

Product datasheet for **MC220144**

Ripk1 (NM_009068) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ripk1 (NM_009068) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC220144 representing NM_009068
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAACCAGACATGTCCTTGGACAATATTAAGATGGCATCCAGTGACCTGCTGGAGAAGACAGACCTAG
 ACAGCGGAGGCTTCGGGAAGGTGTCCTTGTGTTACCACAGAAGCCATGGATTTGTCATCCTGAAAAAGT
 ATACACAGGGCCCAACCGCCTGAGTACAATGAGGTTCTCTTGGAAAGAGGGGAAGATGATGCACAGACTG
 AGACACAGTCTGAGTGGTGAAGCTACTGGGCATCATCATAGAAGAAGGAACTATTCGCTGGTGGAGT
 ACATGGAGAAGGGCAACCTGATGCACGTGCTAAAGACCCAGATAGATGTCCCACTTTCATTGAAAGGAAG
 GATAATCGTGGAGGCCATAGAAGGCATGTGCTACTTACATGACAAAGGTGTGATACACAAGGACCTGAAG
 CCTGAGAATATCCTCGTTGATCGTGACTTTCACATTAAGATAGCCGATCTTGGTGTGGCTTCTTTAAGA
 CATGGAGCAAACCTGACTAAGGAGAAAGACAACAAGCAGAAAGAAGTGAGCAGCACCCTAAGAAGAACA
 TGGTGGTACCCTTACTACATGGCACCCGAACACCTGAATGACATCAATGCAAAGCCACGGAGAAGTCG
 GACGTGTACAGCTTTGGCATTGTCTTTGGCAATATTTGCAAAAAAGGACCCCTATGAGAATGTACATCT
 GTACTGAGCAGTTCGTGATCTGCATAAAATCTGGGAACAGGCCAAATGTAGAGGAAATCCTTGAGTACTG
 TCCAAGGGAGATCATCAGCCTCATGGAGCGGTGCTGGCAGGCGATCCCAGAAGACAGGCCAACATTTCTT
 GGCATTGAAGAAGAAATTTAGGCCTTTTACTTAAGTCATTTTGAAGAATATGTAGAAGAGGATGTGGCAA
 GTTTAAAGAAAGAGTATCCAGATCAAAGCCAGTGTGTCAGAGAATGTTTTCACTGCAGCATGACTGTGT
 ACCCTTACCTCCGAGCAGGTCAAATTCAGAACAACCTGGATCGCTGCACAGTTCAGGGGCTCCAGATG
 GGTCTGTGGAGGAGTCTGGTTTTCTTCTCCCAGAGTACCCACAGGACGAGAATGATCGCAGTGTGC
 AGGCTAAGCTGCAAGAGGAAGCCAGCTATCATGCTTTTGAATATTTGCAGAGAAACAGACAAAACCGCA
 GCCAAGGCAGAATGAGGCTTACAACAGAGAGGAGGAAAGGAAACGAAGGGTCTCTCATGACCCCTTTGCA
 CAGCAGAGAGCTCGTGAGAATATTAAGAGTGCAGGAGCAAGAGGTCATTCTGATCCAGCACAACGAGTC
 GTGGAATTGCAGTGCAACAGCTGTATGCCCAGCCACCCAAACAGTTTGGAAACAATGGATTGTATAATCA
 GCATGGATTTGGAACACAGGTACAGGAGTTTGGTATCCGCCAAATCTAAGCCAAATGTATAGTACTTAT
 AAAACTCCAGTGCAGAGACCAACATACCAGGAAAGCACACCCACCATGCCATACTTCTCTGGCCAGTAG
 CAGATGACCTCATAAAAATACTATATTTCAATAGTTCTGGTATTCAGATTGGAACCACAATTATATGGA
 TGTTGGACTGAATTCACAACCACCAACAATACTTGCAAAGAAGAGTCGACTTCCAGACACCAAGCCATC
 TTTGATAACACCCTAGTCTGACTGATGAACACCTGAACCCTATCAGGGAAAACCTGGGAAGGCAGTGGAA
 AAACTGTGCCCGCAAGCTGGGCTTCACTGAGTCTCAGATCGATGAAATCGACCATGACTATGAAAGAGA
 TGGACTGAAAGAGAAAGTTTACCAAATGCTTCAGAAGTGCTGATGCGGGGAAAGGCACAAAGGGGCCACA
 GTGGGAAAGTTGGCCAGGCACTTACCAATGTTGCAAGGATAGACCTGTGAACCACTTGATTCTGTGCCA
 GCCAGAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3036_b01.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009068

Insert Size: 1971 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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
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]