

Product datasheet for **SC323692**

RIPK4 (NM_020639) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIPK4 (NM_020639) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIPK4
Synonyms:	ANKK2; ANKRD3; CHANDS; DIK; NKRD3; PKK; PPS2; RIP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_020639, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGGCGACGGCGGGACCCATGGGCCCTGGCGCTGCTGCGCACCTTCGACGCGGGCGAGTTACGGG
GCTGGGAGAAAGTGGGCTCGGGCGGCTTCGGGCAGGTGTACAAGGTGCGCCATGTCCACTGGAAGACCTG
GCTGGCCATCAAGTGCTCGCCAGCCTGCACGTGACGACAGGGAGCGCATGGAGCTTTTGAAGAAGCC
AAGAAGATGGAGATGGCCAAGTTTCGCTACATCCTGCCTGTGTATGGCATCTGCCGGAACCTGTCGGCC
TGGTCATGGAGTACATGGAGACGGGCTCCCTGGAAGAGCTGCTGGCTTCGGAGCCATTGCCATGGGATCT
CCGTTCCGAATCATCCACGAGACGGCGTGGGCATGAACTTCCTGCACTGCATGGCCCCGCCACTCCTG
CACCTGGACCTCAAGCCCGGAACATCCTGCTGGATGCCACTACCACGTCAAGATTTCTGATTTTGGTC
TGGCCAAGTGCAACGGGCTGTCCACTCGCATGACCTCAGCATGGATGGCTGTTTGGCACAATCGCCTA
CCTCCCTCCAGAGCGCATCAGGGAGAAGAGCCGGCTTTCGACACCAAGCAGATGTATACAGCTTTGCG
ATCGTCATCTGGGGCGTCTCACACAGAAGAAGCCGTTTGCAGATGAGAAGAACATCCTGCACATCATGG
TGAAGGTGGTGAAGGGCCACCGCCGAGCTGCCGCCGTGTGCAGAGCCGGCCGCGCGCTGCAGCCA
CCTGATACGCCTCATGCAGCGGTGCTGGCAGGGGGATCCGCGAGTTAGGCCACCTTCCAAGAAATTA
TCTGAAACCGAGGACCTGTGTGAAAAGCCTGATGACGAAGTAAAAGAAATGCTCATGATCTGGACGTGA
AAAGCCCCCGGAGCCAGGAGCGAGGTGGTGCCTGCGAGGCTCAAGCGGGCCTCTGCCCCACCTTCGA
TAACGACTACAGCCTCTCCGAGCTGCTCTCACAGCTGGACTCTGGAGTTTCCAGGCTGTGAGGGCCCC
GAGGAGCTCAGCCGAGCTCCTCTGAGTCCAAGTGCCATCGTCCGGCAGTGGGAAGAGGCTCTCGGGGG
TGTCTCGGTGGACTCCGCTTCTTCCAGAGGATCACTGTGCTGTCTTTGAGCGGGAACCTTCAAC
CAGCGATCTGGCACACAGACGTCCAGAAGAAGAAGCTTGTGGATGCCATCGTGTCCGGGGACACCAGC
AAACTGATGAAGATCCTGCAGCCGAGGACGTGGACCTGGCACTGGACAGCGGTGCCAGCCTGCTGCACC
TGGCGGTGGAGGCGGGCAAGAGGAGTGCGCCAAGTGGCTGCTGCTCAACAATGCCAACCCCAACCTGAG
CAACCGTAGGGGCTCCACCCGTTGCACATGGCCGTGGAGAGGGGTGCGGGGTGCTGTGGAGCTCCTG
CTGGCGCGGAAGATCAGTGTCAACGCCAAGGATGAGGACCAAGTGGACAGCCCTCCACTTTGCAGCCAGA
ACGGGGACGAGTCTAGCACACGGCTGCTGTTGGAGAAGAAGCGCTCGGTCAACGAGGTGGACTTTGAGGG
CCGGACGCCATGCACGTGGCCTGCCAGCACGGGCAGGAGAATATCGTGCGCATCCTGCTGCGCCGAGGC
GTGGACGTGAGCCTGCAGGGCAAGGATGCCTGGTGCCTGCACTGCACTACGCTGCCTGGCAGGGCCACCTGC
CCATCGTCAAGCTGCTGGCCAAGCAGCCGGGGTGTGAGTGTGAACGCCAGACGCTGGATGGGAGGACGCC
ATTGCACCTGGCCGCACAGCGCGGGCACTACCGCTGGCCGCATCCTCATCGACCTGTGCTCCGACGTC
AACGTCTGAGCCTGCTGGCACAGACCCCTGCACGTGGCCGCGGAGACGGGGCACACGAGCACTGCCA
