

## Product datasheet for **SC125335**

### Casein Kinase 1 delta (CSNK1D) (NM\_139062) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Casein Kinase 1 delta (CSNK1D) (NM_139062) Human Untagged Clone
Tag:	Tag Free
Symbol:	Casein Kinase 1 delta
Synonyms:	ASPS; CKI-delta; CKId; CKIdelta; FASPS2; HCKID
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_139062 edited  
 ATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGATCGGCAGCGCTCCTTC  
 GGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGTTGCCATCAAGCTTGAA  
 TGTGTCAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATGATGCAG  
 GGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCGAGGGGGACTACAACGTCATG  
 GTGATGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTC  
 AGCCTCAAACCGTCTGCTGCTTGCTGACCAAATGATCAGTCGCATCGAATACATTCAT  
 TCAAAGAACTTCATCCACCGGGATGTGAAGCCAGACAACCTCCTCATGGGCCTGGGGAAG  
 AAGGGCAACCTGGTGTACATCATCGACTTCGGGCTGGCCAAGAAGTACCGGGATGCACGC  
 ACCCACCAGCACATCCCCTATCGTGAGAACAAGAACCTCACGGGGACGGCGGGTACGCC  
 TCCATCAACACGCACCTTGAATTGAACAATCCCGAAGAGATGACTTGGAGTCTCTGGGC  
 TACGTGCTAATGTACTTCAACCTGGGCTCTCTCCCTGGCAGGGGCTGAAGGCTGCCACC  
 AAGAGACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTTG  
 TGTAAAGGCTACCCTTCCGAATTTGCCACATACCTGAATTTCTGCCGTTCCCTTGGCTTTT  
 GACGACAAGCCTGACTACTCGTACCTGCGGCAGCTTTTCCGGAATCTGTTCCATCGCCAG  
 GGCTTCTCCTATGACTACGTGTTGACTGGAACATGCTCAAAATTTGGTGCCAGCCGGGCC  
 GCCGATGACGCCGAGCGGGAGCGCAGGGACCGAGAGGAGCGGCTGAGACACTCGCGGAAC  
 CCGGCTACCCGCGGCCTCCCTTCCACAGCCTCCGGCCGCTGCGGGGACGCAGGAAGTG  
 GCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCGTC  
 TCCGGCATGGAGAGAGAGCGGAAAAGTGAGTATGCGGCTGCACCGGGGGCCCCCGTCAAC  
 ATCTCCTCGTCCGACCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGAAT  
 AGCATTCTTTTGAACACCACGGCAAGTAG



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_139062 unedited  
 NNNGGTTACAATTGTATACGACTACTATAGGCGGCCGGAATCGGCACGAGGCGGCTC  
 CTTTAGCAGCTGAAAGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGAGAG  
 GGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGCGGCGGCGCTCGGACTGTCCATCCGC  
 CCCGTATTGAGGCGCTGGGAGCGCGGGGCGACAGGAAAGCGATGGTAAAGCGGGGCCG  
 TGAGGGGGCGGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAGCGGCGCCGCCATGG  
 GAGTTCAGACCCAGGAAGCGGCCGGAGGGCAGGAGCGAATCGGGCCGCCGCCATGG  
 AGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGATCGGCAGCGGCTCCTTCGGAG  
 ACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGTTGCCATCAAGCTTGAATGTG  
 TCAAAACCAAACACCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATGATGCAGGGAG  
 GAGTGGGCATCCCACCATCAGATGGTGCNNGGCAGAGGGGGACTACAACGTCATGGTGA  
 TGGAGCTGCTNNGGCCAAGCCTGGAGGACCTTCAACTTCTGCTCCAGGAAATTCAGCC  
 TCAAAACCGTNTGCTGCTTGTGACCAAATGATCAGTCGCATCGAATACATTATTCAA  
 AGAACTTCATCCACCGGATGTGAAGCCAGACAATTCCTCATGGCCTGNNGGAAGAAG  
 GNCAACCTGNTGTACATCATCGACTTCGNCTGGNCAAAGAATACCGGNATGCACGCACC  
 CACAGCACATNCNCTATCGTGAGACAAGAACTNCNNGGACNNGGCGTACGCTNCATCAC  
 ACGACCTTGAAATGACATA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_139062 unedited  
 TCNCGCAAATTACTGTGNACCGCGCCGTATNCTANGACTCGNGTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTCAAATTTAAGCCAATAATTTTTAGCAAAATGATACAAAAT  
 GTCTTAACCAAGTAAAAAATTGGTAGTTACAGTGAATCGTCAGGGAGTACAGGGCGGCC  
 ACCACTGGAGGGAGCTGAGGCCCTGAAAAGGAGTCTGATTCTCTGCAATTCTCTCTCTG  
 CTTTTCTCCAGCCCCGTTACAACCGAGTTCAGTGGGGGGCCGAGTGCAGCCCCAGC  
 GGTGGCAGCTCTTGAGTCTGTCCGTTTGTATGTTTTCCCCCACAAAGCGTCGCTGGGTGA  
 GTGGCCTGAAAAGCTCCCGGTGTTAACATTTTCGATCCTAGACCGGGGACGTGTCCTAG  
 TAAAGCCATTGGTAACAGAGTAAATCAGCCATGCATTGTCTGCCCTTACAGCAATAAGG  
 AGAGTTTCATCGGTGCACGACAGACTGAAGACCACTGGAAGCCACCCGACCAGGAATCC  
 AGTGCTGCCTCCGATGGGAGACGAGCAGCTACTTGCCGTGGTGTTCGAAAGGAATGCTA  
 TTCTGTGAGGTGGACATGCGAGAGGTATCTTGTGCGCCTGTGAGGTCGGACGAGGAGATG  
 TTGACGGGGGCCCGCGGTGCAGCCGCACTACTCTTTCCGCTCTCTCTCCATGCCGGAG  
 ACGGGCCGGGGGGAGGTGTTAACNTGTGTGAGTAGGGTAGGGTTTTTTTTNNNNNNNT  
 AACTNTTTTTTTGTGCTCCCCCGCAGGCNGGCCGGGCCCTTNTNCAAGGAACGCCCCCG  
 GTCNCCCGGCTTCGCCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_139062

**Insert Size:**

2500 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_139062.1](#), [NP\\_620693.1](#)

**RefSeq Size:** 2106 bp

**RefSeq ORF:** 1230 bp

**Locus ID:** 1453

**UniProt ID:** [P48730](#)

**Cytogenetics:** 17q25.3

**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Circadian rhythm - mammal, Gap junction, Hedgehog signaling pathway

**Gene Summary:**

This gene is a member of the casein kinase I (CKI) gene family whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein may also be involved in the regulation of apoptosis, circadian rhythm, microtubule dynamics, chromosome segregation, and p53-mediated effects on growth. The encoded protein is highly similar to the mouse and rat CK1 delta homologs. Three transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Feb 2014]

Transcript Variant: This variant (2) has an additional exon at the 3' end compared to transcript variant 1. This results in a shorter isoform (2) with a different C-terminus compared to isoform 1.