

## Product datasheet for **SC323598**

### **RIPK5 (DSTYK) (NM\_015375) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIPK5 (DSTYK) (NM_015375) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIPK5
Synonyms:	CAKUT1; DustyPK; HDCMD38P; RIP5; RIPK5; SPG23
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_015375, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGGCGACGGGGTGCCATGGGGCAGCGAGCCCGTCTGGGTCCCAGCCCGGGCGGGCGGAATGA
TCCGCGAGCTGTCCGGGGCTTCGGCCGCTACCGCCGCTACCTGGGACGGCTGCGACAGAACCTGCGCGA
GACCCAGAAGTTCTTCCGCGACATCAAGTGCTCCACAAACCACACTTGTCTCTCCTCCCTCACGGGCGGC
GGCGGGGCGAGCGCGGCCCTGCAGGCGATGTCGCCGAAACCGGGCTGCAGGCGGGCCAACTGAGCTGCA
TTTCTTCCCACCTAAGGAAGAGAAGTACCTCCAGCAGATTGTGGACTGCCTCCCTTGCATACTGATCCT
CGGCCAGGATTGTAACGTCAAGTGCCAGCTGTTGAATCTGCTGTTGGGGTGCAGGTGCTTCCCACCACC
AAGCTGGGCAAGTGAAGCTTCCGGCGCTCCGCTTACCTATGGGACTCAGACTCGGGTCA
GCCTGGCGCTCCCTGGACAGTATGAACTAGTGCACACGCTGGTTGCTCATCAGGGCAACTGGGAGACCAT
CCCTGAGGAGGATCTGGAGGTCCAAGAGAACAATGAGGATGCTGCTCATGTTTTAGCGGAACTGGAGGTA
ACGATGCACCATGCTCTTTACAGGAAGTGACGTTGTGGTAGCACCATGCCAAGGCTCCGGCCACAG
TGGATGTTCTGGGTGACTTGGTGAATGATTTCTTGCCTGTGATAACCTATGCACTCCACAAGATGAACT
CTCTGAGAGGGATGAGCAAGAGCTTCCAGAAATCCGAAAGTATTTCTCCTTTCCTGTATTCTTTTCAAA
GTGCCGAAACTGGGCTCGGAGATAATAGACTCCTCAACCAGGAGAATGGAGAGCGAAAGATCACCGCTTT
ATCGCCAGCTAATTGACCTGGGCTATCTGAGCAGCAGTCACTGGAAGTGTGGGGCTCCTGGCCAGGATAC
TAAAGCTCAGAGCATGTTGGTGGAAACAGAGTGAAGGCTGAGACACTTGAGCACATTTTCTCACCAGGTG
TTACAGACTCGCTGGTGGATGCAGCCAAGGCCCTGAACCTGGTGCAGTCCACTGCCTTGCATCTTTA
TTAACCAGGCATTTGACATGCAGCGGGACCTGCAGATCACTCCAAACGCTCTGGAATATACTCGAAAAA
GGAGAATGAGTTGATGAATCATTGATGAATATGCCAACCGAAAGCAGGAGGAAATGAAGGATATGATT
GTTGAGACACTTAATACCATGAAGGAGGAACCTTGGATGATGCTACTAACATGGAGTTTAAAGAGTCA
TTGTCCCTGAGAATGGAGAACCAGTAGGCACCAGAGAGATCAAATGCTGCATCCGACAGATCCAGGAACT
CATCATCTCCCGACTTAATCAGGCAAGTGGCTAATAAGCTGATCAGCTCAGTGGATTACCTGAGGGAAAGC
TTCGTGCGAACCTGGAACGATGTCTGCAGAGCCTGGAGAAGTCTCAGGATGTCTCAGTTCACATCACCA
GTAATTATCTCAACAGATCTTAAATGCTGCCTATCATGTTGAAGTACGTTTCACTCAGGGTCTGTCAGT
TACAAGGATGCTATGGGAGCAAATCAAACAGATCATCCAGCGCATCATGGGTGAGCCACCTGCCATC
ACTCTGGAATGGAAGAGGAAGGTGGCCAGGAAGCCATTGAGAGCCTCAGCGCTCCAAATTGGCTAAGA
GCATTTGCAGCCAATCCGGACTCGGCTCAATAGTTCCACGAGGCTTTTGCAGCCTCCTTGCGGCAGCT
GGAAGCTGGCCACTCAGGCCGTTAGAGAAAACGGAAGATCTATGGCTGAGGGTTCGAAAGATCATGCT
CCCCGCCTGGCCCGCCTTCTCTGGAAAGCTGTTCTTTACAGGATGCTTGTCTCATCGTAAACCTAAAC
TGGGACAGGAACTGGGCCGGGGCCAGTATGGTGTGGTATACCTGTGTGACAACCTGGGGAGGACACTCCC
TTGTGCCCTCAAATCAGTTGTCCCTCCAGATGAGAAGCACTGGAATGATCTGGCTTTGGAATTTCACTAT
