

Product datasheet for **RR204454**

Rab34 (NM_001012140) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab34 (NM_001012140) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab34
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204454 representing NM_001012140
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATTCTGGCCCCGTGCGGAGGGACCGCGTCCTGGCGGAGCTGCCCCAGTGCCTGAAGAAGGAGG
CCGCTTTGCACGTGCGCAAAGACTTCCACCCCGGGTCACTTGCCTGCCAGGAGCACCGGACAGGCAC
CGTGGGATTTAAAATATCCAAGGTCATCGTTGTGGGGACCTATCTGTGGGAAGACCTGTCTTATAAT
AGGTTCTGCAAAGACACCTTCGATAAAGAATTACAAGGCTACCATCGGAGTGGATTTTGGATGGAACGAT
TTGAAGTCTTGGGTGTCCTTCACTCTCCAACCTTGGGACACTGCTGGTCAGGAGAGGTTCAAGTGCAT
CGCTTCCACCTACTACAGAGGAGCACAAGCCATCATCATTGTCTTCAACCTGAATGACGTGGCATCCCTG
GAACACTCCAAGCAGTGGCTCGCTGATGCCCTCAAGGAGAATGACCCTTCCAACGTGCTTCTCTTCTTG
TGGTTCCAAGAAGGATCTGAGTACTCCTGCTCAGTATTCCTAATGGAGAAGGATGCCCTCAAGGTGGC
CCAAGAGATTAAGGCTGAGTATTGGTCAGTGTCTCCCTCACAGGTGAGAACGTCGGGAATTCTTCTTC
CGTGTGGCAGCGCTAACCTTTGAGGCCAATGTCCTGGCTGAACCTGGAGAAATCGGGATCTCGGCACATTG
GGGATGTTGTTTCGCATCAACAGCGATGACAAAACTGTACCTAACTGCCAGCAAGAAAAAGGCCACATG
TTGTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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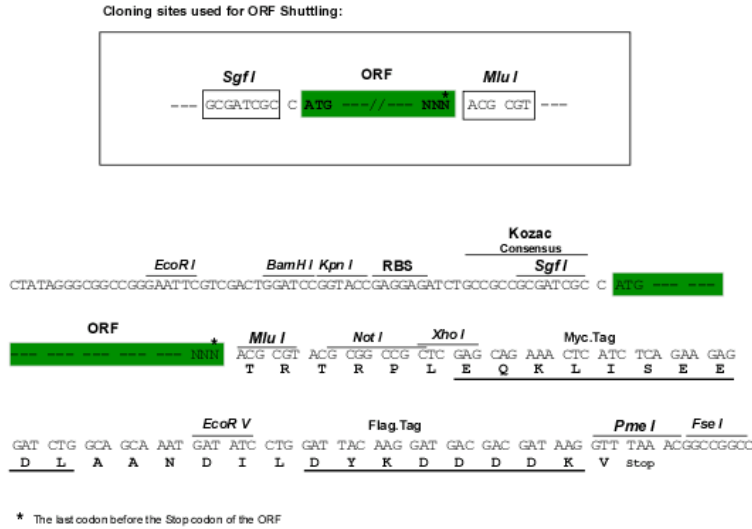
Protein Sequence: >RR204454 representing NM_001012140
 Red=Cloning site Green=Tags(s)

MNILAPVRRDRVLAELPQCLKKEAALHVRKDFHPRVTCACQEHRTGTVGFKISKVIVVGDLSVGKTCLIN
 RFCKDFTDKNYKATIGVDFEMERFEVLGVPFSLQLWDTAGQERFKCIASYRGAQAIIVFNLNDVASL
 EHSKQWLADALKENDPSNVLLFLVGSKKDLSTPAQYSLMEKDALKVAQEIKAEYWSVSSLTGENVREFFF
 RVAALTFEANVLAELKSGSRHIGDVVRINSDDKNLYLTASKKKATCCP

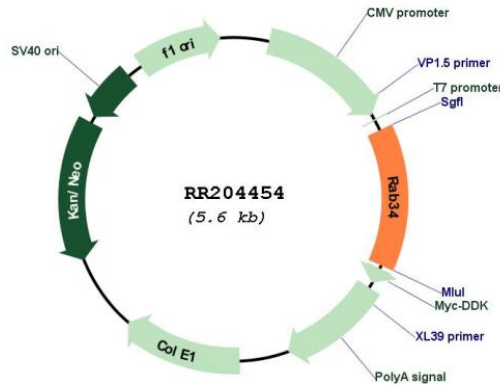
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012140

ORF Size: 777 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:	<ol style="list-style-type: none">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_001012140.1 , NP_001012140.1
RefSeq Size:	1326 bp
RefSeq ORF:	780 bp
Locus ID:	360571
UniProt ID:	Q5U1Y1
Cytogenetics:	10q25
MW:	29.1 kDa
Gene Summary:	Protein transport. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and Mycobacterium. Plays a role in the fusion of phagosomes with lysosomes. Involved in the redistribution of lysosomes to the peri-Golgi region. Acts also as a positive regulator of hedgehog signaling and regulates ciliary function.[UniProtKB/Swiss-Prot Function]