

Product datasheet for **MG208618**

Ripk2 (NM_138952) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ripk2 (NM_138952) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ripk2
Synonyms:	2210420D18Rik; CAR; CARD3; CARDIAK; CCK; D4Bwg0615e; R; RI; RICK; RIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208618 representing NM_138952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGGGGACGCCATCTGCAGCGCTACCCCCATCCGTACCAACAAGCTCGCCGACCTGCACTACC
 TCAGCCGGGGCGCTCTGGCACGGTCTCGTCGGCACGACACGCACTGGCGCGTGGGGTGGCAGTGAA
 GCACCTACACATCCACACGCCGCTGCTCGACAGTGAAAGAAATGATATCTTACGAGAAGCCGAAATATTA
 CATAAAGCAAGATTTAGTTACATTTCTCAATTTTGGAAATTTGCAATGAGCCTGAATTTTTGGGCATAG
 TTAAGTAAATACATGCCAAATGGATCATTAAATGAGCTTCTACACAGAAAACTGAATATCCTGATATTGC
 ATGGCCATTGAGATTCGCATCCTGCATGAAATGCTCTTGGTGTAAATATCTGCACAATGAACCCC
 CCTCTGCTTCATCATGACCTAAAGACTCAGAATATCTTGTGGATAATGAATTTTCATGTTAAGATTGCAG
 ATTTTGGTTTATCAAAAATGGCGCATGATGTCACCTCTCAATCACGAAGTTACAAATCTGCACCCGAAGG
 AGGAACAATCATCTATATGCCACCTGAGAACTATGAGCCAGGACAGAAATCAAGGGCCAGTGTGAAGCAT
 GATATATACAGCTATGCAGTTATCATGTGGGAAGTGTATCCAGAAAACAGCCTTTTGAAGAGGTACCA
 ATCCTTTGCGATCATGTACAGTGTGCCAGGGACATCGACCTGACACCAAGTGGAGAGATTTGCCATT
 TGATATACCTCATCGAGGTCTCATGATCTCTCTAATACAGAGTGGATGGGCGCAAAACCCAGATGAAAGA
 CCATCCTTTTTGAAATGCTTAATAGAACTTGAACCAAGTCTGAGAACATTTGAAGACATAACTTTCTTG
 AGGCTGTTATTCAGCTAAAGAAAGCAAAGATACAGAGTTCCTCAAGTACTATTCACTTATGTGATAAGAA
 AATGGATTTATCGCTAAACATACCTGCAATCATCCCCACAGGAGGAATCGTGTGGATCCTCTCTGCTC
 TCTAGAAACACTGGTTCTCTGGACCCTCAGATCCCTATCAGCTCCTCAAGACAAGGATTTTTATCTG
 GAGCACCTCAAGACTGCTCTTCTGTTGAAGGCACACCAGTGTCTGAAACCACAGCTGGGATGGTATCGT
 TTCTGTACCACCGGGGACCTTCTGTGATCGCAGGGCCTCCTCGTGTTCCTTGCTGTAATAAGTCCA
 TTCTTGTTGAGAAAGTTTCCAGAGCGCCACCAATTGGTATAGCCCAACAGTGGATCCAGAGTAAGAGGG
 AAGCCATTGTGAGCCAGATGACTGAAGCCTGCCTTAACCAATCGCTGGACGCCCTTCTGTCTCGTACCT
 GATCATGAAGGAGGACTATGAACTATTAGCACCAAACTACAAGGACCTCAAAAGTCCAGACAGCTGCTA
 GATACGCTGACATCCAAGGAGAAGAGTTTCCAAAGTTGTAGTGCAGAAGTTGAAAGATAACAAGCAGC
 TGGGGCTGCAGCCTTACCAGAAGTACCTGTGCTTTCCAAAGCACCGCCTTCAAATTTCCCTCAGAATAA
 AAGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208618 representing NM_138952
 Red=Cloning site Green=Tags(s)

MNGDAICSAIPYHKLADLHLYSRGASGTVSSARHADWRVRVAVKHLHIHTPLLDSEKNDILREAEIL
 HKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDIAWPLRFRLHEIALGVNYLHMNP
 PLLHDLKTNILLDNEFHVKIADFGLSKWRMMSLSQRSYKSAPEGGTIIYMPENYEPGQKSRASVKH
 DIYSYAVIMWEVLSRKQPFEEVTNPLQIMYSVSQGHRPDTSEENLPFDIPHRGLMISLIQSGWAQNPDER
 PSFLKCLIELEPVLRTFEDITFLEAVIQLKAKIQSSSTIHLCDKMDLSLNIPANHPPQEESGSSLL
 SRNTGSPGSRSLAPQDKGFLSGAPQDCSSLKAHHCPCGNHSDGIVSVPPGAFCDRRASSCSLAVISP
 FLVEKGSERPPIGIAQQWIQSKREAIVSQMTEACLNQSLDALLSRDLIMKEDYELISTKPTRTSKVRQLL
 DTSDIQGEFAKVVVQKLKDNKQLGLQPYPEVPVLSKAPPSNFPQNKSL

TRTRPLE - GFP Tag - V

Restriction Sites:

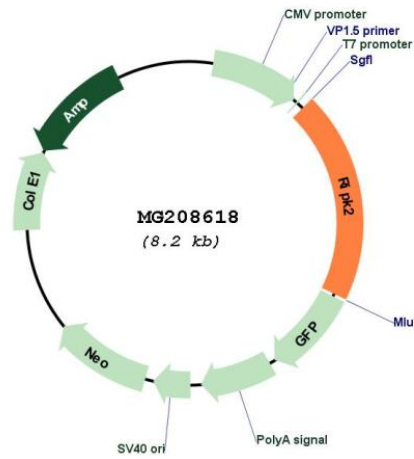
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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_138952.4
RefSeq Size:	1948 bp
RefSeq ORF:	1620 bp
Locus ID:	192656
UniProt ID:	P58801
Cytogenetics:	4 6.7 cM
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]