

## Product datasheet for **SC323657**

### STK39 (NM\_013233) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STK39 (NM_013233) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK39
Synonyms:	DCHT; PASK; SPAK
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\_013233, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAGCCGAGCGGCTCGCCCGTGCACGTCCAGCTTCCCAGCAGGCGGCCCGGTGACAGCGGCGG
CGGCGGCGGCCCCGCGCGCCGACAGCAGCGCGGCCCGCCAGCTCCCAGCGGCCCGGCCCGGCCCG
GGCCCCGGCGGCACAGGCTGTCGGTGGCCATCTGCAGGACGCGTACGAGCTGCAGGAGTTATCGGG
AGTGGAGCTACTGCTGTGGTTCAGGCAGCCCTATGCAAACCCAGGCAAGAAGCTGTAGCAATAAAACGGA
TCAACTTGAAAAATGCCAGACCAGTATGGATGAACTATTAAGAAATCAAGCCATGAGTCAGTGCAG
CCATCCCAACGTAGTGACCTATTACACCTCTTTTGGTCAAAGATGAACTTTGGCTGGTCATGAAATTA
CTAAGTGGAGTTCAATGTTGGATATCATAAAATACATTGTCAACCGAGGAGAACAAGAATGGAGTTC
TGAAGAGGCAATAATAGCAACAATTCTTAAAGAGTTTTGGAAGGCTTAGACTATCTACACAGAAACGG
TCAGATTCACAGGATTTGAAAGCTGGTAATATTCTTCTGGGTGAGGATGGTTCAGTACAAATAGCAGAT
TTTGGGTAAGTGCCTTCTAGCAACAGGGGTGATGTTACCCGAAATAAAGTAAGAAAAACATTCGTTG
GCACCCCATGTTGGATGGCTCCTGAAGTCATGGAACAGGTGAGAGGCTATGACTTCAAGGCTGACATGTG
GAGTTTTGGAATAACTGCCATTGAATTAGCAACAGGAGCAGCGCCTTATCACAAATATCCTCCCATGAAA
GTGTTAATGTTGACTTTGCAAAATGATCCACCCACTTTGAAACAGGGGTAGAGGATAAAGAAATGATGA
AAAAGTACGGCAAGTCTTTAGAAAATTTACTTTCACTGTGCTTTCAGAAAGATCCTTCCAAAAGGCCAC
AGCAGCAGAACTTTAAATGCAAACTTCCAGAAAGCCAAAGACAGAGAGTACCTGATTGAGAAGCTG
CTTACAAGAACACCAGACATAGCCCAAAGGCCAAAAGGTAAGAAGAGTTCTGGGTCAAGTGGTCACC
TTCATAAAACCGAAGACGGGGACTGGGAGTGGAGTGACGACGAGATGGATGAGAAGAGCGAAGAAGGGAA
AGCAGCTTTTTCTCAGGAAAAGTACGAAGAGTAAAAGAAGAAAATCCAGAGATTGCAGTGAGTGCCAGC
ACCATCCCCGAACAAATACAGTCCCTCTCTGTGCACGACTCTCAGGGCCCAACCTAATGCTAATGAGC
ACAGAGAAGCTTCTTCTGTGCGGTGAACCTCGTTTTGAGATTAAGAAACTCCAGAAAGGAATTAATGA
CATACGATTTGAGTTTACTCCAGGAAGAGATACAGCAGATGGTGTATCTCAGGAGCTTCTCTGCTGGC
TTGGTGGATGGTCACGATGTAGTTATAGTGGTCTAATTTACAGAAGATTGTAGATGATCCCAAAGCTT
TAAAAACATTGACATTTAAGTTGGCTTCTGGCTGTGATGGGTCGGAGATTCCTGATGAAGTGAAGCTGAT
TGGGTTTGCTCAGTTGAGTGCAGCTGA
    
```

**5' Read Nucleotide Sequence:** >OriGene 5' read for mutant NM\_013233 unedited

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CCCCCGGTTATCAGCAAAGGGCGGTAGGCGCTGTACGGCTGTGGAGGTCTATATAAGCAGAGCTCGTTT
AGTGAACCGTCAGAATCTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTCCTAGCT
GGCTTCGGCGGGGACGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGGAGGGCGTGCGCCGGCCGAGA
GGTGTCCGGCGGAGGCCAAAGGAAGTTTCAAGTGAAGGTCGTCGGTCCGGCCGGCGCGTCTCTGCTCT
CCTCCGCAGCATCATGGCGGAGCCGAGCGGCTCGCCCGTGCACGTCCAGCTTTCCCAGCAGGCGGGCCC
CGGTGACAGCGGGCGGGCGGGCGGGCGGGCCCCGGCCCCGGCCCGGGCACAGGCTGTCGGCTTGCCCC
TCCTGCAGGACCGTACGAGCTGCAGGAGGTTATCGGCAGTGAACCTACTGGTGGTGGTTGAGGCAG
CCCAATGCCAAACCCAGGCAAAAAGTTGTACCATTAAAGCGGATCAACTGAAAAATGCCGAACAGTAG
GGATAAACTATAAAAGAAATTCACCATTGATTCATGGGCACCCCTCCCAACGGTGGACCTATTACCCTT
TTTTGTTGTCAAATAAAATTTTGGCGTGGACATGAATTTCAAGGGGGGTCAGTGTGATCTAAAACACTG
TGACCCCGAGAACACCAAGGATTCGAGAAAAGAAAAACAATCTCTAAGTGTGTTGAGCGCAACACTATC
ACAACGCGCATCACAGATTAGACTGTGTATCTCTGTGGATGATGTAATAAAAAATTTTG
    
```

**Kinase Domain Sequence:** >SC323657 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

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AAAACAGSACKMGAGTWCGGCAGTGGAGCTACTGCTGTGGTTCAGGCAGCCCTATGCAAACCCAGGCAA
GAACGTGTAGCAATAATGCGGATCAACTTGAAAAATGCCAGACCAGTATGGATGAACTATTAAGAA
TTCAAGCCATGAGTCAGTGCAGCCATCCCAACGTAGTACCTATTACACCTCTTTTGGTCAAAGATGA
ACTTTGGCTGGTCATGAAATTAAGTGGAGTTCAATGTTGGA
    
```

**Restriction Sites:** Please inquire

<b>ACCN:</b>	NM_013233
<b>Insert Size:</b>	3160 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, 2008 May p536-548.</a>
<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_013233.1</a> , <a href="#">NP_037365.1</a>
<b>RefSeq Size:</b>	3293 bp
<b>RefSeq ORF:</b>	1644 bp
<b>Locus ID:</b>	27347
<b>UniProt ID:</b>	<a href="#">Q9UEW8</a>
<b>Cytogenetics:</b>	2q24.3
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a serine/threonine kinase that is thought to function in the cellular stress response pathway. The kinase is activated in response to hypotonic stress, leading to phosphorylation of several cation-chloride-coupled cotransporters. The catalytically active kinase specifically activates the p38 MAP kinase pathway, and its interaction with p38 decreases upon cellular stress, suggesting that this kinase may serve as an intermediate in the response to cellular stress. [provided by RefSeq, Jul 2008]