

Product datasheet for **RC209549**

RIP3 (RIPK3) (NM_006871) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIP3 (RIPK3) (NM_006871) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIP3
Synonyms:	RIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209549 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGTGCGTCAAGTTATGGCCACGGTGCCCCGCCCTTGGTGTCCATCGAGGAAGTGGAGAACC
 AGGAGCTCGTCGGCAAAGGCGGGTTCGGCACAGTGTTCCGGGCGCAACATAGGAAGTGGGGTACGATGT
 GGCGGTCAAGATCGTAAACTCGAAGGCGATATCCAGGGAGGTCAAGGCCATGGCAAGTCTGGATAACGAA
 TTCGTGCTGCGCCTAGAAGGGTTATCGAGAAGGTGAACTGGGACCAAGATCCCAAGCCGGCTCTGGTGA
 CTAATTCATGGAGAACGGCTCCTTGTGGGGCTGCTGCAGTCCCAGTGCCTCGGCCCTGGCCGCTCCT
 TTGCCGCTGCTGAAAGAAGTGGTGTGGGATGTTTTACCTGCACGACCAGAACCCGGTCTCTGCAC
 CGGGACCTCAAGCCATCCAACGTCCTGCTGGACCCAGAGTGCACGTCAAGCTGGCAGATTTTGGCCTGT
 CCACATTCAGGGAGGCTCACAGTCAGGGACAGGGTCCGGGGAGCCAGGGGGCACCTGGGCTACTTGGC
 CCCAGAAGTGTGTTAACGTAACCGGAAGGCCCTCCACAGCCAGTGACGTCTACAGCTTCGGGATCCTA
 ATGTGGGCAAGTGTGCTGGAAGAGAAGTTGAGTTGCCAACCGAACCATCACTCGTGTACGAAGCAGTGT
 GCAACAGGCAGAACCGGCCTTCATTGGCTGAGTGCCCAAGCCGGGCCCTGAGACTCCCAGCTTAGAAGG
 ACTGAAGGAGCTAATGCAGCTCTGCTGGAGCAGTGAGCCCAAGGACAGACCCTCCTTCCAGGAATGCCTA
 CCAAAAAGTGTGAAGTCTTCCAGATGGTGGAGAACAATATGAATGCTGCTGTCTCCACGGTAAAGGATT
 TCCTGTCTCAGCTCAGGAGCAGCAATAGGAGATTTTCTATCCCAGAGTCAGGCCAAGGAGGGACAGAAAT
 GGATGGCTTTAGGAGAACCATAGAAAACCAGCACTCTCGTAATGATGTCATGGTTTCTGAGTGGCTAAAC
 AAATGAATCTAGAGGAGCCTCCAGCTCTGTTCTAAAAATGCCCGAGCCTTACCAAGAGGAGCAGGG
 CACAAGAGGAGCAGGTTCCACAAGCCTGGACAGCAGGCACATCTCAGATTCGATGGCCCAACCTCCCA
 GACTCCAGAGACCTCAACTTTCAGAAACCAGATGCCAGCCCTACCTCAACTGGAACACCAAGTCTGGA
 CCCCAGGGAATCAGGGGCTGAGAGACAAGGCATGAACTGGTCTGCAGGACCCCGAGCCAAATCCAG
 TAACAGGGCGACCGCTCGTTAACAATATACTGCTCTGGGGTGAAGTTGGAGACAACAATACTTGCAC
 TATGCAACAGACAACCTGCCTTGCCACATGGGGCTTGGCACCTTCGGGCAAGGGGAGGGGCTTGCAGCAC
 CCCCCACAGTAGGTTCCGAAGAAGGCCCTAAAGATCCTGAAGCCTGGAGCAGGCCACAGGGTTGGTATA
 ATCATAGCGGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209549 protein sequence
 Red=Cloning site Green=Tags(s)

MSCVKLWPSGAPAPLVSIIELENQELVGKGGFGTVFRAQHRKWGYDVAVKIVNSKAI SREVKAMASLDNE
 FVLRLEGVIEKVNWDQDPKALVTKFMENGLSGLLQSQCPRPWPLL CRLLEKVVLMGMFYLDQNPVLLH
 RDLKPSNVLLDPELHVKLADFGSTFQGGSSGTGSGEPGGTLGYLAPEL FVNVNRKASTASDVYSFGIL
 MWAVLAGREVELPTEPSLVYEAVCNQRNRP SLAELPQAGPETPGL EGLKELMQLCWSSEPKDRPSFQECL
 PKTDEVFQMVENMNAAVSTVKDFLSQLRSSNRRF SIPESGQGGTEMDGFRRTIENQHSRNDVMVSEWLN
 KLNLEPPSSVPKKCP SLTKRSRAQEEQVPQAWTAGTSSDSMAQPPQTPETSTFRNQMPSPSTGTGTPSPG
 PRGNQGAERQGMNWS CRTPEPNPVTGRPLVNIYNC SGVQVGDNNYLTMQQTALPTWGLAPSGKGRGLQH
 PPPVGSQEGPKDPEAWSRPQGWYHNSGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6525_e06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_006871

ORF Size: 1554 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

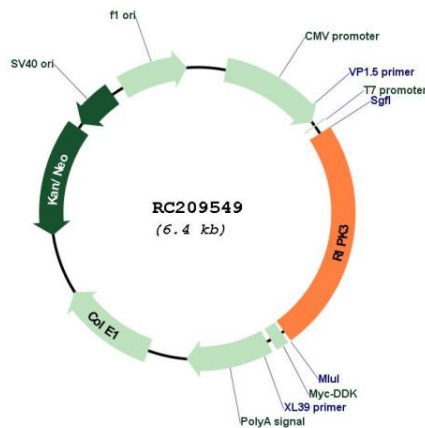
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_006871.4](#)

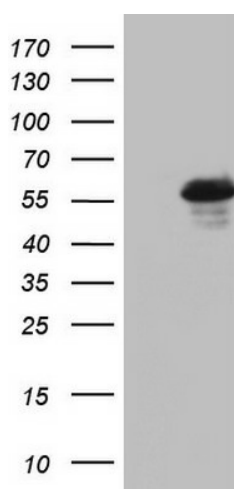
RefSeq Size: 1940 bp
RefSeq ORF: 1557 bp
Locus ID: 11035
UniProt ID: [Q9Y572](#)
Cytogenetics: 14q12
Protein Families: Druggable Genome, Protein Kinase
Protein Pathways: Cytosolic DNA-sensing pathway
MW: 56.9 kDa

Gene Summary: The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases, and contains a C-terminal domain unique from other RIP family members. The encoded protein is predominantly localized to the cytoplasm, and can undergo nucleocytoplasmic shuttling dependent on novel nuclear localization and export signals. It is a component of the tumor necrosis factor (TNF) receptor-I signaling complex, and can induce apoptosis and weakly activate the NF-kappaB transcription factor. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209549



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RIPK3 (Cat# RC209549, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RIPK3 (Cat# [TA803100]).