

Product datasheet for **SC323468**

CSNK1G3 (NM_004384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK1G3 (NM_004384) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSNK1G3
Synonyms:	CKI-gamma 3; CSNK1G3L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004384, the custom clone sequence may differ by one or more nucleotides

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ATGAAAAATAAAAAGAAAGACAAGGACAAATCAGATGATAGAATGGCACGACCTAGTGGTCGATCGGGAC
ACAACACTCGAGGAAGTGGTCTTCATCGTCTGGAGTTTTAATGGTTGGACCTAACTTTAGAGTTGGAAA
AAAAATTGGATGTGGCAATTTGGAGAATTACGATTAGGGAAAAATTTATACACAAATGAATATGTGGCA
ATTAAGTTGGAGCCCATGAAATCAAGAGCACCACAGCTACATTTGGAATACAGATTCTATAAGCAGTTAG
GATCTGGAGATGGTATACCTCAAGTTTACTATTTTCGGCCCTTGTGGTAAATACAATGCTATGGTGTGGA
ACTGCTGGGACCTAGTTTGAAGACTTGTGGTGTGACAGAACATTTTCTCTAAAACAGTTCTC
ATGATAGCTATACAACTGATTTCTCGCATGGAATATGTCCATTCAAAGAAGTTGATATACAGAGATGTAA
AACCTGAGAACTCTTAATAGGACGACCAGGAAACAAAACCCAGCAAGTTATTCACATTATAGATTTTGG
TTTGGCAAAGGAATATATTGATCCGGAGACAAAGAAACACATACCATACAGAGAACAAGAGCCTTACA
GGAACAGCTAGATATATGAGCATAAACACACATTTAGGAAAAGAACAAAGTAGAAGAGACGATTTAGAAG
CTTTAGGTCATATGTTTCATGATTTTCTGAGAGGCAGTCTTCTTGGCAAGGCTTAAAGGCTGACACATT
AAAGGAGAGGTATCAGAAAATTGGAGATACAAAACGGGTACACCAATAGAAGTGTATGTGAAAATTTT
CCAGAAATGGCAACATATCTTCGTTATGTAAGAAGGCTAGATTTTTTTGAAAACCCAGACTATGACTACT
TAAAGAAAGCTTTTTACTGACTTGTGGTGCAGTTCAGCAAGATCCTGCTGTGCATCAAACAGAGAAGCACAT
CAACACAGAGATAAGATGCAACAATCCAAAACAGTTCGGCAGACCCACAGGGCAGCTTGGGACTCCAGC
AGGCAAATCCCCACCATTTGAGAGCTCACCTTGCAGCAGACAGACATGGTGGCTCGGTACAGGTTGTAAG
TTCTACAAATGGAGAGTTAAACACAGATGACCCACCAGGACGTTCAAATGCACCCATCACAGCCCT
ACTGAAGTAGAAGTGATGGATGAAACCAAGTGCTGCTGTTTTTCAAACGAAGGAAAAGGAAAACCATAC
AGCGCCACAAATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_004384 unedited ACCGCCGTTGTGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGCCGCGCCGGGA CCGACCCCTCTGCTCGCGGCCGCGCCTTTGAGCTCTCTATCAATATCAGCTCACATCATTGAAAAGATAA TTTTGAAGACATGTTTTGCTGAAAAGACACTAAGAAAAATTTTACGAATGGGATGAACATGCTCCAGTTA ATTGACTACCTACTGCAATTTGAATGTTAACATTACCCATCTGGTACAGTTACCTAGTGATGTACCTATT TTCACAATACCCTGTTTCAGTGTGCTTGTCTTATTAAAGAAATTCAAAGTGAGTACCGCAAACCTGAT ATGAAAAATAAAAAGAAGACAGGACAAATCAGATGATAGAATGCACGACCTAGTGGTCATCGGGACCCAC CATCGAAGGAACTGGGTCTTCATCGTCCTGAGGTTTAATGGTTGGACCTACCTTTAGAGTTGAAAAAAT TGAATGTGCCATTTTGGAAATTACGATAGGAAAAATTATCCACAACAATTTGCATTTTGG
Kinase Domain Sequence:	>SC323468 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 CKATGMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGCCGCGCCGGGACCGAC CCCTCTGCTCGCGGCCGCGCCTTTGAGCTCTCTATCAATATCAGCTCACATCATTGAAAAGATAATTTTG AAGACATGTTTTGCTGAAAAGACACTAAGAAAAATTTTACGAATG
Restriction Sites:	Please inquire
ACCN:	NM_004384
Insert Size:	2500 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_004384.2 , NP_004375.2
RefSeq Size:	4352 bp
RefSeq ORF:	1344 bp
Locus ID:	1456
UniProt ID:	Q9Y6M4

Cytogenetics:	5q23.2
Domains:	ptkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Hedgehog signaling pathway
Gene Summary:	<p>This gene encodes a member of a family of serine/threonine protein kinases that phosphorylate caseins and other acidic proteins. A related protein in the African clawed frog participates in the transmission of Wnt/beta-catenin signaling. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>