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Product datasheet for SC323560

STK3 (NM_006281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK3 (NM_006281) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK3
Synonyms:	KRS1; MST2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006281, the custom clone sequence may differ by one or more nucleotides

ATGGAGCAGCCGCCGGCGCCTAAGAGTAAACTAAAAAAGCTGAGTGAAGACAGTTTGACTAAGCAGCCTG
AAGAAGTTTTTGATGTATTAGAGAAGCTTGGAGAAGGGTCTTATGGAAGTGTATTTAAAGCAATACACAA
GGAATCCGGTCAAGTTGTCGCAATTAAACAAGTACCTGTTGAATCAGATCTTCAGGAAATAATCAAAGAA
ATTTCCATAATGCAGCAATGTGACAGCCCATATGTTGTAAAGTACTATGGCAGTTATTTTAAGAATACAG
ACCTCTGGATTGTTATGGAGTACTGTGGCGCTGGCTCTGTCTCAGACATAATTAGATTACGAAACAAGAC
ATTAATAGAAGATGAAATTGCAACCATTCTTAAATCTACATTGAAAGGACTAGAATATTTGCACTTTATG
AGAAAAATACACAGAGATATAAAAGCTGGAAATATTCTCCTCAATACAGAAGGACATGCAAAATTGGCAG
ATTTTGGAGTGGCTGGTCAGTTAACAGATACAATGGCAAAACGCAATACTGTAATAGGAACTCCATTTTG
GATGGCTCCTGAGGTGATTCAAGAAATAGGCTATAACTGTGTGGCCGACATCTGGTCCCTTGGCATTACT
TCTATAGAAATGGCTGAAGGAAAACCTCCTTATGCTGATATACATCCAATGAGGGCTATTTTTATGATTC
CCACAAATCCACCACCAACATTCAGAAAGCCAGAACTTTGGTCCGATGATTTCACCGATTTTGTTAAAAA
GTGTTTGGTGAAGAATCCTGAGCAGAGAGCTACTGCAACACAACTTTTACAGCATCCTTTTATCAAGAAT
GCCAAACCTGTATCAATATTAAGAGACCTGATCACAGAAGCTATGGAGATCAAAGCTAAAAGACATGAGG
AACAGCAACGAGAATTGGAAGAGGAAGAAGAAAATTCGGATGAAGATGAGCTGGATTCCCACACCATGGT
GAAGACTAGTGTGGAGAGTGTGGGCACCATGCGGGCCACAAGCACGATGAGTGAAGGGGCCCAGACCATG
ATTGAACATAATAGCACGATGTTGGAATCCGACTTGGGGACCATGGTGATAAACAGTGAGGATGAGGAAG
AAGAAGATGGAACTATGAAAAGAAATGCAACCTCACCACAAGTACAAAGACCATCTTTCATGGACTACTT
TGATAAGCAAGACTTCAAGAATAAGAGTCACGAAAACTGTAATCAGAACATGCATGAACCCTTCCCTATG
TCCAAAAACGTTTTTCCTGATAACTGGAAAGTTCCTCAAGATGGAGACTTTGACTTTTTGAAAAATCTAA
GTTTAGAAGAACTACAGATGCGGTTAAAAGCACTGGACCCCATGATGGAACGGGAGATAGAAGAACTTCG
TCAGAGATACACTGCGAAAAGACAGCCCATTCTGGATGCGATGGATGCAAAGAAAAGAAGGCAGCAAAAC
TTTTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_006281 unedited
CCCGCCCGTATCAGCAACTGGGCGGTAGGCGCTGTACGGTTGGGAGGCTCTATATAAGCAGAGCTCGTTT
AGTGAACCGTCAGAATCTTGTAATACGACTCACTATAGGGCGGCCGCGAATACGGCACGAGGCCGCCGTC
CACCAGGCCCCTCTCTCTGTCCCCGGCCGCCATGGAGCAGCCGCCGGCGCCTAAGAGTAAACTAAAAAAG
CTGAGTGAAGACAGTTTGACTAAGCAGCCTGAAGAAGCTTTTGATGTATTAGAGAAGCTTGGAGAAGGGT
CTTATGGAAGTGTATTTAAAGCAATACACAAGGAATCCGGTCAAGTTGTCGCAATTATGCAAGTACCTGT
TGAATCAGATCTTCAGGAAATAATCAAAGAAATTTCCATAATGCAGCATGGTGACAGCCCATATGTTGTA
AAGTACTATGGCAGTTTATTTTAAGAATACCAGACTCTGAATGGTTATGGAAGTACTGGGCCCTGCTTTG
TTTAGACTTATTAGATACGAAACAGACATTATAGAAAATGAATTTGCACCTTCTTAATCCACATGGAAGG
CTAGATTTTTGACTTTTGAAAAATCCCGGATTTAACCTGAAATTCTCTAATACAAAGGACTGCAATGGCA
ATTTGATGCCGGTCTTACGATACAGGCAACGCAACTGTATAGACCCATTGGAGGCCGGGGTACGAATGCT
AACGTGGGCAATTGCCTTGGTATTTTGAAAGCGAGGACCTTGCGTATCCTAGGGCTTTATCAATCACACT
ACACCTGCGATCCAATCACGTGGATCCGAACTGCACTAGCTGAAGACGTAA

Kinase Domain Sequence:

>SC323560 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
CTCTGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC
AGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGTCGCCGTCCACCAGGTCCC
TCTCTCTGTCCCCGGCCGCCATGGAGCAGCCGCCGGCGCCTAAGAGTAAACTAAAAAAGCTGAGTGAAGA
CAGTTTGACTAAGCAGCCTGAAGAAGTTTTTGATGTATTAGAGAA

Restriction Sites: Please inquire

ACCN: NM_006281

Insert Size: 2730 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:
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_006281.1, NP_006272.1

RefSeq Size: 2820 bp

RefSeq ORF: 1476 bp

Locus ID:	6788
UniProt ID:	Q13188
Cytogenetics:	8q22.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	This gene encodes a serine/threonine protein kinase activated by proapoptotic molecules indicating the encoded protein functions as a growth suppressor. Cleavage of the protein product by caspase removes the inhibitory C-terminal portion. The N-terminal portion is transported to the nucleus where it homodimerizes to form the active kinase which promotes the condensation of chromatin during apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012] Transcript Variant: This variant (1) encodes isoform 1.