

Product datasheet for **RG202436**

CK1 epsilon (CSNK1E) (NM_152221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CK1 epsilon (CSNK1E) (NM_152221) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CK1 epsilon
Synonyms:	CK1ε; CK1εpsilon; HCK1E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202436 representing NM_152221 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTACGTGTGGGAAACAAGTACCGCCTGGGACGGAAGATCGGGAGCGGGTCTTCGGAGATATCT
ACCTGGGTGCCAACATCGCCTCTGGTGAGGAAGTCGCCATCAAGCTGGAGTGTGTGAAGACAAAGCACCC
CCAGCTGCACATCGAGAGCAAGTCTACAAGATGATGCAGGGTGGCGTGGGGATCCCGTCCATCAAGTGG
TGGGAGCTGAGGGCGACTACAACGTGATGGTCATGGAGCTGCTGGGCCAGCCTCGAGGACCTGTTCA
ACTTCTGTCCCGCAAATTCAGCCTCAAGACGGTCTGCTCTTGGCCGACCAGATGATCAGCCGCATCGA
GTATATCCAATCCAAGAATTCATCCACCGGGAGCTCAAGCCCGACAATTCCTCATGGGGCTGGGGAAG
AAGGGCAACCTGGTCTACATCATCGACTTCGGCCTGGCCAAGAAGTACCGGGACGCCCGCACCCACCAGC
ACATTCCTACCGGGAAAACAAGAACCTGACCGGCACGGCCCGCTACGCTTCCATCAACACGCACCTGGG
CATTGAGCAAAGCCGTCGAGATGACCTGGAGAGCCTGGGTACGTGCTCATGTACTTCAACCTGGGCTCC
CTGCCCTGGCAGGGGCTCAAAGCAGCCACCAAGCGCCAGAAGTATGAACGGATCAGCGAGAAGAAGATGT
CAACGCCCATCGAGGTCTCTGCAAAGGCTATCCCTCCGAATTCCAACATACCTCAACTTCTGCCGCTC
CCTGCGGTTTGACGACAAGCCCGACTACTCTTACCTACGTCAGCTCTTCCGCAACCTCTTCCACCGGCAG
GGCTTCTCCTATGACTACGTCTTTGACTGGAACATGCTGAAATTCGGTGCAGCCCGGAATCCCGAGGATG
TGGACCGGAGCGCGAGAACACGAACCGGAGGAGAGGATGGGGCAGCTACGGGGGTCCGCGACCCGAGC
CCTGCCCTGGCCACCCACGGGGGCCACTGCCAACCGGCTCCGCAAGTCCCGCCGAGCCCGTGGCTTCC
ACGCCAGCCTCCCGCATCCAGCCGGTGGCAATACTTCTCCAGAGCGATCTCGCGGGTCCAGCCGGGAGA
GGAAGGTGAGTATGAGGCTGCACAGGGGTGCGCCCGCCAACGTCTCCTCCTCAGACCTCACTGGCGGCA
AGAGGTCTCCCGATCCAGCCTCACAGACAAGTGTGCCATTTGACCATCTCGGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202436 representing NM_152221
 Red=Cloning site Green=Tags(s)

MELRVGNKYRLGRKIGSGSFGDIYLGANIASGEEVAIKLECVKTKHPQLHIESKFYKMMQGGVIGIPSIKW
 CGAEGDYNVMVMEELLGPSLEDLNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFMGLGK
 KGNLVYIIDFGLAKKYRDARTHQHIPYRENKNTGTARYASINHLGIEQSRDDLESGLYVLMYFNLGS
 LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
 GFSYDYVFDWNMLKFGAARNPEDVDRERREHEREERMQLRGSATRALPPGPPTGATANRLRSAEPVAS
 TPASRIQPAGNTSPRAISRVDREKRVSMRLHRGAPANVSSSDLTGRQEVSRIPASQTSVFPDHLGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152221

ORF Size: 1248 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_152221.3](#)

RefSeq Size: 2820 bp

RefSeq ORF: 1251 bp

Locus ID: 1454

UniProt ID: [P49674](#)

Cytogenetics: 22q13.1

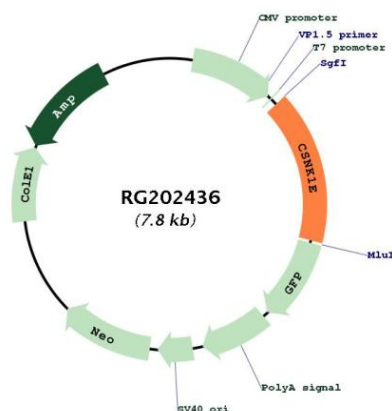
Domains: pkinase, TyrKc, S_TKc

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]

Product images:



Circular map for RG202436