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Product datasheet for SC108466

RIP (RIPK1) (NM_003804) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIP (RIPK1) (NM_003804) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIP
Synonyms:	AIEFL; IMD57; RIP; RIP-1; RIP1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF sequence for NM_003804 edited
ATGCAACCAGACATGTCCTTGAATGTCATTAAGATGAAATCCAGTGACTTCCTGGAGAGT
GCAGAACTGGACAGCGGAGGCTTCGGGAAGGTGTCTCTGTGTTTCCACAGAACCCAGGGA
CTCATGATCATGAAAACAGTGTACAAGGGGCCCAACTGCATTGAGCACAACGAGGCCCTC
TTGGAGGAGGCGAAGATGATGAACAGACTGAGACACAGCCGGGTGGTGAAGCTCCTGGGC
GTCATCATAGAGGAAGGGAAGTACTCCCTGGTGATGGAGTACATGGAGAAGGGCAACCTG
ATGCACGTGCTGAAAGCCGAGATGAGTACTCCGCTTTCTGTAAAAGGAAGGATAATTTTG
GAAATCATTGAAGGAATGTGCTACTTACATGGAAAAGGCGTGATACACAAGGACCTGAAG
CCTGAAAATATCCTTGTTGATAATGACTTCCACATTAAGATCGCAGACCTCGGCCTTGCC
TCCTTTAAGATGTGGAGCAAACTGAATAATGAAGAGCACAATGAGCTGAGGGAAGTGGAC
GGCACCGCTAAGAAGAATGGCGGCACCCTCTACTACATGGCGCCCGAGCACCTGAATGAC
GTCAACGCAAAGCCCACAGAGAAGTCGGATGTGTACAGCTTTGCTGTAGTACTCTGGGCG
ATATTTGCAAATAAGGAGCCATATGAAAATGCTATCTGTGAGCAGCAGTTGATAATGTGC
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ATCAGTCTCATGAAGCTCTGCTGGGAAGCGAATCCGGAAGCTCGGCCGACATTTCCTGGC
ATTGAAGAAAAATTTAGGCCTTTTTATTTAAGTCAATTAGAAGAAAGTGTAGAAGAGGAC
GTGAAGAGTTTAAAGAAAGAGTATTCAAACGAAAATGCAGTTGTGAAGAGAATGCAGTCT
CTTCAACTTGATTGTGTGGCAGTACCTTCAAGCCGGTCAAATTCAGCCACAGAACAGCCT
GGTTCACTGCACAGTTCCCAGGGACTTGGGATGGGTCCTGTGGAGGAGTCCTGGTTTGCT
CCTTCCCTGGAGCACCCACAAGAAGAGAATGAGCCCAGCCTGCAGAGTAAACTCCAAGAC
GAAGCCAACTACCATCTTTATGGCAGCCGCATGGACAGGCAGACGAAACAGCAGCCCAGA
CAGAATGTGGCTTACAACAGAGAGGAGGAAAGGAGACGCAGGGTCTCCCATGACCCTTTT
GCACAGCAAAGACCTTACGAGAATTTTCAGAATACAGAGGGAAAAGGCACTGCTTATTCC
AGTGCAGCCAGTCATGGTAATGCAGTGCACCAGCCCTCAGGGCTCACCAGCCAACCTCAA
GTACTGTATCAGAACAATGGATTATATAGCTCACATGGCTTTGGAACAAGACCACTGGAT
CCAGGAACAGCAGGTCCCAGAGTTTGGTACAGGCCAATTCCAAGTCATATGCCTAGTCTG
CATAATATCCCAGTGCCTGAGACCAACTATCTAGGAAATACACCCACCATGCCATTCAGC
TCCTTGCCACCAACAGATGAATCTATAAAATATACCATATACAATAGTACTGGCATTCAG
ATTGGAGCCTACAATTATATGGAGATTGGTGGGACGAGTTCATCACTACTAGACAGCACA
AATACGAACTTCAAAGAAGAGCCAGCTGCTAAGTACCAAGCTATCTTTGATAATACCACT
AGTCTGACGGATAAACACCTGGACCCAATCAGGGAAAATCTGGGAAAGCACTGGAAAAAC
TGTGCCCGTAAACTGGGCTTCACACAGTCTCAGATTGATGAAATTGACCATGACTATGAG
CGAGATGGACTGAAAGAAAAGGTTTACCAGATGCTCCAAAAGTGGGTGATGAGGGAAGGC
ATAAAGGGAGCCACGGTGGGGAAGCTGGCCCAGGCGCTCCACCAGTGTTCCAGGATCGAC
CTTCTGAGCAGCTTGATTTACGTCAGCCAGAACTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003804 unedited
CAGTATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGGCGTTCTT
GAGCTTCAGAATGCAACCAGACTGTCCTTGAATGTCATTAAGATGAAATCCAGTGACTTC
CTGGAGAGTGCAGAACTGGACAGCGGAGGCTTCGGGAAGGTGTCTCTGTGTTTCCACAGA
ACCCAGGGACTCATGATCATGAAAACAGTGTACAAGGGGCCCAACTGCATTGAGCACAAC
GAGGCCCTCTTGGAGGAGGCGAAGATGATGAACAGACTGAGACACAGCCGGGTGGTGAAG
CTCCTGGGCGTCATCATAGAGGAAGGGAAGTACTCCCTGGTGATGGAGTACATGGAGAAG
GGCAACCTGATGCACGTGCTGAAAGCCGAGATGAGTACTCCGCTTTCTGTAAAAGGAAGG
ATAATTTTGGAAATCATTGAAGGAATGTGCTACTTACATGGAAAAGGCGTGATACACAAG
GACCTGAAGCCTGAAAATATCCTTGTTGATAATGACTTCCACATTAAGATCGCAGACCTC
GGCCTTGCCTCCTTTAAGATGTGGAGCAAACTGAATAATGAAGAGCACAATGAGCTGAGG
GAAGTGGACGGCACCGCTAAGAAGAATGGCGGCACCCTCTACTACATGGCGCCCGAGCAC
CTGAATGACGTCAACGCAAAGCCCACAGAGAAGTCGGATGTGTACAGCTTTGCTGTAGTA
CTCTGGGCGATATTTGCAAATAAGGAGCCCATATGAAATGCTATCTGTGAGCAGCAGTTG
ATAATGTGCATAAAATCTGGGAACAGGCCAGATGTGGATGACATCACTGAGTACTGCCCA
AGAGA

