

Product datasheet for **SC323403**

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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323403 sequence for NM_139062 edited (data generated by NextGen Sequencing)

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ATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGATCGGCAGCGGCTCCTTC
GGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGTTGCCATCATGCTTGAA
TGTGTCAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATGATGCAG
GGAGGAGTGGGCATCCCCACCATCAGATGGTGC GG GGCAGAGGGGGACTACAACGTCATG
GTGATGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTC
AGCCTCAAACCGTCTGCTGCTTGCTGACCAAATGATCAGTCGCATCGAATACATTCAT
TCAAAGAACTTCATCCACCGGGATGTGAAGCCAGACAACCTTCTCATGGGCCTGGGGAAG
AAGGGCAACCTGGTGTACATCATCGACTTCGGGCTGGCCAAGAAGTACCGGGATGCACGC
ACCCACCAGCACATCCCCTATCGTGAGAACAAGAACCTCACGGGACGGCGCGGTACGCC
TCCATCAACACGCACCTTGAATTGAACAATCCCGAAGAGATGACTTGGAGTCTCTGGGC
TACGTGCTAATGTA CT TCAACCTGGGCTCTCTCCCTGGCAGGGGCTGAAGGCTGCCACC
AAGAGACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTG
TGTAAAGGCTACCCTTCCGAATTTGCCACATACCTGAATTTTGCCGTTCTTGGGTTTT
GACGACAAGCCTGACTACTCGTACCTGCGGCAGCTTTTCCGGAATCTGTTCCATCGCCAG
GGCTTCTCCTATGACTACGTGTTTCGACTGGAACATGCTCAAATTTGGTGCCAGCCGGGCC
GCCGATGACGCCGAGCGGGAGCGCAGGGACCGAGAGGAGCGGCTGAGACACTCGCGGAAC
CCGGTACCCGCGGCTCCCTTCCACAGCCTCCGGCCGCTCGGGGGACGCAGGAAGTG
GCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCGTC
TCCGGCATGGAGAGAGCGGAAAGTGAGTATGCGGCTGCACCGCGGGGCCCCCGTCAAC
ATCTCCTCGTCCGACCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGAAT
AGCATTCTTTTGAACACCACGGCAAGTAG

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Clone variation with respect to NM_139062.2
113 a=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_139062 unedited CCCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGCTCCTTTAGGC AGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGAGAGGGCAAGCGGGACCGGT AGGGGCCGGAGCAGCGGCGGCGGCTCGGACTGTCCATCCGCCCGTATTGAGGCGCTGGGAGCGGCG GGGCGACAGAAAGCGATGGTGAAGCGGGCCGTGAGGGGGGGCGGGAGCCGGGAGCCGGGACCTGTA GTATCGGCAGCAGCGGCGCCCGCTCCCAGAAGTTCAGAACCAGGAGCCGGCCGGGAGGGGAGGGAG CGGAATCCGGGCCGCGCCCGCTGGGAGCCTTAAAATTCGGGACAAGGAACCGGCGGGGCGGAGAAAT CGGCACCGGTTTCCTTCGAGCATTCTTATCTCGGTACGACATTGCTGCAGGAAAAAAGTTGCATCATG CTGGATGGGTGTCAAACCAAACTCTGGGCTCCACTTGAGCGCAAATTCACAATGTAGTGCGGGGGG GGTGTGGGACTCCACTAACAAAGGGCGGGCGCAAGGGGGATCACCTGTTAGGGGAGGGGCTCGGTGG GGACACTCTGAAAGCC
Kinase Domain Sequence:	>SC323403 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 CSAATGMCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGT CAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGCTCCTTTAGGCAGCT GAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGAGAGGGCAAGCGGGACCGGTAGG GCCGGAGCAGCGGCGGCGGCTCGGACTGTCCATCCGCCCGT
Restriction Sites:	Please inquire
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 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
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:

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.