

Product datasheet for **SC323691**

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:	>NCBI ORF sequence for NM_006374, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCACCTCCGGGGATTGCCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTCACCAAGCTCG
ACCGCATTGGCAAGGGCTCGTTTGGGGAGGTCTACAAGGGCATCGATAACCCACACAAAGGAGGTGGTGGC
CATCAAGATCATCGACCTGGAGGAGGCCGAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCCTC
AGTCAGTGCACAGCCCTACATCACCCGCTACTTTGGCTCTACCTAAAGAGCACCAAGCTATGGATCA
TCATGGAGTACCTGGCGGGGGCTCAGCACTGGACTTGCTTAAACCAGGTCCCCTGGAGGAGACATACAT
TGCCACGATCCTGCGGGAGATTCTGAAGGGCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGAC
ATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGGACTTTGGGGTAGCAGGGC
AGCTCACAGACACGCAGATTAAGAGGAACACATTCGTGGGCACCCCTTCTGGATGGCACCTGAGGTCAT
CAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGCTGGCCAAG
GGGGAGCCTCAAACCTGACCTCCACCCCATGCGCGTCTGTTCTGATTCCCAAGAACAGCCACCCA
CACTGGAGGGCCAGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCTGCCTCAACAAAGACCCCGATT
CCGGCCCACGGCCAAGGAGCTCCTGAAGCACAAGTTATCACACGCTACACCAAGAAGACCTCCTTCCTC
ACGGAGCTCATCGACCGCTATAAGCGTGAAGTCAAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACT
CTGACATTGATGGCGAGGCGGAGGACGGGGAGCAGGGCCCATCTGGACGTTCCCCCTACCATCCGGCC
GAGTCCACACAGCAAGTTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAG
AGGCAGCCGAGGTCCCAGTGCCTGTCCAGCTGGTCCGGCCCGTTCGGAGAGCTCAAAGAGAAGCACA
AGCAGAGCGGGGAGCGTGGGTGCGCTGGAGGAGCTGGAGAACGCCCTCAGCCTGGCCGAGGAGTCTTG
CCCCGGCATCTCAGACAAGCTGATGGTGCACCTGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAAAC
CACCTGACATCCACCCGCTGA

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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_006374 unedited ACCGCCGTTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGTGCTGCCGCC ACCACCGTTGCTTCGCGGGCTGGGAGGCCCGGGTCCCGGGCGAACAGAGGCTGCGGGTGGGAGCCTTC GCGGGCGCTGCAGAGCGGGCCGGGGAGGCCGGATGGAGCCCCGCGGAGCACTCTCGAGTGGACCCTGA GGAGCTTTCACCAAGCTCGACCGCATTGGCAAGGGCTCGTTTGGGGAGGTCTACAAAGGGCATCGATAA CCACACAAGGAGTGGTGGCCATCATGATCATCGACCCCTGAGGAGGCCGAGGATGAGATCGAGGACATCC AGCAGGAGATCACTTTCCTCAGTCAGTGCAGACGCCCTACATCACCCGCTACTTTGGCTCTACCTAAGG AGCACAGCTTTGGATCATCATGGAGTACCTGGGCGCGCTCAGCCACTGACTTGCTTAATCAGTTCCTGA AGAAACCTAACTTGCCCGATCCTGCCGGAAGATTCTGCGCTGATATCTGAATCTCGACCCAGAATTCC CACCGAACCTCTCAAGCTGCGCCACCTGGCTCATCTCGGACACAGTGTAGACTGTAGACCTGCGGGACA CTTTGTGATCACGGCACTCTCAGACACGCGATATAGAGGAACTCTGTGCACACCTCTCGATAGTGA ACTGAGTACTCTAGCAGTCTGCCTTACATCAAGCGTCATATCTGTGCTGATATCAGCTCTAGACTGCT GCACAGGAACTCTACCTTGGATTCTCCATCGGCCTCTGTTTCGATTCCGAAGCCCCCACTTGAGGGCCG AAGCCCTCTGGAGATTCTGGAGAGCGTCTCAT
Kinase Domain Sequence:	>SC323691 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 CYTGMGCATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAG AATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGTGCTGCCGCCACCACCGT TGCTTCGCGGGCTGGGAGGCCCGGGTCCCGGGCGAACAGAGGCTGCGGGTGGGAGCCTTCGCGGGCGC TGCAGAGCGGGCCGGGGAGGCCGGATGGAGCCCCGCGGAGCAC
Restriction Sites:	Please inquire
ACCN:	NM_006374
Insert Size:	5130 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_006374.3 , NP_006365.2

RefSeq Size:	2198 bp
RefSeq ORF:	1281 bp
Locus ID:	10494
UniProt ID:	<u>O00506</u>
Cytogenetics:	2q37.3
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 4 and 5 encode the same isoform (1).</p>