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_003804 unedited
TCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGGGGATAAATTTTTATTTTAAAAA
GTGTTAAAAAATGCCTTGCCCTCTTGCCTTTGAACATTAATTATTCAACCTCTTTGGAAT
CTAAGAGATTTGATAACACCATTTGGATGGTGGTACAAGGAGCAAACAGAACTCACCCAG
GCCCCTCCAGCAAAGCCTGGAGCCTCCCTCCATTCTCCCTTTTGGGCTGTAGGAGCCAAG
GCTGCGTGGTGGCCAAGTAGTAACCGGACAGGTGCAGACAGGAGAGCCGAGGCTCATTAC
TTTACAGCAGTGCTCTTCTCAACCGGGGCAATTTTCCCCTTTCCTTGGACCATTTGACAA
TGTTTAGAGACTATTGTCACAACTGGGGCGGGGGGCTGGGGAGAACAGTGCCCCTGGCAT
CTAGTAGGTGGGGGCAGGGATGCTACTAAACATCCTACAAGGAACAGGACAGTCCCCACA
ACAGAATTACCCCAGCCCGAGATGCCGACAGTGGCAAGGCTGAGACAGCCTGCTCTGCAC
CCCATTTCAGGGGTGTGTATGTGTCTGCTAGAGTTGAGGGGATTTACAATCAGAATCAAC
CACACTGTTATCAGCCCAAGAACCAGAATCTGTCCGACAGCCAGATTGCCATTACACACC
CTTTTTGGCCTCCCTCTGGGGAGAGCTAGCACAAAGCCTTCCTTTGTCCGTTTACAAAAT
GCCAGTGACACTGAGCGGGCTACCCAGCTTAAGCTTTTATATTAGTCTTTAATCCCCCCC
AAGTTTAAGTGGCCTTTGAAGGCTGGTGCTAAAGCCCAATACCCACTTAGAGCTGCCTTT
TTACTTTGTCCCCAGAAAAATTGAAAATCTTTCAGTCCCCGATTAACCGAGGAACCCTTA
ACAGTTAACCCTTGGGTTCTGGCTACCCAAGTAAAAAAAAATTTCTGTTCTTCCAAGCCC
TACGCTGGGAGGCCAAATGCCGAAAACTTTAAGTATCAGATTTTGTGACCACGTAAC
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Restriction Sites: NotI-NotI

ACCN: NM_003804

Insert Size: 3900 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:
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] Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1).