GGCTGCTCCTGCATCGGGGCGCTGGCAAGGAGGCCATGACCTCAGACGGCTACACCGCTCTGCACCTGGC
TGCCCGCAACGGACACCTGGCCACTGTCAAAGTCTTGTGAGGAGAAGGCCGATGTGCTGGCCCGGGGA
CCCCTGAACCAGACGGGCTGCACCTGGCTGCCGCCACGGGCACTCGGAGGTGGTGGAGGAGTTGGTCA
GCGCCGATGTATTGACCTGTTGACGAGCAGGGGCTCAGCGCGTGCACCTGGCCGCCAGGGCCGGCA
CGCACAGACGGTGGAGACTCTGCTCAGGCATGGGGCCACATCAACCTGCAGAGCCTCAAGTTCAGGGC
GGCCATGGCCCCGCCACGCTCCTGCGGCGAAGCAAGACCTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_020639 unedited CCCGCCGTTACAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGCGACGGCGGGACCC CATGGGCCTGGCGCTGCTGCGCACCTTCGACGCGGGCGAGTTACACGGGCTGGGAGAAGGTGGGCTCGGG CGGCTTCGGGCAGGTGTACAAGGTGCGCCATGTCCACTGGAAGACCTGGCTGGCCATCATGTGCTCGCCC AGCCTGCACGTCGACGACAGGGAGCGCATGGAGCTTTTTGGAAGAAGCCAAGAAAGATGGGAGATGGGCC AAGTTTTCGTACATCCCTGCCCTGTGTATGGGCATCTGCCGCGAAACCTGTCGGCCTGTTTCATGGGAGT ACATGGGAACAGGCTCCCCTGAAAAAGCTGCTGGGCTTCCGAACCATTTGCATGGGGATTCTCCGTTTCG GATTCATCCACAAAACGGCGTTGGCATTGAACTTCTGGAATTGCAGGCCCCCGCAATTCGCGAACCTGA CCTTCAGGCCCGGACATTCTGTTGAATGCCAATTCACCGCCTAGAGATCTCTGATTTGGCTCGGGCAAGT TGACACGGGTGTGCCACCGGCGAGACCTAGACAGGAGATGCCCGGTTGGCAAACGCGTCATCTTCTAC AGAGCATTGAGAGAGACCGGGCTTCTAAACAAAACACAGTATAAAACGTTTCGATACCTCGGGCGGC TCACAGAGAACGCTTTGATAGAGAACTCTGCACACTGTGAAGTGTGAAGCCGCCAATCCCGTGTGAA CGGCCTGAACTGGCTTACAGCTGCAAGATCAATTAACCTGAACTTTGAGCACGTGAACTGCGAGTGAG GCTGACTGGT
Kinase Domain Sequence:	>SC323692 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 CSAAKGMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGT CAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGCGACGGCGGGACCCCATG GGCCTGGCGCTGCTGCGCACCTTCGACGCGGGCGAGTTACGGGCTGGGAGAAGGTGGGCTCGGGCGGC TTCGGGCAGGTGTACAAGGTGCGCCATGTCCACTGGAAGACCTGG
Restriction Sites:	Please inquire
ACCN:	NM_020639
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 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_020639.2 , NP_065690.2
RefSeq Size:	3890 bp
RefSeq ORF:	2355 bp
Locus ID:	54101
Cytogenetics:	21q22.3
Domains:	pkinase, TyrKc, ANK, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	The protein encoded by this gene is a serine/threonine protein kinase that interacts with protein kinase C-delta. The encoded protein can also activate NFkappaB and is required for keratinocyte differentiation. This kinase undergoes autophosphorylation. [provided by RefSeq, Jul 2008]