

Product datasheet for **RC221822**

RABGGTA (NM_004581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABGGTA (NM_004581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RABGGTA
Synonyms:	PTAR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC221822 representing NM_004581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACGGACGCCTGAAGGTGAAGACGTCAGAAGAGCAGGCGGAGGCCAAAAGGCTAGAGCGAGAGCAGA
 AGCTGAAGCTATACCAGTCAGCCACCCAGGCCGATTCCAGAAGCGCCAGGCTGGTGAGCTGGATGAGTC
 CGTGCTGGAAGTACAAGCCAGATTCTGGGAGCCAACCCCTGATTTTGCCACCCTCTGGAAGTCCCGACGA
 GAGGTGCTCCAGCAGCTGGAGACTCAGAAGTCTCCTGAAGAGTTGGCTGCTCTGGTGAAGGCAGAAGTGG
 GCTTCTGGAGAGCTGCCTGCGGGTGAACCCCAAGTCTTATGGTACCTGGCACCACCGATGCTGGCTGCT
 AGGCCGCCTGCCTGAGCCCAACTGGACCCGAGAGCTGGAGCTCTGTGCCCGTTTCTGGAGGTGGATGAG
 CGGAACCTTCACTGCTGGGACTATCGGCGGTTTGTGGCCACACAGGCAGCCGTCGCCCTGCAGAAGAGC
 TAGCCTTCACTGACAGCCTCATACCCGAAACTTCTCAACTACTTCTTCTGGCATTACCGCTCCTGTCT
 CTTGCCCCAGCTGCACCCAGCCGGATTCTGGACCACAGGGGCGCTCCCTGAGGATGTGCTGCTCAA
 GAGCTGGAGCTGGTGCAGAAATGCCTTCTCACTGACCCCAATGACCAGAGTGCCTGGTTTTATCACCGTT
 GGCTCCTAGGCCGAGCTGACCCCAAGGATGCACTGCGCTGCCTGCATGTGAGCCGGGACGAGGCCTGCT
 GACTGTCTCCTTCTCGGCCCTCTTAGTGGGCTCCAGGATGGAGATCTTGCTGCTCATGGTTGATGAT
 TCTCCCTGATTGTGGAGTGGAGGACCCAGATGGCAGGAACCGGCCAGCCATGTCTGGCTCTGTGACC
 TGCTGCTGCCTCCCTCAACGACCAGTTGCCCAACATACATTTTCGCGTCATTTGGACAGCAGGCAGTGT
 CCAGAAAGAAATGCGTGCTTTTAAAAGGCCGCCAGGAGGGCTGGTGCCGGGACTCCACGACAGACGAGCAG
 CTATTCAAGGTGTGAGCTGTCAGTGGAGAAGTCCACAGTGTGCTGAGCTGGAATCCTGTAAGGAGC
 TGCAGGAGCTGGAGCCTGAGAATAAATGGTGCCTGCTTACCATCATCTGCTGATGCGGGCAGTGCACCC
 CCTGCTGTATGAGAAGGAGACCCTGCAGTACTTCCAGACCCTCAAGGCCGTGGACCCATGCGGGCAACG
 TATCTGGATGACCTGCGCAGCAAGTCTTGTGGAGAATAGCGTGTCAAGATGGAGTATGCCGAGGTGC
 GTGTGCTGCACCTGGCTCACAAGGATCTGACAGTGTCTGCCATCTGGAACAGCTGCTCTTGGTACCCCA
 TCTTGACTTGTACACAATCGCCTCCGAACCTGCCACCTGCACTGGCTGCCCTGCGCTGCCTTGAAGGTG
 CTGCAGGCCAGTGATAATGCCATAGAGTCCCTGGACGGCGTCACCAACCTACCCCGGCTGCAGGAGCTGC
 TACTGTGCAACAACCGCCTCCAGCAGCCTGCAGTGTCCAGCCTTTCCTCCTGCCCCAGGCTGGTCTCT
 CCTCAACCTGCAGGTAACCCGCTGTGCCAAGCGGTGGGCATCTTGGAGCAACTGGCTGAACTGCTGCCT
 TCAGTTAGCAGCGTCTCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221822 representing NM_004581
 Red=Cloning site Green=Tags(s)

MHGRLKVKTSEEQAEAKRLEREQKLLYQSATQAVFQKRQAGELDESIVLELTSQILGANPDFATLWNCRR
 EVLQQLETQKSPEELAALVKAELGFLESCLRVNPKSYGTWHHRCWLLGRLPEPNWTRLELCARFLEVDE
 RNFHCWDYRRFVATQAAVPPAEELAFDLSLITRNFSNYSWHYRSCLLPQLHPQPDSPGQGRLPEDVLLK
 ELELVQNAFFTPNDQSAWFYHRWLLGRADPQDALRCLHVSDEACLTVSFSRPLLVGSRMEILLMVDD
 SPLIVEWRTPDGRNRP SHVWLCDLPAASLNDQLPQHTFRVIWTAGDVQKECVLLKGRQEGWCRDSTTDEQ
 LFRCELVEKSTVLQSELESCKELQELEPENKWCLLTIILLMRALDPLL YEKETLQYFQTLKAVDPMRAT
 YLDDLRSKFLENSVLKMEYAEVRVHLAHKDLTVLCHLEQLLLVTHLDLSHNRLRTLPPALAALRCLEV
 LQASDNATIESLDGVTNLPRLQELLLCNRLQQPAVLQPLASCPRLVLLNLQGNPLCQAVGILEQLAELLP
 SVSSVLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6101_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004581

ORF Size: 1701 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_004581.5](#)

RefSeq Size: 2218 bp

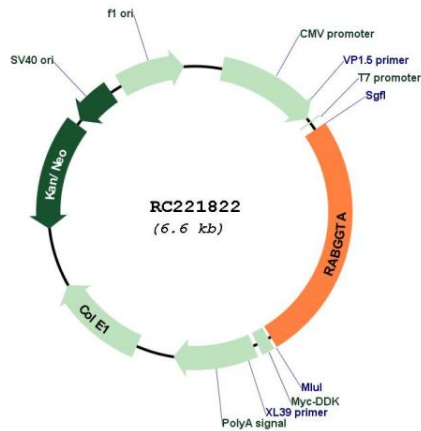
RefSeq ORF: 1704 bp

Locus ID: 5875

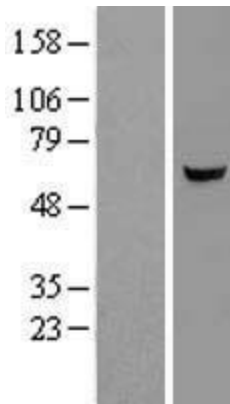
UniProt ID: [Q92696](#)

Cytogenetics: 14q12

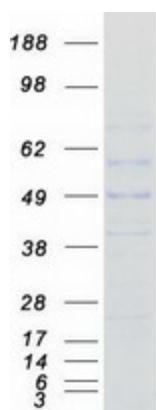
Domains: LRR, PPTA
Protein Families: Druggable Genome
MW: 64.9 kDa
Gene Summary: Catalyzes the transfer of a geranylgeranyl moiety from geranylgeranyl diphosphate to both cysteines of Rab proteins with the C-terminal sequence -XXCC, -XCXC and -CCXX, such as RAB1A, RAB3A, RAB5A and RAB7A.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RC221822



Western blot validation of overexpression lysate (Cat# [LY417891]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221822 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RABGGTA protein (Cat# [TP321822]). The protein was produced from HEK293T cells transfected with RABGGTA cDNA clone (Cat# RC221822) using MegaTran 2.0 (Cat# [TT210002]).