ATGAGGTCTCTGCCAAGCATGAGCGATTGGTGGATCTCCATGGTTCACTGACTACAACATATGGTG
GTGGCTCCAGCATTGCTGTGCTCCTCATTATGGAGCGGCTACACCGGGATCTCTACACAGGGCTGAAGGC
TGGGCTGACCCCTGGAGACAGTTCAGATAGCACTAGATGTGGTGGAGGGAATCCGCTTCTGCACAGC
CAGGGACTTGCCATCGTGATATCAAACGAAAAATGTGCTGCTGGATAAGCAGAAACCGTCCAAGATCA
CTGACTTAGGATTCTGCAAGCCAGAGCCATGATGTCAGGCAGCATTGTGGGGACACCAATCCATATGGC
CCCTGAACTTTTACAGGGAAGTACGATAATCCGTGGATGTCTACGCTTTTGAATTCTTTCTGGTAT
ATCTGCTCAGGCTCTGTCAAGCTCCCTGAGGCATTTGAGAGGTGTGCTAGCAAAGACCATCTCTGGAACA
ATGTGCGGAGGGGGCTCGCCAGAACGCTTCTCTGTGTTTGTGAGGAGTGTGGCAGTTGATGGAAGC
CTGTTGGGATGGCGACCCCTTGAAGAGGCTCTCTTGGGCATTGTCCAGCCCATGCTCCAGGGCATCATG
AATCGGCTCTGCAAGTCCAATTCTGAGCAGCCAAACAGAGGACTAGATGATTCTACTTGA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_015375 unedited ACGCCCGTATCAGCAAAGGGCGGTAGGCGCTGTACGGCTGGGAGGTCTATATAAGCAGAGCTCGTTTAGT GAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCAGAGGCCCTCACGGGC GGCGGCGGGGCCGAGCGCGGCCCTGCAGGCGATGTCGCCGAAACCGGGCTGCAGGCGGGCGGACTGAGCT GCATTTCTTCCACCTAAGGAAGAGAAGTACCTCCAGCAGATTGTGGACTGCCTCCCCTGCATACTGA TCCTCGCCAGGATTGTAACGTCAAGTCCACCTGTTGAATCTGCTGTGGGGGTCCCAGTGCAGGGGGG GGGTGTACATGGGGGAGAAGATGAGCTGAAAACCTTAAAACCCCTCAATTTTAACTATGGTACTACGAG TTCGGATAACAAAGTACACAAAAAAAAAAAAAAAAAAAAAAAAACAAAGAAAAAGAACAAAAAAAAACACAGTC CGAAACTAAACATCCGAAACAATATCCCCACAAAACCAAAAAAAAAAGAAAATATTAATTGGACACCATTA AAAAAAAAATAACA
<b>Kinase Domain Sequence:</b>	>SC323598 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TGCTGTACTGGGCGGGGCCAGTATGGTGTGGTATACCTGTGTGACAACCTGGGAGGACACTTCCCTTGT GCCCTCATGTCTAGTTGTCCCTCCAGATGAGAAGCACTGGAATGATCTGGCTTTGGAATTTCACTATATGA GGTCTCTGCCAAGCATGAGCGATTGGTGGATCTCCATGGTTCAGTCATTGACTACAACCTATGGTGGTGG CTCCAGCATTGCTGTGCTCCTCATTATGGAGCGGCTACACCGGGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_015375
<b>Insert Size:</b>	3800 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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." <a href="#">Cell</a> , 2008 May p536-548.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_015375.1</a> , <a href="#">NP_056190.1</a>
<b>RefSeq Size:</b>	7889 bp
<b>RefSeq ORF:</b>	2790 bp
<b>Locus ID:</b>	25778

UniProt ID: [Q6XUX3](#)

Cytogenetics: 1q32.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a dual serine/threonine and tyrosine protein kinase which is expressed in multiple tissues. It is thought to function as a regulator of cell death. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1).