

Product datasheet for **RG221822**

RABGGTA (NM_004581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABGGTA (NM_004581) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RABGGTA
Synonyms:	PTAR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG221822 representing NM_004581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGGACGCCTGAAGGTGAAGACGTCAGAAGAGCAGGCGGAGGCCAAAAGGCTAGAGCGAGAGCAGA
 AGCTGAAGCTATACCAGTCAGCCACCCAGGCCGTATTCCAGAAGCGCCAGGCTGGTGAGCTGGATGAGTC
 CGTGCTGGAAGTACAAGCCAGATTCTGGGAGCCAACCCCTGATTTTGCCACCCTCTGGAAGTCCCGACGA
 GAGGTGCTCCAGCAGCTGGAGACTCAGAAGTCTCCTGAAGAGTTGGCTGCTCTGGTGAAGGCAGAACTGG
 GCTTCTGGAGAGCTGCCTGCGGGTGAACCCCAAGTCTTATGGTACCTGGCACCACCGATGCTGGCTGCT
 AGGCCGCCTGCCTGAGCCCAACTGGACCCGAGAGCTGGAGCTCTGTGCCCGTTTCTGGAGGTGGATGAG
 CGGAACCTTCACTGCTGGGACTATCGGCGGTTTGTGGCCACACAGGCAGCCGTGCCCCCTGCAGAAGAGC
 TAGCCTTCACTGACAGCCTCATCACCCGAACTTCTCCAACACTCTTCTGGCATTACCGCTCCTGTCT
 CTTGCCCCAGCTGCACCCCGAGCCGATTCTGGACCACAGGGGCGCTCCCTGAGGATGTGCTGCTCAA
 GAGCTGGAGCTGGTGCAGAAATGCCTTCTCACTGACCCCAATGACCAGAGTGCCTGGTTTTATCACCGTT
 GGCTCCTAGGCCGAGCTGACCCCGAGGATGCACTGCGCTGCCTGCATGTGAGCCGGGACGAGGCCTGCT
 GACTGTCTCCTTCTCGGCCCTCTTAGTGGGCTCCAGGATGGAGATCTTGCTGCTCATGGTTGATGAT
 TCTCCCTGATTGTGGAGTGGAGGACCCAGATGGCAGGAACCGGCCAGCCATGTCTGGCTCTGTGACC
 TGCTGCTGCCTCCCTCAACGACCAGTTGCCCAACATACATTTTCGCGTCATTTGGACAGCAGGCGATGT
 CCAGAAAGAAATGCGTGCCTTTAAAAGGCCGCCAGGAGGGCTGGTGCCGGGACTCCACGACAGACGAGCAG
 CTATTACGGTGTGAGCTGTCAGTGGAGAAGTCCACAGTCTGCAGTCTGAGCTGGAATCCTGTAAGGAGC
 TGCAGGAGCTGGAGCCTGAGAATAAATGGTGCCTGCTTACCATCATCTGCTGATGCGGGCACTGGACCC
 CCTGCTGTATGAGAAGGAGACCCTGCAGTACTTCCAGACCCTCAAGGCCGTGGACCCCATGCGGGCAACG
 TATCTGGATGACCTGCGCAGCAAGTTCTTGTGGAGAATAGCGTCTCAAGATGGAGTATGCCGAGGTGC
 GTGTGCTGCACCTGGCTCACAAGGATCTGACAGTCTCTGCCATCTGGAACAGCTGCTCTTGGTACCCCA
 TCTTGACTTGTACACAATCGCCTCCGAACCTGCCACCTGCACTGGCTGCCCTGCGCTGCCTTGAGGTG
 CTGCAGGCCAGTGATAATGCCATAGAGTCCCTGGACGGCGTCACCAACCTACCCCGGCTGCAGGAGCTGC
 TACTGTCAACAACCGCCTCCAGCAGCCTGCAGTCTCCAGCCTCTTGCCTCTGCCCCAGGCTGGTCTCT
 CCTCAACCTGCAGGGTAACCCGCTGTGCCAAGCGGTGGGCATCTTGGAGCAACTGGCTGAACTGCTGCCT
 TCAGTTAGCAGCGTCTCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221822 representing NM_004581
 Red=Cloning site Green=Tags(s)

MHGRLKVKTSEEQAEAKRLEREQKLLKYQSATQAVFQKRQAGELDESIVLELTSQILGANPDFATLWNCRR
 EVLQQLETQKSPEELAALVKAELGFLESLRVNPKSYGTWHHRCWLLGRLPEPNWTRLELCARFLEVDE
 RNFHCWDYRRFVATQAAVPPAEELAFDLSLITRNFSNYSSWHYRSCLLPQLHPQPDSPGQGRLPEDVLLK
 ELEVQNAFFTDPNQSAWFYHRWLLGRADPQDALRCLHVSDEACLTVSFSRPLLVGSRMEILLMVDD
 SPLIVEWRTPDGRNRPSHWLWCDLPAASLNDQLPQHTFRVIWTAGDVQKECVLLKGRQEGWCRDSTTDEQ
 LFRCELVEKSTVLQSELESCKELQELEPENKWCLLTIILLMRALDPLL YEKETLQYFQTLKAVDPMRAT
 YLDDLRSKFLLNSVLKMEYAEVRVHLAHKDLTVLCHLEQLLVTHLDL SHNRLRTLPPALAALRCLEV
 LQASDNAIESLDGVTNLPRQLQELLLCNNRLQPPAVLQPLASCPRLVLLNLQGNPLCQAVGILEQLAELLP
 SVSSVLT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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](#)

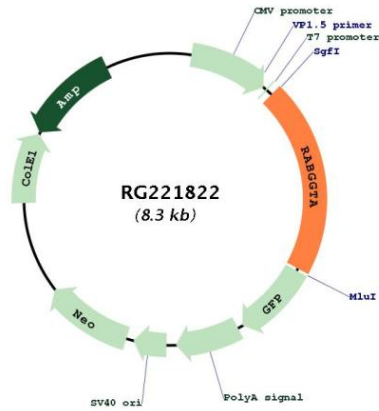
Cytogenetics: 14q12

Domains: LRR, PPTA

Protein Families: Druggable Genome

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 RG221822