

Product datasheet for **SC301590**

CSNK1G1 (NM_001011664) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CSNK1G1 (NM_001011664) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CSNK1G1 |
| Synonyms: | casein kinase 1, gamma 1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene ORF sequence for NM_001011664 edited
 ATGGACCATCCTAGTAGGGAAAAGGATGAAAGACAACGGACAACAAACCCATGGCACAA
 AGGAGTGCACACTGCTCTCGACCATCTGGCTCCTCATCGTCCTCTGGGGTTCTTATGGTG
 GGACCCAACTTTCAGGGTTGGCAAGAAGATAGGATGTGGGAACCTCGGAGAGCTCAGATTA
 GGTAAAAATCTCTACACCAATGAATATGTAGCAATCAAACCTGGAACCAATAAAATCACGT
 GCTCCACAGCTTCATTTAGAGTACAGATTTTATAAACAGCTTGGCAGTGCAGGTGAAGGT
 CTCCCACAGGTGATTACTTTGGACCATGTGGGAAATATAATGCCATGGTGCTGGAGCTC
 CTTGGCCCTAGCTTGGAGGACTTGTGGACCTCTGTGACCGAACATTTACTTTGAAGACG
 GTGTTAATGATAGCCATCCAGCTGCTTTCTCGAATGGAATACGTGCACTCAAAGAACCTC
 ATTTACCGAGATGTCAAGCCAGAGAACCTCCTGATTGGTCGACAAGGCAATAAGAAAGAG
 CATGTTATACACATTATAGACTTTGGACTGGCCAAGGAATACATTGACCCCGAAACCAAA
 AAACACATACCTTATAGGGAACACAAAAGTTTAACTGGAAGTGAAGATATATGTCTATC
 AACACGCATCTTGGCAAAGAGCAAAAGCCGGAGAGATGATTTGGAAGCCCTAGGCCATATG
 TTCATGTATTTTCCTTCGAGGCAGCCTCCCCTGGCAAGGACTCAAGGCTGACACATTA
 GAGAGATATCAAAAAATTGGTGACACAAAAGGAATACTCCCATTGAAGCTCTCTGTGAG
 AACTTTCCAGAGGAGATGGCAACCTACCTTCGATATGTCAGGCGACTGGACTTCTTTGAA
 AAACCTGATTATGAGTATTTACGGACCCTTTCACAGACCTCTTTGAAAAGAAAGGCTAC
 ACCTTTGACTATGCCTATGATTGGGTTGGGAGACCTATTCCTACTCCAGTAGGGTCAGTT
 CACGTAGATTCTGGTGCATCTGCAATAACTCGAGAAAGCCACACATAGGGATCGGCCA
 TCACAACAGCAGCCTCTTCGAAATCAGGTGGTTAGCTCAACCAATGGAGAGCTGAATGTT
 GATGATCCACGGGAGCCCACTCCAATGCACCAATCACAGCTCATGCCGAGGTGGAGGTA
 GTGGAGGAAGCTAAGTGCTGCTGTTTCTTTAAGAGGAAAAGGAAGACTGCTCAGCGC
 CACAAGTGACCAGTGCCTCCCAGGAGTCCCTCAGGCCCTGGGGACTCTGACTCAATTGTAC
 CTGCAGCTCCTGCCATTCTC



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|-------------------------------------|---|
| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_001011664 unedited</p> <pre>GCATTATGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGTTACCTAAG ATTGAGACCTAGTGACTACANNTTCTACGGGAACAAATAAATGGTTTTTCATCTCCCG GAGATACATTACAAACAAATATGGTGCTAAAAGAACTCCTTACCTTTCTCTGACTACAAT TTATTTGGACATACTTTTGTATTGAAGAGAGGTATACATACTGAAGCTACTTGCTGTACT ATAGGAGACTCTGTCTGTAGGATCATGGACCATCCTAGTAGGGAAAAGGATGAAAGACA ACGGACAACATAACCCATGGCACAAAGGAGTGCACACTGCTCTCGACCATCTGGCTCCTC ATCGTCTCTGGGGTTCTTATGGTGGGACCCAACCTCAGGGTTGGCAAGAAGATAGGATG TGGAACTTCGGAGAGCTCAGATTAGGTAAAAATCTCTACACCAATGAATATGTAGCAAT CAAACCTGGAACCAATAAAATCACGTGCTCCACAGCTTCATTTAGAGTACAGATTTTATAA ACAGCTTGGCAGTGCAGGTGAAGGTCTCCACAGGTGATTACTTTGGACCATGTGGGAA ATATAATGCCATGGTGTGGAGCTCCTTGGCCCTAGCTTGGAGGACTTGTGGACCTCTG TGACCGAACATTTACTTTGAAGACGGTGTAAATGATAGCCATCCAGCTGCTTTCTCGAAT GGAATACGTGCACTCAAAGAACCTCATTACCGAGATGTCAAGCCAGAGAACTTCCTGAT TGGTCGACAAGGCATAAGAAAGAGCATGTTATACACATTATAGACTNTGGACTGGGCCAA GAATACATTGACCCCGAACCAAAAACACATACCTTATANGGAACACANAAGTTAACTGG AACTGNCAGAATATGTCTATCACACGCATCTTGGCAAGAGCAAGCCGAAGATGATTGGA AGCCTAGCCATAGT</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' genomic read for NM_001011664 unedited</p> <pre>CCCAATACTTGNCCGCGGCCGAATTTACAGCGAGTTTTTTTTTTTTTTTTTTTTTTAGAC AGAGTCTTTCTCTGTTGCCAGCCTGGAGTGCAGTGGTGCATCTCGGCTCACTGCAACT TCTGCCTCCCAGGCTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACGG GAGCATGCCACCATGCCAGCTAATTTTTGAATTTTTGTAGAGACGGGGTTTCACCATG TTGGCCAGGCTGGTCTCGAACTCTTGACCTCACATGATCCAATTGCCTTGGCCTCCCAAA CTGCTGGGATTACAGGCGTGAGCCACTGCACCTGGCCCCCCTCTGCCCTCTCTTGAGAG GCAAGGCATTTTCTATACAGGGGTGAGGAAAAGTTAACTTTCTATACAGTAAGTTAGCA CTGCCCAAATCCCAACTGACAAACGATGTAACATTTAGTGCTAGGGCTGTAACCACTAGG TAATGGCAAGGACATAAATCCCAATATTCACAGTCCTTGGGGGAAGGGGTGAAATTTG TATCTCCCTGCCACTTTATGTTTCATATATCCAACATTTATCGAACTGACATATTACCA TCTTTTCATAAAGCTAAGCAGGCTTGATGCCCGTGAATGCAATTCCTTACCCAAGGTC AATGGAACCAGATGAAGCCAGTACCTTTGACCCATGGAAGTACTCCTGCTCCTCGCTGC AAGGCACATCACTGGAATTTCTCACGAAAGGCCCTATCAACAAAAATCCCCCCCCCT TCTGAACAAAAGACAGCCTGCCCTTAAACCGAGGGGAAACCTCTATGGTCCCAACCT TAGACTAAGTCCCCCCCACCCGGGCTCCAGGGTCTTTCATCCAAAACAAAACCTTT TTCCTGGCGCAAAGGCC</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_001011664 |
| Insert Size: | 4400 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: | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference. |
| 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_001011664.2](#), [NP_001011664.1](#)

RefSeq Size: 8089 bp

RefSeq ORF: 1269 bp

Locus ID: 53944

Cytogenetics: 15q22.31

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Hedgehog signaling pathway

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]