

Product datasheet for **RG216024**

RIP (RIPK1) (NM_003804) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIP (RIPK1) (NM_003804) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIP
Synonyms:	AIEFL; IMD57; RIP; RIP-1; RIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG216024 representing NM_003804
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAACCAGACATGTCCTTGAATGTCATTAAGATGAAATCCAGTGACTTCTGGAGAGTGCAGAACTGG
ACAGCGGAGGCTTCGGGAAGGTGTCTGTGTTCCACAGAACCAGGGACTCATGATCATGAAAACAGT
GTACAAGGGGCCAACTGCATTGAGCACACGAGGCCCTCTGGAGGAGGCGAAGATGATGAACAGACTG
AGACACAGCCGGGTGGTGAAGCTCCTGGGCGTCATCATAGAGGAAGGGAAGTACTCCCTGGTGATGGAGT
ACATGGAGAAGGGCAACCTGATGCACGTGCTGAAAGCCGAGATGAGTACTCCGCTTTCTGTAAAAGGAAG
GATAATTTTGGAAATCATTGAAGGAATGTGCTACTTACATGAAAAGGCGTGATACACAAGGACCTGAAG
CCTGAAAATATCCTTGTGATAATGACTTCCACATTAAGATCGCAGACCTCGGCCTTGCCTCTTTAAGA
TGTGGAGCAAACGAATAATGAAGAGCACAAATGAGCTGAGGGAAGTGGACGGCACCGCTAAGAAGAATGG
CGGCACCTCTACTACATGGCGCCGAGCACCTGAATGACGTCAACGCAAAGCCACAGAGAAGTGGAT
GTGTACAGCTTTGCTGTAGTACTCTGGCGATATTTGCAAATAAGGAGCCATATGAAAATGCTATCTGTG
AGCAGCAGTTGATAATGTGCATAAAATCTGGGAACAGGCCAGATGTGGATGACATCACTGAGTACTGCC
AAGAGAAATATCAGTCTCATGAAGCTCTGCTGGGAAGCGAATCCGGAAGCTCGGCCGACATTTCTGGC
ATTGAAGAAAAATTTAGGCCTTTTTATTTAAGTCAATTAGAAGAAAGTGTAGAAGAGGACGTGAAGAGTT
TAAAGAAAGAGTATTCAAACGAAAATGCAGTTGTGAAGAGAATGCAGTCTCTTCAACTGATTGTGTGGC
AGTACCTTCAAGCCGGTCAAATTCAGCCACAGAACAGCCTGGTTCCTGACTGCACAGTCCCAGGGACTTGGG
ATGGGTCTGTGGAGGAGTCTGGTTTGTCTCTCCCTGGAGCACCCACAAGAAGAGAATGAGCCAGCC
TGCAGAGTAAACTCCAAGACGAAGCCAACCTACCATCTTTATGGCAGCCGATGGACAGGCGAGACGAAACA
GCAGCCACAGACGAATGTGGCTTACAACAGAGAGGAGGAAAGGAGACGCAGGGTCTCCCATGACCTTTT
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GTCATGGTAAATGCAGTGCACCAGCCCTCAGGGCTCACCAGCCAACCTCAAGTACTGTATCAGAACAATGG
ATTATATAGCTCACATGGCTTTGGAACAAGACCACTGGATCCAGGAACAGCAGGTCCCAGAGTTTGGTAC
AGGCCAATTCAGTCATATGCCTAGTCTGCATAATATCCAGTGCCTGAGACCAACTATCTAGGAAATA
CACCCACCATGCCATTAGCTCCTTGCACCAACAGATGAATCTATAAAATATACCATATACAATAGTAC
TGGCATTAGATTGGAGCCTACAATTATATGGAGATTGGTGGGACGAGTTCATCACTACTAGACAGCACA
AATACGAACCTCAAAGAAGAGCCAGCTGCTAAGTACCAAGCTATCTTTGATAATACCACTAGTCTGACGG
ATAAACACCTGGACCAATCAGGGAAAATCTGGGAAAGCACTGGAAAACTGTGCCCGTAAACTGGGCTT
CACACAGTCTCAGATTGATGAAATTGACCATGACTATGAGCGAGATGGACTGAAAGAAAAGGTTTACCAG
ATGCTCCAAAAGTGGGTGATGAGGGAAGGCATAAAGGGAGCCACGGTGGGGAAGCTGGCCAGGGCCTCC
ACCAGTGTCCAGGATCGACCTTCTGAGCAGCTTGATTTACGTACGCCAGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216024 representing NM_003804
 Red=Cloning site Green=Tags(s)

MQPDMSLNVIKMKSSDFLESAELDSGGFGKVS LCFHRTQGLMIMKTVYKGPNCIEHNEALLEEAKMMNRL
 RHSRVVKLLGVIIEEGKYS LVM EYMEKGNLMHVLKAEMSTPLSVKGRIILEIIEGMCYLHGKGV IHKDLK
 PENILVDNDFHIKIADLGLASF KMWSKLNNEEHNELREVDGTAKKNGGTLYYMAPEHLNDVNAKPTEKSD
 VYSFAVVLW AIFANKEPYENAI CEQQLIMCIKSGNRPDVDDITEYCPREIISLMKLCWEANPEARPTFPG
 IEEKFRPFYLSQLEESVEEDVKSLKKEYSNENAVVKRMQSLQLDCVAVPSSRSNSATEQPGLSHSSQGLG
 MGPVEESWFAPSL EHPQEENEPSLQSKLQDEANYHLYGSRMDRQTKQPPRQNVAYNREEERRRRVSHDPF
 AQQRPYENFQNT EGKGTAYSSAASHGNVHQPSGLTSQPQVLYQNNGLYSSHGFGRPLDPGTAGPRVWY
 RPIPSHMPSLHNIPV PETNYLGNTPMPFSSLPPTDES IKYTIYNSTGIQIGAYNYMEIGG TSSLLDST
 NTNFKKEEPAAKYQAI FDNTTSLTDKHLDP IRENLGKHWKNCARKLGFTQSQIDEIDHDYERDGLKEKVYQ
 MLQKWVMREGIKGATVGKLAQALHQCSRIDLLSSLIYVSQN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003804

ORF Size: 2013 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_003804.3](#), [NP_003795.2](#)

RefSeq Size: 3864 bp

RefSeq ORF: 2016 bp

Locus ID: 8737

UniProt ID: [Q13546](#)

Cytogenetics: 6p25.2

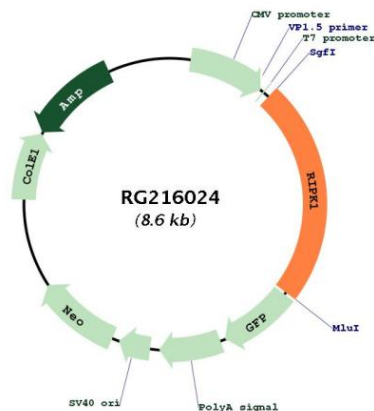
Domains: DEATH, pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Apoptosis, Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

Gene Summary: This gene encodes a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases. The encoded protein plays a role in inflammation and cell death in response to tissue damage, pathogen recognition, and as part of developmental regulation. RIPK1/RIPK3 kinase-mediated necrosis is referred to as necroptosis. Genetic disruption of this gene in mice results in death shortly after birth. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG216024