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_029494.2](#), [NP_083770.2](#)

RefSeq Size: 2007 bp

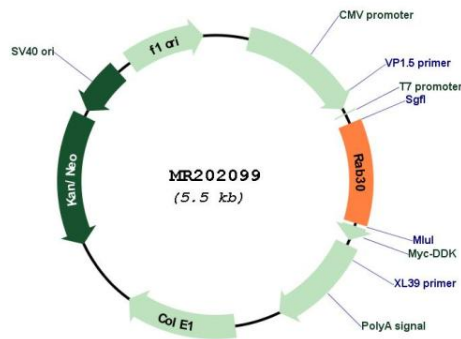
RefSeq ORF: 612 bp

Locus ID: 75985

UniProt ID: [Q92359](#)

Cytogenetics:	7 E1
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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202099