

Product datasheet for **RR202140**

Rab7a (NM_023950) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab7a (NM_023950) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab7a
Synonyms: Rab7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202140 representing NM_023950
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCTCTAGGAAGAAAGTGTGCTGAAGGTCATCATCCTGGGAGACTCTGGTGTGGAAAGACATCGC
 TCATGAACCAAGTATGTGAATAAGAAGTTCAGTAACCAAGTACAAAGCCACAATAGGAGCAGACTTTCTGAC
 CAAGGAGGTGATGGTGGATGACAGACTTGTACCATGCAGATCTGGGACACAGCTGGTCAAGAACGGTTC
 CAGTCTCTTGGTGTGGCCTTCTACAGAGGTGCAGATTGCTGCGTTCTGGTGTGGTGTGACTGCCCCCA
 ACACATTCAAAACCCCTTGACAGCTGGAGAGACGAGTTTCTCATCCAGGCCAGCCCCGGGATCCTGAGAA
 CTTCCCTTTTGTGTGTTGGGAAACAAGATTGACCTGGAAAACAGACAAGTGGCCACAAAGAGGGCACAG
 GCTTGGTGTACAGCAAAAACAACATTCCTTACTTCGAGACCAGTCCAAGGAGGCCATCAATGTGGAAC
 AGGCCTTCAGACAATTGCTCGGAATGCCCTTAAACAGGAAACGGAAGTGGAGCTGTACAATGAATCCC
 TGAACCCATCAAACCTGGACAAGAACGAGCGGGCCAAGGCCTCCGAGAGAGCTGCAGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202140 representing NM_023950
 Red=Cloning site Green=Tags(s)

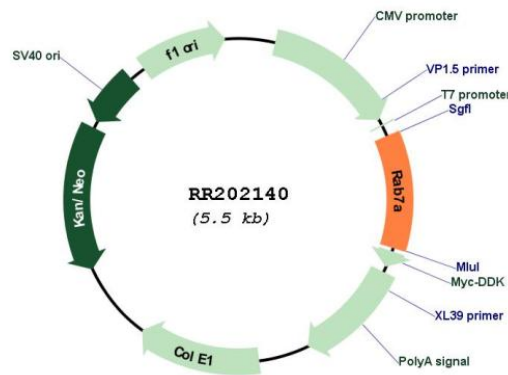
MTSRKKVLLKVIILGDSGVGKTSLMNQYVNNKFSNQYKATIGADFLTKEVMVDDRLVTMQIWDTAGQERF
 QSLGVAFYRGADCCVLVFDVTPNTFKTLDSWRDEFLLIQASPRDPENFPFVVLGNKIDLENRQVATKRAQ
 AWCYSKNNIPYFETSAKEAINVEQAFQTIARNALKQETEVELYNEFPEPIKLDKNERAKASAESCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_023950

ORF Size: 621 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_023950.3](#), [NP_076440.1](#)

RefSeq Size: 2107 bp

RefSeq ORF: 624 bp

Locus ID: 29448

UniProt ID: [P09527](#)

Cytogenetics: 4q34

MW: 23.5 kDa

Gene Summary: plays a role in osteoclast polarization and bone resorption during skeletal growth and remodeling [RGD, Feb 2006]