

Product datasheet for **RC219234**

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:	Myc-DDK
Symbol:	Rhotekin 2
Synonyms:	bA531F24.1; PLEKHK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC219234 representing NM_145307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

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 ACAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219234 representing NM_145307
 Red=Cloning site Green=Tags(s)

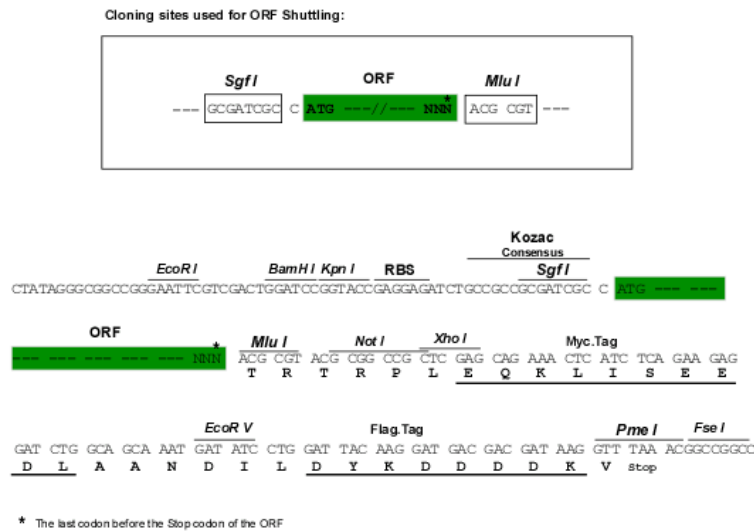
MEGPSLRGPALRLAGLPTQQDCNIQEKIDLEIRMREGIWKLLSLSTQKDQVLHAVKNLMVCNARLMAYTS
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 TKEATSVYHMSIDSPMKLESLTDIIQKKIEETNGQFLIGQHEESLPPPWATLFDGNHQMVIQKKVLYPA
 SEPLHDEKGGKRQAPLPPSKLPFSLKSQSNLDQLVKDNWGKTSVSQSSLDTKLSTLMHHLQKPMAPR
 KLLPARRNRLSDGEHTDTKTNFEAKVPAPRQSIKDILDPRSWLQAQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8022_c05.zip

Restriction Sites: SgfI-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.

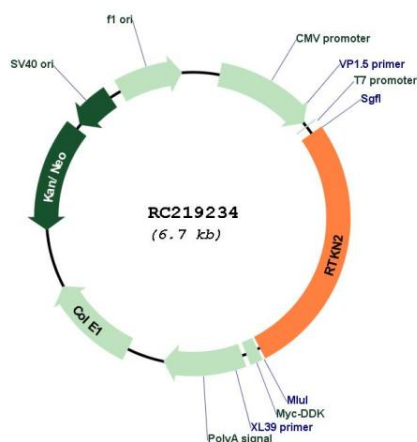
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145307.4](#)

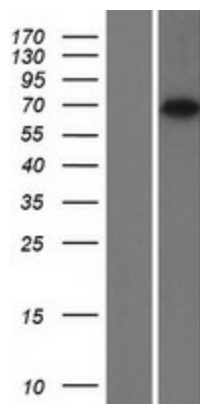
RefSeq Size: 6659 bp

RefSeq ORF:	1830 bp
Locus ID:	219790
UniProt ID:	Q8IZC4
Cytogenetics:	10q21.2
Domains:	PH
MW:	69.1 kDa
Gene Summary:	May play an important role in lymphopoiesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219234



Western blot validation of overexpression lysate (Cat# [LY407956]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219234 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).