

Product datasheet for **RG219234**

Rhotekin 2 (RTKN2) (NM_145307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhotekin 2 (RTKN2) (NM_145307) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rhotekin 2
Synonyms:	bA531F24.1; PLEKHK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219234 representing NM_145307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGGGGCGGAGCCTGAGGGGTCTGCGCTCCGCTGGCGGGGCTTCCACCCAGCAGGACTGCAACA
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 AAATCTTGCCTGCCAGGAGAAATAGATTAAGTGTGGTGGACACACAGACACTAAACCAATTTTGAAG
 CCAAGCCAGTGCCAGCTCCAAGCAGAAATCCATCAAGACATTCTGGACCTAGATCATGGCTGCAGGC
 ACAAGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219234 representing NM_145307
 Red=Cloning site Green=Tags(s)

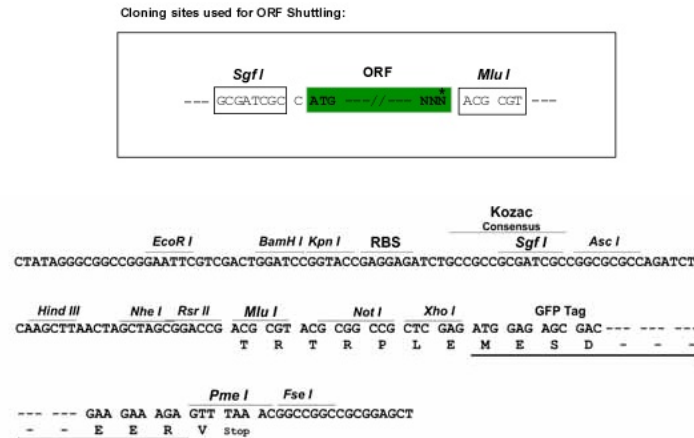
MEGPSLRGPALRLAGLPTQQDCNIQEKIDLEIRMREGIWKLLSLSTQKDQVLHAVKNLMVCNARLMAYTS
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 TKEATSVYHDMSIDSPMKLESLTDIIQKKIEETNGQFLIGQHEESLPPPWATLFDGNHQMVIQKKVLYPA
 SEPLHDEKGGKRQAPLPPSKLPSLKSQSNTDQLVKDNWGKTSVSQTSSTDTKLSTLMHHLQKPMAPR
 KLLPARRNRLSDGEHTDTKTNFEAKVPAPRQKSIKDILDPRSWLQAQV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_145307

ORF Size: 1827 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_145307.4](#)

RefSeq Size: 6659 bp

RefSeq ORF: 1830 bp

Locus ID: 219790

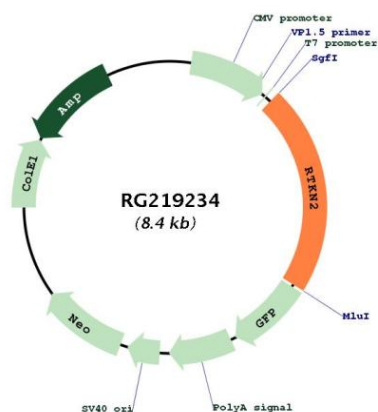
UniProt ID: [Q8IZC4](#)

Cytogenetics: 10q21.2

Domains: PH

Gene Summary: May play an important role in lymphopoiesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219234