

Product datasheet for SC118967

Casein Kinase 1 alpha (CSNK1A1) (NM_001892) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casein Kinase 1 alpha (CSNK1A1) (NM_001892) Human Untagged Clone
Tag:	Tag Free
Symbol:	Casein Kinase 1 alpha
Synonyms:	CK1; CK1a; CK1a; HEL-S-77p; HLCDGP1; PRO2975
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118967 sequence for NM_001892 edited (data generated by NextGen Sequencing)

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ATGGCGAGTAGCAGCGGCTCCAAGGCTGAATTCATTGTCGGAGGAAATATAAACTGGTA
CGGAAGATCGGGTCTGGCTCCTTCGGGGACATCTATTTGGCGATCAACATCACCAACGGC
GAGGAAGTGGCAGTGAAGCTAGAATCTCAGAAGGCCAGGCATCCCCAGTTGCTGTACGAG
AGCAAGCTCTATAAGATTCTTCAAGGTGGGGTTGGCATCCCCACATACGGTGGTATGGT
CAGGAAAAAGACTACAATGTACTAGTCATGGATCTTCTGGGACCTAGCCTCGAAGACCTC
TTCAATTTCTGTTCAAGAAGGTTCACAATGAAAAGTACTTATGTTAGCTGACCAGATG
ATCAGTAGAATTGAATATGTGCATACAAAGAATTTATACACAGAGACATTAACCAGAT
AACTTCCTAATGGGTATTGGGCGTCACTGTAATAAGTTATTCCTTATTGATTTTGGTTT
GCCAAAAAGTACAGAGACAACAGGACAAGGCAACACATACCATACAGAGAAGATAAAAC
CTCACTGGCACTGCCCGATATGCTAGCATCAATGCACATCTTGGTATTGAGCAGAGTCGC
CGAGATGACATGGAATCATTAGGATATGTTTTGATGTATTTAATAGAACCAGCCTGCCA
TGGCAAGGGCTAAAGGCTGCAACAAAGAAACAAAAATATGAAAAGATTAGTGAAAAGAAG
ATGTCCACGCCTGTTGAAGTTTTATGTAAGGGGTTTCTCTGCAGAAATTTGCGATGACTTA
AACTATTGTCGTGGGCTACGCTTTGAGGAAGCCCCAGATTACATGTATCTGAGGCAGCTA
TTCCGCATTCTTTTCAGGACCCTGAACCATCAATGACTACACATTTGATTGGACAATG
TTAAAGCAGAAAGCAGCACAGCAGGCAGCCTCTCCAGTGGGCAGGGTCAGCAGGCCCAA
ACCCCCACAGGCAAGCAAAGTACAAAACCAAGAGTAACATGAAAAGGTTTCTAA

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Clone variation with respect to NM_001892.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001892 unedited</p> <pre>GGTTCATACATTGTAACGACTCACTAAGGCGGGCCGGAATTCGCACGGGGACAGGGGT CCCTCTGGGCCGGAGCCGGCGGCAGTGGTGGCAGCGGTATCGCCGCCCTAGCTCACCGCG CCCCTTTTCCAGCCCGCAGCTCGCCGCGCAAGCGAGGCAGCGGGCCGCGCCGAGAAACA AGTGGCCCAGCCTGGTAACCGCCGAGAAGCCCTTCAAACTGCGGCCTGGCAAAAAGAA ACCTGACTGAGCGGGGTGATCAGGTTCCCTCTGTGATTCTGGGCCCGAACCCTGGT AAAGCCCTCCGTGTTCCGTTTCCCTGCCGCCCTCCGTCAGCCTTGCCTAGTGTAGGAGC CCCGAGGCCTCCGTCCTTTCCAGAGGTGTCGGGGCTTGGCCCCAGCCTCCATCTTCGT CTCTCAGGATGGCGAGTAGCAGCGGCTCCAAGGCTGAATTCATTGTCGGAGGAAATATA AACTGGTACGGAAGATCGGGTCTGGCTCCTTCGGGGACATCTATTTGGCGATCAACATCA CCAACGGCGAGGAAGTGGCAGTGAAGCTAGAATCTCAGAAGGCCAGGCATCCCCAGTTGC TGTACGAGAGCAAGCTCTATAAGATTCTCAAGGTGGGGGTTGGCATCCCCACATACG GGTGGTATGGGTGAGGAAAAAGACTACAATGACTAGTCATGGATCTTCTGGGACCTAG CCTCGAAGACCTTTCAATTTCTGTTCAAGAAAGTTCACAATGNAAACTGTACTTATGTT AGCTGACCAGATGATCAGTAGAATTGAATATGTGCATACNAAGAATTTTATACACAGAGA CATTAAACCAGAATACTTCTATGGGGTATTTGGGCGTCACTGTNATAAAGTTATCCTTA TGGATTTTGGTTTTGCCAANAAGGTACAGAGACCACAGGGACAGGCAACCCATACCAT ACAGAGAAGATAAAAACCTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001892 unedited</p> <pre>ATGGACCGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTCAGTTTTAGTT TTTTAATGAACTTGTAACAAAAAAGCTCCCATTTCAAAAATAAAAAACAAATCCCAGATCA TATAGATGTTTACAGTGATTACATTTATCTAAGCAACATACATACATGTTTCAAGTTGTAAG ATGTTAACTAAATTTCTGTGACAAATATGCTTTTTTTTTTAAATACCAAGAACATTATAGAG TTAATGCAGAGTCTTAAGGATAATCTAGTAGTCACTAAGTTTTTCTTAAGTCTTCACTTT AAATGCTGTTATTTCTAGCACAATTAAGCAGGCAGAGTCTTTCATATGCTCAAACACTGG AATCTTTGGTTGCTACCATATCAGCTGGCTTGCAGACAAGAAGCCAACCATTTTAAAGAT GTTTTAAGTGAACAACCTGCAAACCCAGGGATGGAAAAACCTAAGAATGCACAATTGT GAGCATTTAAACAACATCACAACCTGTGGCTGAAGACTGTTTCATGCCGTTCTTCTGAAATG AGATCTCAAAGCAGTATAGTTCAAAAACAAAAGTTTTAAACAAATAATTGGCATATGCACA ATTTCTCCACCAATTGTTGTGTGTCAACCATTTAGTTAACTTTTCCACTTGAAAAAATGC ATTAGAAAACCGACACCATGTTTCACTATCTCAGTTAATATTCAAAATTACAGAGGCTA CAACTCATGATACAGCTTCAACCAATGCTGCCCAGAGTCAGCTTATACTGAATTAAGTTC TTTACACAAGGAAATGGTTGGCCCAANCACTGGCTAGTGTCTTATGAACATAAATTCTA GAATTGGGGGAGAAACAATGCTGCCTCGAATCATTGCGTCTGCTCTTCCGGTCCCAAATA ATGGCTAAAAACCTTATGTACCTTTGGTTTTGCAATCGCCTGCCTGGGGGTTTGGGCC CTCTGAACCTGCCACCTGAAAAAGTTTCTGCTGGGCCGCTTTTT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001892
Insert Size:	2630 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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_001892.4 , NP_001883.4
RefSeq Size:	3065 bp
RefSeq ORF:	1014 bp
Locus ID:	1452
UniProt ID:	P48729
Cytogenetics:	5q32
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Hedgehog signaling pathway, Wnt signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame internal exon, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>