

## Product datasheet for **SC311378**

### 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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311378 representing NM_022048. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCATCCTAGTAGGAAAAGGATGAAAGACAACGGACAACAAACCCATGGCACAAAGGAGTGCA
CACTGCTCTCGACCATCTGGCTCCTCATCGTCCTCTGGGGTTCTTATGGTGGGACCCAACTTCAGGGTT
GGCAAGAAGATAGGATGTGGAACTTCGGAGAGCTCAGATTAGGTAAAAATCTCTACACCAATGAATAT
GTAGCAATCAAACCTGGAACCAATAAAATCACGTGCTCCACAGCTTCATTTAGAGTACAGATTTTATAAA
CAGCTTGGCAGTGCAGGTGAAGGTCTCCACAGGTGTATTACTTTGGACCATGTGGGAAATATAATGCC
ATGGTGTGGAGCTCCTTGGCCCTAGCTTGGAGACTTGTGGACCTCTGTGACCGAACATTTACTTTG
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TACCGAGATGTCAAGCCAGAGAATTCCTGATTGGTCGACAAGGCAATAAGAAAGAGCATGTTATACAC
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AGAGATGATTTGGAAGCCCTAGGCCATATGTTCATGTATTTCTTCGAGGCAGCCTCCCTTGCAAGGA
CTCAAGGCTGACACATTAAGAGAGATATCAAAAAATGGTGACACCAAAAGGAATACTCCCATTTGAA
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GCATCTGCAATAACTCGAGAAAGCCACACACATAGGGATCGGCCATCACACAGCAGCCTCTTCAAAAT
CAGGTGGTTAGCTCAACCAATGGAGAGCTGAATGTTGATGATCCACGGGAGCCCACTCCAATGCACCA
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AAGAAGACTGCTCAGCGCCACAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_022048
<b>Insert Size:</b>	1269 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022048.4</a>
<b>RefSeq Size:</b>	8179 bp
<b>RefSeq ORF:</b>	1269 bp
<b>Locus ID:</b>	53944
<b>UniProt ID:</b>	<a href="#">Q9HCP0</a>
<b>Cytogenetics:</b>	15q22.31
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Hedgehog signaling pathway
<b>MW:</b>	48.5 kDa

**Gene Summary:**

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]

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.