

Product datasheet for **SC323364**

CK1 epsilon (CSNK1E) (NM_152221) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CK1 epsilon (CSNK1E) (NM_152221) Human Untagged Clone
Tag:	Tag Free
Symbol:	CK1 epsilon
Synonyms:	CK1e; CK1epsilon; HCK1E
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152221, the custom clone sequence may differ by one or more nucleotides

```
ATGGAGCTACGTGTGGGAACAAGTACCGCTGGGACGGAAGATCGGGAGCGGGTCTTCGGAGATATCT
ACCTGGGTGCCAACATCGCCTCTGGTGAGGAAGTCGCCATCAAGCTGGAGTGTGTGAAGACAAAGCACCC
CCAGCTGCACATCGAGAGCAAGTCTACAAGATGATGCAGGGTGGCGTGGGGATCCCGTCCATCAAGTGG
TGCGGAGCTGAGGGCGACTACAACGTGATGGTCATGGAGCTGCTGGGGCCTAGCCTCGAGGACCTGTTCA
ACTTCTGTTCCCGCAAATTCAGCCTCAAGACGGTGTCTTGGCCGACCAGATGATCAGCCGCATCGA
GTATATCCACTCCAAGAACTTCATCCACGGGACGTCAAGCCCGACAACCTCCTCATGGGGCTGGGAAG
AAGGGCAACCTGGTCTACATCATCGACTTCGGCCTGGCCAAGAAGTACCGGGACGCCCGCACCCACCAGC
ACATTCCTACCGGAAAACAAGAACCTGACCGGCACGGCCCGCTACGCTTCCATCAACACGCACCTGGG
CATTGAGCAAAGCCGTCGAGATGACCTGGAGAGCCTGGGCTACGTGCTCATGTACTTCAACCTGGGCTCC
CTGCCCTGGCAGGGGCTCAAAGCAGCCACCAAGCGCCAGAAGTATGAACGGATCAGCGAGAAGAAGATGT
CAACGCCCATCGAGGTCTCTGCAAAGGCTATCCCTCCGAATTCTCAACATACCTCAACTTCTGCCGCTC
CCTGCGGTTTGACGACAAGCCCGACTACTTACCTACGTGAGCTCTTCCGCAACCTCTTCCACCGGCAG
GGCTTCTCCTATGACTACGTCTTTGACTGGAACATGCTGAAATTCGGTGCAGCCCGGAATCCCGAGGATG
TGGACCGGGAGCGCGGAGAACACGAACGCGAGGAGAGGATGGGGCAGCTACGGGGTCCGCGACCCGAGC
CTGCCCTGGCCACCCACGGGGCACTGCCAACCGGCTCCGAGTGCCCGGAGCCCGTGGCTCC
ACGCCAGCTCCCGCATCCAGCCGCTGGCAACTTCTCCAGAGCGATCTCGCGGTGACCGGGGAGA
GGAAGGTGAGTATGAGGCTGCACAGGGGTGCGCCCGCAACGTCTCCTCCTCAGACCTACTGGCGGCA
AGAGGTCTCCCGATCCAGCCTCACAGACAAGTGTGCCATTTGACCATCTCGGGAAGTGA
```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_152221 unedited CCGCCCCGTCTCAGCAAATGGGCGGTAGGCGGTACGGTGTGGAGGTCTATATAAGCAGAGCTCGTTTAGT GAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGGAGAGGCTGGC GCGCCGGGCGGCTCCGCGAATCTCCGGCATCCGCCCCGGCGGGCCGCCCGCCCGCGGAGCCCCCGG AGCAGTGGCCCGGCATCGGCGCCTTCCCGGCGGCAAGAGTGAGCCATGGAGCTACGTGTGGGGAACAAG TACCGCCTGGGACGGAAGATCGGGAGCGGGTCTTCGGAGATATCTACCTGGGTGCCAACATCGCCTCTG GTGAGGGAAGTCGCCATCATGCTGGAGTGTGTGAAGACAAGCAACCCAGCTGCACATCGAGAGCAAGT TCTACAAGATGATGCAGGTGCGTGGGATCCCGTCCATCAAGTGTGCGGAGCTGAGGCGACTACAAGTGA TGGTCATGAGCTGCTGGGCCTAGCTCCGAGACCTTGTTCACTTCTTGTCCCGCAAATTCAGCCTCAGA ACGTGCTGCCTCTGCGAACAGAATGAATCAGCCGCATCCAGAGTATAATTCCATCCAGAACTTCATCACC GGACGTACGCGAACACTTCTATGGGCTTAAAAAGGGCCACCTTGCTCATCTACTGCATTTGCCCTTGCC AAAGATTACGGAGACGCGGACCCCCACAGCATTTCCTATACCGGAAACAAGAAGTGAACCGCCGCG CCGTTACGTCTTCTACACGACCTTTGATTATGACACACGCGCAATGATACCTGGAACCTGGTCCATGGC TCATGACTCTACGGGTCTTGCCTGAGGGTCTCAGGCCAGGCCGAATGTACGGACTTCAGAGAAGTTG CCTGTCTCAGAGATCTCCTGATACACTGTTGTCAT
Kinase Domain Sequence:	>SC323364 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 CSATGMGCATGGGCGGTAGGCKGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAG AATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGGAGAGGCTGGCGCGCCGGCG GCTCCGCGAATCTCCGGCATCCGCCCCGGCGGGCCGCCCGCCCGCGGCGAGCCCCCGAGCAGTGGCC CGGCATCGGCGCCTTCCCGGCGGCAAGAGTGAGCCATGGAGCTA
Restriction Sites:	Please inquire
ACCN:	NM_152221
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_152221.2 , NP_689407.1
RefSeq Size:	2820 bp

RefSeq ORF: 1251 bp
Locus ID: 1454
UniProt ID: [P49674](#)
Cytogenetics: 22q13.1

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Circadian rhythm - mammal, Hedgehog signaling pathway, Wnt signaling pathway

Gene Summary: The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. This protein has been shown to phosphorylate period, a circadian rhythm protein. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (1) represents the longer and predominant transcript. Both variants 1 and 2 encode the same protein.