

Product datasheet for **SC323466**

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:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323466 sequence for NM_003804 edited (data generated by NextGen Sequencing)

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ATGCAACCAGACATGTCCTTGAATGTCATTAAGATGAAATCCAGTGACTTCCTGGAGAGT
GCAGAACTGGACAGCGGAGGCTTCGGGAAGGTGTCTCTGTGTTTTCCACAGAACCCAGGGA
CTCATGATCATGATAACAGTGTACAAGGGGCCAACTGCATTGAGCACAACGAGGCCCTC
TTGGAGGAGCGAAGATGATGAACAGACTGAGACACAGCCGGTGGTGAAGCTCCTGGGC
GTCATCATAGAGGAAGGGAAGTACTCCCTGGTGTGGAGTACATGGAGAAGGGCAACCTG
ATGCACGTGCTGAAAGCCGAGATGAGTACTCCGCTTTCTGTAAAAGGAAGGATAATTTTG
GAAATCATTGAAGGAATGTGCTACTTACATGAAAAGGCGTGATACACAAGGACCTGAAG
CCTGAAAATATCCTTGTGATAATGACTTCCACATTAAGATCGCAGACCTCGGCCTTGCC
TCCTTTAAGATGTGGAGCAAAGTGAATAATGAAGAGCACAATGAGCTGAGGGAAGTGGAC
GGCACCCTAAGAAGAATGGCGCACCTCTACTACATGGCGCCCGAGCACCTGAATGAC
GTCAACGCAAAGCCACAGAGAAGTCGGATGTGTACAGCTTTGCTGTAGTACTCTGGGCG
ATATTTGCAAATAAGGAGCCATATGAAAATGCTATCTGTGAGCAGCAGTTGATAATGTGC
ATAAAATCTGGGAACAGGCCAGATGTGGATGACATCACTGAGTACTGCCAAGAGAAATT
ATCAGTCTCATGAAGCTCTGCTGGGAAGCGAATCCGGAAGCTCGGCCGACATTTCTGGC
ATTGAAGAAAAATTTAGGCCTTTTTATTTAAGTCAATTAGAAGAAAGTGTAGAAGAGGAC
GTGAAGAGTTTTAAAGAAAGAGTATTCAAACGAAAATGCAGTTGTGAAGAGAATGCAGTCT
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GGTTCAGTGCACAGTTCACAGGACTTTGGGATGGGTCTGTGGAGGAGTCTGGTTTGCT
CCTTCCCTGGAGACCCACAAGAAGAGAATGAGCCAGCCTGCAGAGTAACTCCAAGAC
GAAGCCAACTACCATCTTTATGGCAGCCGATGGACAGGCAGACGAAACAGCAGCCGAGA
CAGAATGTGGCTTACAACAGAGAGGAGGAAAGGAGACGCAGGGTCTCCCATGACCCTTTT
GCACAGCAAAGACCTTACGAGAATTTTCAGAATACAGAGGGAAAAGGCACTGCTTATTCC
AGTGCAGCCAGTCATGGTAATGCAGTGCACCAGCCCTCAGGGCTCACCAGCCAACCTCAA
GTAAGTATCAGAACAATGGATTATATAGCTCACATGGCTTTGGAACAAGACCACTGGAT
CCAGGAACAGCAGGTCCCAGAGTTTGGTACAGGCCAATTCAGTATGCCTAGTCTG
CATAATATCCCAGTGCCTGAGACCAACTATCTAGGAAATACACCCACCATGCCATTGAGC
TCCTTGCCACCAACAGATGAATCTATAAAATATACCATATACAATAGTACTGGCATTGAG
ATTGGAGCCTACAATTATATGGAGATTGGTGGGACGAGTTCATCACTACTAGACAGCACA
AATACGAACTTCAAAGAAGAGCCAGCTGCTAAGTACCAAGCTATCTTTGATAATACCACT
AGTCTGACGGATAAACACCTGGACCCAATCAGGAAAATCTGGGAAAGCACTGGAAAAAC
TGTGCCGTAAACTGGGCTTACACAGTCTCAGATTGATGAAATTGACCATGACTATGAG
CGAGATGGACTGAAAGAAAAGGTTTACCAGATGCTCCAAAAGTGGGTGATGAGGGGAGGC
ATAAAGGGAGCCACGGTGGGGAAGCTGGCCAGGCGCTCCACCAGTGTCCAGGATCGAC
CTTCTGAGCAGCTTGATTTACGTCAGCCAGAATAA

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Clone variation with respect to NM_003804.3
84 t=>c;134 a=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_003804 unedited CCCGCTCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGTTCTTGAGCT TCAGAATGCAACCAGACATGTCCTTGAATGTCATTAAGATGAAATCCAGTGACTTCTGGAGAGTGCAGA ACTGGACAGCGGAGGCTTCGGGAAGGTGTCTGTGTTTTCCACAGAACCCAGGGACTCATGATCATGATG ACAGTGTACAAGGGGCCAACTGCATTGAGCACAAACGAGGCCCTTTGGAGGAGGCGAAGATGATGAACA GACTGAGACACAGCCGGTGGTGAAGCTCCTGGGCGTCATCATAGAGGAAGGGAAGTACTCCCTGGTGAT GGAGTACATGGAGAAAGGGCAACCTGATGCACGTGCTGAAAGCCGAGATGAGTACTCCGCTTTCTGTAAA AGGAAGGATAATTTTGGAAATCATTGAAGGAATGTGCTACTTACATGGAAAAGGCGTGATACACAGGACC TGAAGCCTGAAATATCCTTGTTGATATGACTTCAACATTAGATCGCAGACCTCGGCCTTGCCCTTTAA GAATGGTGGAGCAAATGATATGAGAAGCCACATTGAGCTGAGGAATGGACCGAACCCGCTAAGAAAAGAA TGCGCACCCCTCTACTACTGGCCGCCAACACTGATGACCGTCCACGCAAGCCACAGAAAGTCGG AGTGGTACGGCTTGTGTATACCTGGGCGATTGCATAAGGACATGAATTCTATTCTGAACCCATTGTA TTGCTAACTGACGGCAAGTGGGTAGACCTCTGATACTCGGCAGAAATTAGTCTCACTTGTGGAGCGATTC CGGAAGTGGCGCATTTCG
Kinase Domain Sequence:	>SC323466 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSATGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGTTCTTGAGCTTCAGAA TGCAACCAGACATGTCCTTGAATGTCATTAAGATGAAATCCAGTGACTTCTGGAGAGTGCAGAAGTGA CAGCGGAGGCTTCGGGAAGGTGTCTGTGTTTTCCACAGAACCCA
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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_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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1).</p>