

Product datasheet for **MR208618**

Ripk2 (NM_138952) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ripk2 (NM_138952) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ripk2
Synonyms:	2210420D18Rik; CAR; CARD3; CARDIAK; CCK; D4Bwg0615e; R; RI; RICK; RIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208618 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAACGGGGACGCCATCTGCAGCGCTACCCCCATCCGTACCACAAGCTCGCCGACCTGCACTACC
 TCAGCCGGGGCGCCTCTGGCACGGTCTCGTCGGCACGACACGCACTGGCGCGTGGGGTGGCAGTGAA
 GCACCTACACATCCACACGCCGCTGCTCGACAGTGAAAGAAATGATATCTTACGAGAAGCCGAAATATTA
 CATAAAGCAAGATTTAGTTACATTCTTCAATTTTGGGAATTTGCAATGAGCCTGAATTTTGGGCATAG
 TTAAGTAAATACATGCCAAATGGATCATTAAATGAGCTTCTACACAGAAAACTGAATATCCTGATATTGC
 ATGGCCATTGAGATTCCGCATCTGCATGAAATGCTCTTGGTGTAAATTATCTGCACAATGAACCCC
 CCTCTGCTTCATCATGACCTAAAGACTCAGAATATCTTGTGGATAATGAATTTTCATGTTAAGATTGCAG
 ATTTTGGTTTATCAAAATGGCGCATGATGTCACCTCTCAATCACGAAGTTACAAATCTGCACCCGAAGG
 AGGAACAATCATCTATATGCCACCTGAGAACTATGAGCCAGGACAGAAATCAAGGGCCAGTGTGAAGCAT
 GATATATACAGCTATGCAGTTATCATGTGGGAAGTGTTATCCAGAAAACAGCCTTTTGAAGAGGTACCA
 ATCCTTTGCAGATCATGTACAGTGTGTCCAGGGACATCGACCTGACACCAAGTGAGGAGAATTTGCCATT
 TGATATACCTCATCGAGGTCTCATGATCTCTCTAATACAGAGTGGATGGGCGCAAAACCCAGATGAAAGA
 CCATCCTTTTGAATGCTTAATAGAACTTGAACCAAGTTCTGAGAACATTTGAAGACATAACTTTCTTG
 AGGCTGTTATTGAGCTAAAGAAAGCAAGATACAGAGTTCCTCAAGTACTATTCACTTATGTGATAAGAA
 AATGGATTTATCGCTAAACATACCTGCAATCATCCCCACAGGAGGAATCGTGTGGATCCTCTCTGCTC
 TCTAGAAACACTGGTTCTCTGGACCTCCAGATCCCTATCAGCTCCTCAAGACAAGGGATTTTATCTG
 GAGCACCTCAAGACTGCTCTTGTGTTGAAGGCACACCACTGTCTGAAACACAGCTGGGATGGTATCGT
 TTCTGTACCAACAGGGGACGCTTCTGTGATCGCAGGGCCTCCTCGTGTTCCTTGGCTGTAATAAGTCCA
 TTCTTGGTTGAGAAAGTTGAGAGCGCCACCAATTGGTATAGCCCAACAGTGGATCCAGAGTAAGAGGG
 AAGCCATTGTGAGCCAGATGACTGAAGCCTGCCTTAACCAATCGTGGACGCCCTTCTGTCTCGTACCT
 GATCATGAAGGAGGACTATGAACTATTAGCACCACCACTACAAGGACCTCAAAAGTCAAGACAGCTGCTA
 GATACGTCTGACATCAAGGAGAAGAGTTGCCAAAGTTGTAGTGCAGAAGTTGAAAGATAACAAGCAGC
 TGGGGCTGCAGCCTTACCCAGAAGTACCTGTGCTTCCAAAGCACCAGCTTCAAATTTCCCTCAGAATAA
 AAGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208618 protein sequence
 Red=Cloning site Green=Tags(s)

MNGDAICSPPIPYHKLADLHYLSRGASGTVSSARHADWRVRVAVKHLHIHTPLLDSEKNDILREAEIL
 HKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDIAWPLRFRILHEIALGVNYLHNMNP
 PLLHDLKTNILLDNEFHVKIADFGLSKWRMMSLSQSRYSKSAPEGGTIIYMPENYEPGQKSRASVKH
 DIYSYAVIMWEVLSRKQPFEEVTNPLQIMYSVSQGHRPDTSEENLPFDIPHRGLMISLIQSGWAQNPDER
 PSFLKCLIELEPVLRFTFEDITFLEAVIQLKKAKIQSSSTIHLCDKMDLSLNIPANHPPEESCGSSLL
 SRNTGSPGPSRLSAPQDKGFLSGAPQDCSSLKAHHCPGNHSDGIVSVPPGAFCRRASSCSLAVISP
 FLVEKGSERPPIGIAQQWIQSKREAIVSQMTACLNQSLDALLSRDLIMKEDYELISTKPTRTSKVRQLL
 DTSDIQGEFAKVVVQKLKDNKQLGLQPYEVPVLSKAPPSNFPQNKSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_138952

ORF Size: 1617 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_138952.4](#)

RefSeq Size: 1923 bp

RefSeq ORF: 1620 bp

Locus ID: 192656

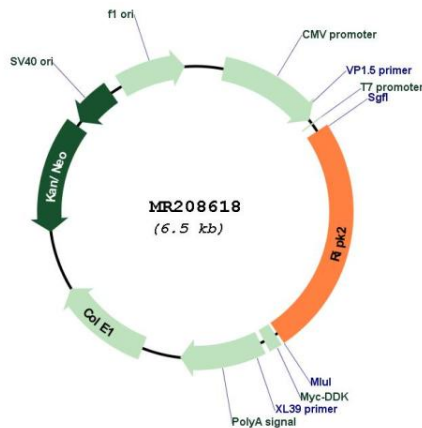
UniProt ID: [P58801](#)

Cytogenetics: 4 6.7 cM

MW: 60.4 kDa

Gene Summary: This gene encodes a member of the receptor-interacting protein family of serine/threonine protein kinases. The encoded protein contains a C-terminal caspase activation and recruitment domain, and is a component of signaling complexes in both the innate and adaptive immune pathways. It is a potent activator of nuclear factor kappa B and inducer of apoptosis in response to various stimuli. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR208618