

## Product datasheet for SC323511

### STK25 (NM\_006374) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STK25 (NM_006374) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK25
Synonyms:	SOK1; YSK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323511 sequence for NM_006374 edited (data generated by NextGen Sequencing)

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ATGGCTCACCTCCGGGATTTGCCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTC
ACCAAGCTCGACCGCATTGGCAAGGCTCGTTTGGGAGGTCTACAAGGCATCGATAAC
CACACAAAGGAGGTGGTGGCCATCATGATCATCGACCTGGAGGAGGCCGAGGATGAGATC
GAGGACATCCAGCAGGAGATCACTGTCCTCAGTCAGTGCAGACAGCCCTACATCACCCGC
TACTTTGGCTCCTACCTAAAGAGCACCAAGCTATGGATCATCATGGAGTACCTGGGCGGC
GGCTCAGCACTGGACTTGCTTAAACCAGGTCCCCTGGAGGAGACATACATTGCCACGATC
CTGCGGGAGATTCTGAAGGCTGGATTATCTGCACTCCGAAACGCAAGATCCACCGAGAC
ATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGGACTTTGGG
GTAGCAGGGCAGCTCACAGACACGCAGATTAAGAGGAACACATTCGTGGGCACCCCTTC
TGGATGGCACCTGAGGTCAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCC
CTGGGGATCACAGCCATCGAGCTGGCCAAGGGGGAGCCTCCAAACTCTGACCTCCACCCC
ATGCGCGTCTGTTCCTGATTCCCAAGAACAGCCACCCACACTGGAGGGCCAGCACAGC
AAGCCCTTCAAGGAGTTCGTGGAGGCTGCCTCAACAAAGACCCCGATTCCGGCCACG
GCCAAGGAGCTCCTGAAGCACAAGTTCATCACAGCTACACCAAGAAGACCTCCTTCCTC
ACGGAGCTCATCGACCGCTATAAGCGTGAAGTCAAGAGGGCATGGCGAGGAGTCCAGC
TCTGAGGACTCTGACATTGATGGCGAGGCGGAGGACGGGGAGCAGGGCCCATCTGGAGC
TTCCCCCTACCATCCGGCCGAGTCCACACAGCAAGCTTCAAGGGGACGGCCCTGCAC
AGTTCACAGAAGCTGCGGAGCCCGTCAAGAGGCAGCCGAGGTCCAGTGCCTGTCCAGC
CTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAAGCAGAGCGGCGGAGCGTG
GGTGCCTGGAGGAGCTGGAGAAGCCTTCAGCCTGGCCGAGGAGTCTGCCCGGCATC
TCAGACAAGCTGATGGTGCACCTGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAAC
CACCTGACATCCACCCGCTGA

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Clone variation with respect to NM\_006374.3  
146 a=>t



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_006374 unedited ACCGCCCGTTGAGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGGCGGCCATGGCTCA CCTCCGGGGATTTGCCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTACCAAGCTCGACCGCATT GGCAAGGGCTCGTTTGGGGAGGTCTACAAGGGCATCGATAACACACAAAAGGAGGTGGTGGCCATCATGA TCATCGACCTGCAGGAGGCCGAGGATGAGATCAAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTG CGACAGCCCTACATCACCCGCTACTTTGGCTCCTACCTAAAGAGCACCAAGCTATGGATCATCATGAAT TACCTGGGCAGCGGCTCAGTCTGGACTGGCTAAATCCAGGCCCGGAGGAAACATACATGGCCATTCTCT GCGGAAATTCTGAAGGCCGGAATACCTGCCTCCGACCCCAAATCACCGAAAATAAACCTCCACCTTGC ATCTCAGACACAGGGTATTTGACCTGCGGACTTTGGGATCCAGGACTTCAGGACCCCATATAAGAAAACA TTCTGGGACCCTTTGATGGACTGAGGAATAACATCGGCTAGAATTAAGCGAATTGGTCTGGGTACAGCAT AGCTGCCAAGGGAGCTCAACTGACTCACCAGCGGCTGTCCGATCCAGAACGCCACACTGAGGCACACAGC CTAGATCTGAGCTGCTAAAACGATCGGCACGAAGCTGACAGTTCACTCAGGACCTTTCAGACTACGGTAG CTGATCAG
<b>Kinase Domain Sequence:</b>	>SC323511 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 CCTGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGGCGGCCATGGCTCACCTCCGG GGATTTGCCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTACCAAGCTCGACCGCATTGGCAAGG GCTCGTTTGGGGAGGTCTACAAGGGCATCGATAACACACAAAAG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_006374
<b>Insert Size:</b>	5130 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_006374.3</a> , <a href="#">NP_006365.2</a>
<b>RefSeq Size:</b>	2198 bp

RefSeq ORF: 1281 bp

Locus ID: 10494

UniProt ID: [O00506](#)

Cytogenetics: 2q37.3

Domains: pkinase, TyrKc, S\_TKc

Protein Families: Druggable Genome, Protein Kinase

**Gene Summary:** This gene encodes a member of the germinal centre kinase III (GCK III) subfamily of the sterile 20 superfamily of kinases. The encoded enzyme plays a role in serine-threonine liver kinase B1 (LKB1) signaling pathway to regulate neuronal polarization and morphology of the Golgi apparatus. The protein is translocated from the Golgi apparatus to the nucleus in response to chemical anoxia and plays a role in regulation of cell death. A pseudogene associated with this gene is located on chromosome 18. Multiple alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2012]  
Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 4 and 5 encode the same isoform (1).