

Product datasheet for **MR209813**

Ripk1 (NM_009068) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ripk1 (NM_009068) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ripk1
Synonyms:	D330015H01Rik; Rinp; RIP; RIP-1; Rip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209813 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCAACCAGACATGTCCTTGGACAATATTAAGATGGCATCCAGTGACCTGCTGGAGAAGACAGACCTAG
ACAGCGGAGGCTTCGGGAAGGTGTCCTTGTGTTACCACAGAAGCCATGGATTTGTCATCCTGAAAAAAGT
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GCCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR209813 protein sequence
 Red=Cloning site Green=Tags(s)

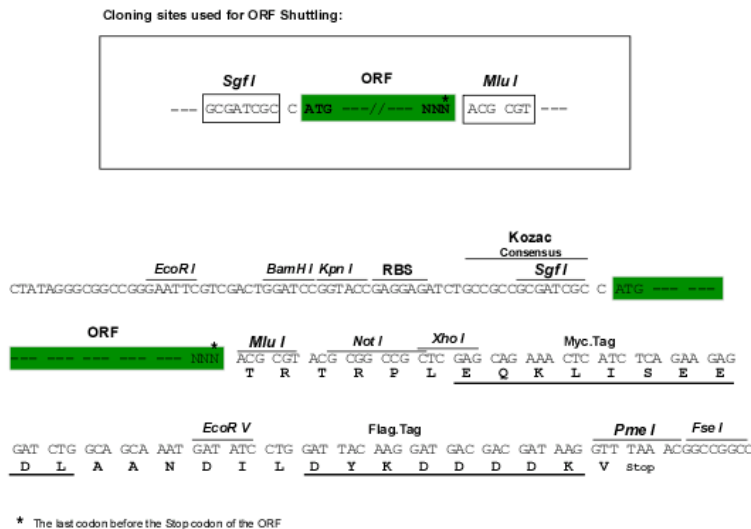
MQPDMSLDNIKMASSDLLEKTDLDSSGGFGKVS L CYHRSHGFVILKKVYTGPNRAEYNEVLLLEEGKMMHRL
 RHSRVVKLLGIIIEEGNYSLVMEYMEKGNLMHVLKTQIDVPLSLKGR I IVEAIEGMCYLHDKGVIHKDLK
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 GPVEESWFSSSPEYPQDENDRSVQAKLQEEASYHAFGIFAEKQTKPQPRQNEAYNREEERKRRVSHDPFA
 QQRARENIKSAGARGHSDPSTTSRGI AVQQLSWPATQTVWNNGLYNQHGF GTTGTGVWYPPNLSQMYSTY
 KTPVPETNIPGSTPTMPYFSGPVADDLIKYTFNSSGIQIGNHNYMDVGLNSQPPNNTCKEESTSRHQAI
 FDNTTSLTDEHLNPIRENLRQWKNCARKLGFTESQIDEIDHDYERDGLKEKVYQMLQKWL MREGTKGAT
 VGKLAQALHQCCRIDLNLH LIRASQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009068

ORF Size: 1971 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_009068.3](#), [NP_033094.3](#)

RefSeq Size: 4512 bp

RefSeq ORF: 1971 bp

Locus ID: 19766

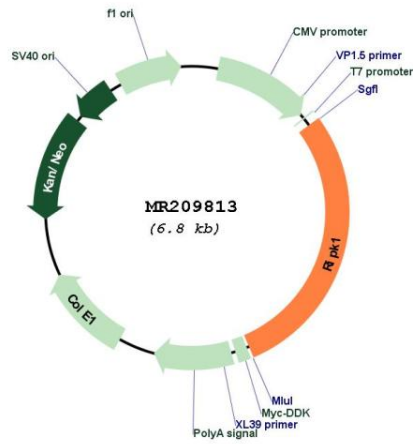
UniProt ID: [Q60855](#)

Cytogenetics: 13 14.01 cM

MW: 74.9 kDa

Gene Summary: Serine-threonine kinase which transduces inflammatory and cell-death signals (programmed necrosis) following death receptors ligation, activation of pathogen recognition receptors (PRRs), and DNA damage (PubMed:12654725, PubMed:19590578). Upon activation of TNFR1 by the TNF-alpha family cytokines, TRADD and TRAF2 are recruited to the receptor (By similarity). Phosphorylates DAB2IP at 'Ser-728' in a TNF-alpha-dependent manner, and thereby activates the MAP3K5-JNK apoptotic cascade (By similarity). Ubiquitination by TRAF2 via 'Lys-63'-link chains acts as a critical enhancer of communication with downstream signal transducers in the mitogen-activated protein kinase pathway and the NF-kappa-B pathway, which in turn mediate downstream events including the activation of genes encoding inflammatory molecules (By similarity). Polyubiquitinated protein binds to IKBKG/NEMO, the regulatory subunit of the IKK complex, a critical event for NF-kappa-B activation (By similarity). Interaction with other cellular RHIM-containing adapters initiates gene activation and cell death (By similarity). RIPK1 and RIPK3 association, in particular, forms a necrosis-inducing complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209813