

## Product datasheet for **SC320172**

### 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:	CK1ε; CK1epsilon; HCK1E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_152221.2  
 CCGCCCCGGCAGCCCCGAGCAGTGGCCCCGCATCGGCGCCTTCCCGCGGGCAAGAG  
 TGAGCCATGGAGCTACGTGTGGGAACAAGTACCGCCTGGGACGGAAGATCGGGAGCGGG  
 TCCTTCGGAGATATCTACCTGGGTGCCAACATCGCCTCTGGTGAGGAAGTCGCCATCAAG  
 CTGGAGTGTGTGAAGACAAGCACCCCCAGCTGCACATCGAGAGCAAGTTCTACAAGATG  
 ATGCAGGGTGGCGTGGGGATCCCGTCCATCAAGTGGTGCAGGAGCTGAGGGCGACTACAAC  
 GTGATGGTCATGGAGCTGCTGGGGCCTAGCCTCGAGGACCTGTTCAACTTCTGTTCCCGC  
 AAATTCAGCCTCAAGACGGTGTCTCTTGGCCGACCAGATGATCAGCCGCATCGAGTAT  
 ATCCACTCCAAGAACTTCATCCACGGGACGTCAAGCCCGACAACCTTCTCATGGGGCTG  
 GGAAGAAGGGCAACCTGGTCTACATCATCGACTTCGGCCTGGCCAAGAAGTACCGGGAC  
 GCCCGCACCCACCAGCACATTCCCTACCGGAAAACAAGAACCTGACCGGCACGGCCCCG  
 TACGCTTCCATCAACACGCACCTGGGCATTGAGCAAAAGCCGTCGAGATGACCTGGAGAGC  
 CTGGGCTACGTGCTCATGTACTTCAACCTGGGCTCCCTGCCCTGGCAGGGGCTCAAAGCA  
 GCCACCAAGCGCCAGAAGTATGAACGGATCAGCGAGAAGAAGATGTCAACGCCCATCGAG  
 GTCCTCTGCAAAGGCTATCCCTCCGAATTCTCAACATACTCAACTTCTGCCGCTCCCTG  
 CGGTTTGACGACAAGCCCGACTACTCTTACCTACGTACGTCTTCCGCAACCTCTTCCAC  
 CGGCAGGGCTTCTCCTATGACTACGTCTTTGACTGGAACATGTGAAATTCGGTGACGCC  
 CGGAATCCCGAGGATGTGGACCGGGAGCGGCGAGAACACGAACCGGAGGAGAGGATGGGG  
 CAGCTACGGGGGTCCGCGACCCGAGCCCTGCCCCCTGGCCACCCACGGGGGCCACTGCC  
 AACCGGCTCCGCAAGTCCGCGGAGCCCGTGGCTTCCACGCGCAGCCTCCCGCATCCAGCCG  
 GCTGGCAATACTTCTCCAGAGCGATCTCGCGGTCGACCGGGAGAGGAAGGTGAGTATG  
 AGGCTGCACAGGGGTGCGCCCGCAACGTCTCCTCCTCAGACCTCACTGGGCGGCAAGAG  
 GTCTCCCGGATCCAGCCTCACAGACAAGTGTGCCATTTGACCATCTCGGGAAGTGAGGA  
 GAGCCCCATTGGACCAGTGTGCTTAGTGTCTTCACTGATTTTCTTTAAAAA  
 AAAAAAAAAA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_152221
<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>	<u><a href="#">NM_152221.2</a></u> , <u><a href="#">NP_689407.1</a></u>
<b>RefSeq Size:</b>	2820 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	1454
<b>UniProt ID:</b>	<u><a href="#">P49674</a></u>
<b>Cytogenetics:</b>	22q13.1
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Circadian rhythm - mammal, Hedgehog signaling pathway, Wnt signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer and predominant transcript. Both variants 1 and 2 encode the same protein.</p>