

Product datasheet for **SC323502**

STK38 (NM_007271) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK38 (NM_007271) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK38
Synonyms:	NDR; NDR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323502 sequence for NM_007271 edited (data generated by NextGen Sequencing)

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ATGGCAATGACAGGCTCAACACCTTGCTCATCCATGAGTAACCACACAAAGGAAAGGGTG
ACAATGACCAAAGTGACACTGGAGAATTTTATAGCAACCTTATCGCTCAACATGAAGAA
CGAGAAATGAGACAAAAGAAGTTAGAAAAGGTGATGGAAGAAGAAGGCCTAAAAGATGAG
GAGAAAACGACTCCGGAGATCAGCACATGCTCGGAAGGAAAACAGAGTTTCTTCGTTTGAAG
AGAACAAGACTTGGATTGGAAGATTTTGTAGTCCTTAAAAGTAATAGGCAGAGGAGCATT
GGTGAGGTACGGCTTGTTCAGAAGAAAGATACGGGACATGTGTATGCAATGATGATACTC
CGTAAAGCAGATATGCTTAAAAAGAGCAGGTTGGCCACATTCGTGCGGAGCGTGACATT
CTAGTGGAGGCAGACAGTTTGTGGGTTGTGAAAATGTTCTATAGTTTTTCAGGATAAGCTA
AACCTCTACCTAATCATGGAGTTCCTGCCTGGAGGGGACATGATGACCTTGTGATGAAA
AAAGACTCTGACAGAAGAGGAGACTCAGTTTTATATAGCAGAAAACAGTATTAGCCATA
GACTCTATTCACCAACTTGGATTATCCACAGAGACATCAAACCAGACAACCTTCTTTTG
GACAGCAAGGGCCATGTGAAACTTCTGACTTTGGTCTTTGCACAGGACTGAAAAAGCA
CATAGGACAGAATTTTATAGGAATCTGAACCACAGCCTCCCCAGTGATTTCACTTTCCAG
AACATGAATTCAAAAGGAAAGCAGAAACCTGGAAAAGAAATAGACGTACAGCTAGCCTTC
TCCACAGTAGGCACTCCTGACTACATTGCTCCTGAGGTGTTTATGCAGACCCGGTACAAC
AAGCTCTGTGATTGGTGGTGCCTTGGGGTGATCATGTATGAGATGCTCATCGGCTACCCA
CCTTTCTGTTCTGAGACCCTCAAGAGACATATAAGAAGTGATGAACTGGAAAGAACT
TTGACTTTTCTCCAGAAGTTCCTATCTGAGAAAGCCAAGGATCTAATTTTGAGGTTCT
TGCTGTGAATGGGAACATAGAATTGGAGCTCCTGGAGTTGAGGAAATAAAAAGTAACTCT
TTTTTTGAAGCGTTGACTGGGAACATATCAGAGAGAGACCTGCTGCAATATCTATTGAA
ATCAAAAGCATTGATGATACCTCAAACCTCGATGAGTTTCCAGAATCTGATATTCTTAAAG
CCAACAGTGGCCACAAGTAATCATCCTGAGACTGACTACAAGAACAAGACTGGGTCTTC
ATCAATTACAGTACAAGCGCTTTGAGGCCTGACTGCAAGGGGGCAATACCTTCTAC
ATGAAAGCAGCAAAATAG
    
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Clone variation with respect to NM_007271.2
 353 a=>t;354 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_007271 unedited

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CCCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTT
AGTGAA
CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTGGGCT
CTGCCAT
GGCAATGACAGGCTCAACACCTTGCTCATCCATGAGTAACCACACAAAGGAAAGGGTGACAA
TGACAAA
GTGACACTGGAGAATTTTATAGCAACCTTATCGCTCAACATGAAGAACGAGAAATGAGACAAA
AGAAGT
TAGAAAAGGTGATGGAAGAAGAAGGCCTAAAAGATGAGGAGAAACGACTCCGGAGATCAGCAC
ATGCTCG
GAAGAAAACAGAGTTTCTTCGTTTGAAGAAGAACAAGACTTTGGATGGGAAGATTTTGTGTC
TAAAA
GTAATAGGCAGAGGAGCATTTGGTGAGGTACGGTTGTTTCAGAGAAAGATCCGGGACAGGTG
TATGCAATG
AATGATACTCGTAAACAAATTGCTTAAAAAGAACAGTTGGCCAATCGGCGGACTGCTTCATGG
GAGCAAAG
TGGGTTGGAAAGTCTATTTCCGAAGCTACCTACAAGTGGATTCCGCTGGGAAGGAACTGTG
TAAAAACCT
GCAAGAAACGTTTTAGAACGTTCTATCTCCATGGATCCGGACTAACAACTTTTGCAAGGCGT
GACTGCC
TGGTTCGAGCTGAAGCCTGCACATTAAGTTGCACGCGCAGATCTCAGGTCCCAGCACTGGA
AAGCGTAG
CTCTGAGGCTGGC
    
```

Kinase Domain Sequence: >SC323502 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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TMGMTTGGATTGGAGWTTTGTAGTCCTTAAAGTAATAGGCAGAGGAGCATTGGTGAGGTACGG
CTTGTTT
AGAAGAAAGATACGGGACATGTGTATGCAATGATGATACTCCGTAAGCAGATATGCTTGA
AAAAGAGCA
GGTTGGCCACATTCGTGCGGAGCGTGACATTCTAGTGGAGGCAGACAGTTTGTGGGTTGTG
AAAATGTTT
TATAGTTTTTCAGGATAAGCTAAACCTCTACCTAATCATGGAGTTC
    
```

Restriction Sites: Please inquire

ACCN:	NM_007271
Insert Size:	3500 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_007271.2 , NP_009202.1
RefSeq Size:	3593 bp
RefSeq ORF:	1398 bp
Locus ID:	11329
UniProt ID:	Q15208
Cytogenetics:	6p21.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene encodes a member of the AGC serine/threonine kinase family of proteins. The kinase activity of this protein is regulated by autophosphorylation and phosphorylation by other upstream kinases. This protein has been shown to function in the cell cycle and apoptosis. This protein has also been found to regulate the protein stability and transcriptional activity of the MYC oncogene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>