

Product datasheet for **SC323608**

CSNK1G1 (NM_022048) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK1G1 (NM_022048) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSNK1G1
Synonyms:	CK1gamma1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323608 sequence for NM_022048 edited (data generated by NextGen Sequencing)

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ATGGACCATCCTAGTAGGGAAAAGGATGAAAGACAACGGACAACAAACCCATGGCACAA
AGGAGTGCACACTGCTCTCGACCATCTGGCTCCTCATCGTCTCTGGGGTTCTTATGGTG
GGACCCAACTTCAGGGTTGGCAAGAAGATAGGATGTGGGAACCTTCGGAGAGCTCAGATTA
GGTAAAAATCTCTACACCAATGAATATGTAGCAATCAAACCTGGAACCAATAAAATCACGT
GCTCCACAGCTTCATTTAGAGTACAGATTTTATAAACAGCTTGGCAGTGCAGGTGAAGGT
CTCCACAGGTGTATTACTTTGGACCATGTGGGAAATATAATGCCATGGTCTGGAGCTC
CTTGGCCCTAGCTTGGAGACTTGTGGACCTCTGTGACCGAACATTTACTTTGAAGACG
GTGTTAATGATAGCCATCCAGCTGCTTTCTCGAATGGAATACGTGCACTCAAAGAACCTC
ATTTACCGAGATGTCAAGCCAGAGAACCTCCTGATTGGTCGACAAGGCAATAAGAAAGAG
CATGTTATACACATTATAGACTTTGGACTGGCCAAGGAATACATTGACCCCGAAACCAAA
AAACACATACCTTATAGGGAACCAAAAAGTTTAACTGGAAGTCAAGATATATGTCTATC
AACACGCATCTTGGCAAAGAGCAAAGCCGGAGAGATGATTTGGAAGCCCTAGGCCATATG
TTCATGTATTTCTTCGAGGCAGCCTCCCTGGCAAGGACTCAAGGCTGACACATTAATAA
GAGAGATATCAAAAAATTGGTGACACAAAAGGAATACTCCATTGAAGCTCTCTGTGAG
AACTTTCCAGAGGAGATGGCAACCTACCTTCGATATGTGAGGCGACTGGACTTCTTTGAA
AAACCTGATTATGAGTATTTACGGACCTCTTTCACAGACCTCTTTGAAAAGAAAGGCTAC
ACCTTTGACTATGCCTATGATTGGGTTGGGAGACCTATTCTACTCCAGTAGGGTCAGTT
CAGTAGATTCTGGTGCATCTGCAATAACTCGAGAAAGCCACACACATAGGGATCGGCCA
TCAACAACAGCAGCCTCTTCGAAATCAGGTGGTTAGCTCAACCAATGGAGAGCTGAATGTT
GATGATCCACGGGAGCCCACTCCAATGCACCAATCACAGCTCATGCCGAGGTGGAGGTA
GTGGAGGAAGCTAAGTGCTGCTGTTTCTTTAAGAGGAAAAGGAAGAGCTGCTCAGCGC
CACAAGTGA
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Clone variation with respect to NM_022048.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_022048 unedited CCCCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTACTATAGGGCGGCCGCAATTCGGCACCAGGTTACACCTAAGATTG AGACCTAGTGACTACATTTCTACGGGAACAAATAATGGTTTTTCATCTCCCGGAGATACATTACAAAC AAATATGGTGCTAAAAGAACTCCTTACCTTTCTCTGACTACAATTTATTTGGACATACTTTTGTATTGAA GAGAGGTATACATACTGAAGCTACTTGTGTACTATAGGAGACTGTCTGTAGGATCATGGACCATCC TAGTAGGGAAAAGGATGAAAGACAACGGACAATAAAACCCATGGCAACAAGGAGTGCACACTGCTCTC GACCATCTGGCTCCTCATCGTCCCTCTGGGGTTCTTATGGGTGGGACCCCACTTTCAGGGTTGGCAAAG AAGATAGGATGGTGGACCTCCGGAAGAGCTAGATAGGTAAAAATCTCTCCCAATGAATTTGTAGCATT CATGCCTGAAACAATAAATCCCCTTCTCCCGGCTTCATTAATAATCCGATTTATAAAACGCTGGGCAGTG CAGTGAAGGTTTCAAAGTTGATTTCTTTGACCTGGGGGAAATAAATGCCTGGGTCGTGGACTTTTG GCCCTCACTGAGAGCTTTGTTGACCTGTGACCGCACTTCTTTGAACCGGTATAGTACGCACCTCTCTCC AGGGAAGTACTCAAATAACGAGTAGAGCGACTCGAGTGCCAGCATGAGACGTTAAGTCTAGCTGAAC GCGAACCTGGCGGACAGACATTAGAACAGATCAGATCGAGTCTCAC
Kinase Domain Sequence:	>SC323608 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 CTCGMGAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAAATACGACTACTATAGGGCGGCCGCAATTCGGCACCAGGTTACACCTAAGATTGAGACCT AGTGACTACATTTCTACGGGAACAAATAAATGGTTTTTCATCTCCCGGAGATACATTACAAACAATAT GGTGCTAAAAGAACTCCTTACCTTTCTCTGACTACAATTTATTTG
Restriction Sites:	Please inquire
ACCN:	NM_022048
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_022048.3 , NP_071331.2
RefSeq Size:	8163 bp
RefSeq ORF:	1269 bp

Locus ID:	53944
UniProt ID:	Q9HCP0
Cytogenetics:	15q22.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Hedgehog signaling pathway
Gene Summary:	<p>This gene encodes a member of the casein kinase I gene family. This family is comprised of serine/threonine kinases that phosphorylate acidic proteins such as caseins. The encoded kinase plays a role in cell cycle checkpoint arrest in response to stalled replication forks by phosphorylating Claspin. A mutation in this gene may be associated with non-syndromic early-onset epilepsy (NSEOE). [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the shortest isoform (1). Both variants 1 and 4 encode the same 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>