

## Product datasheet for **RC233621**

### Casein Kinase 1 alpha (CSNK1A1) (NM\_001271742) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Casein Kinase 1 alpha (CSNK1A1) (NM_001271742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casein Kinase 1 alpha
Synonyms:	CK1; CK1a; CK1a; HEL-S-77p; HLCDGP1; PRO2975
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233621 representing NM_001271742 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTTCTGGGACCTAGCCTCGAAGACCTCTCAATTTCTGTTCAAGAAGGTTCAACATGAAAACCTG  
TACTTATGTTAGCTGACCAGATGATCAGTAGAATTGAATATGTGCATACAAAGAATTTTATACACAGAGA  
CATTAACCAGATAACTTCCTAATGGGTATTGGGCGTCACTGTAATAAGTGTGTTAGAAATCTCCAGTGGG  
AAGAGGAAAAGAAGCATGACTGTTAGTACTTCTCAGGACCCATCTTTCTCAGGATTAACCAGTTATTCC  
TTATTGATTTTGGTTTGGCCAAAAGTACAGAGACAACAGGACAAGGCAACACATACCATACAGAGAAGA  
TAAAAACCTCACTGGCACTGCCGATATGCTAGCATCAATGCACATCTTGGTATTGAGCAGAGTCCCGGA  
GATGACATGGAATCATTAGGATATGTTTTGATGTATTTAATAGAACCAGCCTGCCATGGCAAGGGCTAA  
AGGCTGCAACAAAGAAACAAAAATATGAAAAGATTAGTAAAAGAAGATGTCCACGCCTGTTGAAGTTTT  
ATGTAAGGGGTTTCTGCAGAAATTTGCGATGTAATAACTATTGTGCGGGCTACGCTTTGAGGAAGCC  
CCAGATTACATGTATCTGAGGCAGCTATTCCGATTTCTTTTCAGGACCCTGAACCATCAATGACTACA  
CATTTGATTGGACAATGTTAAAGCAGAAAGCAGCACAGGCAGCCCTCTCCAGTGGGCAGGGTCAGCA  
GGCCAAAACCCACAGGCAAGCAAACCTGACAAAACCAAGAGTAACATGAAAGGTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001271742.2](#)

**RefSeq Size:** 2100 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 1452

**UniProt ID:** [P48729](#)

**Cytogenetics:** 5q32

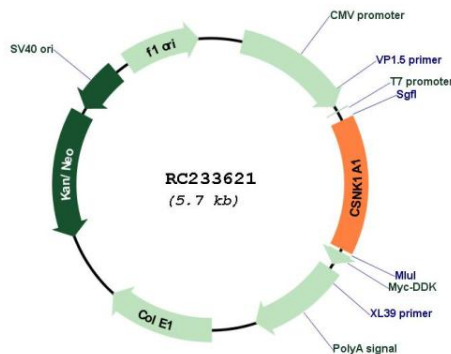
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

**Protein Pathways:** Hedgehog signaling pathway, Wnt signaling pathway

**MW:** 32.6 kDa

**Gene Summary:** Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at 'Ser-45'. May phosphorylate PER1 and PER2. May play a role in segregating chromosomes during mitosis (PubMed:11955436, PubMed:1409656, PubMed:18305108). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed:23902688).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC233621