

Product datasheet for **SC302351**

Casein Kinase 1 alpha (CSNK1A1) (NM_001025105) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casein Kinase 1 alpha (CSNK1A1) (NM_001025105) 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 sequence for NM_001025105 edited ATGGCCAGTAGCAGCGGCTCCAAGGCTGAATTCATTGTCGGAGGAAATATAAACTGGTA CGGAAGATCGGGTCTGGCTCCTTCGGGGACATCTATTTGGCGATCAACATCACCAACGGC GAGGAAGTGCCAGTGAAGCTAGAATCTCAGAAGGCCAGGCATCCCCAGTTGCTGTACGAG AGCAAGCTCTATAAGATTCTTCAAGGTGGGTTGGCATCCCCACATACGGTGGTATGGT CAGGAAAAAGACTACAATGTACTAGTCATGGATCTTCTGGGACCTAGCCTCGAAGACCTC TTCAATTTCTGTTCAAGAAGGTTACAATGAAAAGTACTTATGTTAGCTGACCAGATG ATCAGTAGAATTGAATATGTGCATACAAAGAATTTTATACACAGAGACATTAACCAGAT AACTTCCTAATGGGTATTGGGCGTCACTGTAATAAGTGTGTTAGAATCTCCAGTGGGGAAG AGGAAAAGAAGCATGACTGTTAGTACTTCTCAGGACCCATCTTTCTCAGGATTAACCAG TTATTCCTTATTGATTTGGTTTGGCCAAAAGTACAGAGACAACAGGACAAGGCAACAC ATACCATACAGAGAAGATAAAAACCTCACTGGCACTGCCCGATATGCTAGCATCAATGCA CATCTTGGTATTGAGCAGAGTCGCCGAGATGACATGGAATCATTAGGATATGTTTTGATG TATTTTAAATAGAACCAGCCTGCCATGGCAAGGGCTAAAGGCTGCAACAAAGAAACAAAA TATGAAAAGATTAGTAAAAGAAGATGTCCACGCCTGTTGAAGTTTTATGTAAGGGGTTT CCTGCAGAATTTGCGATGTACTTAACTATTGTCGTGGGTACGCTTTGAGGAAGCCCCA GATTACATGTATCTGAGGCAGCTATTCCGCATTCTTTTCAGGACCCTGAACCATCAATAT GACTACACATTTGATTGGACAATGTTAAAGCAGAAAGCAGCACAGCAGGCAGCCTCTTCC AGTGGGCAGGGTCAGCAGGCCCAACCCCCACAGGCAAGCAAACAGCAAAAACCAAGAGT AACATGAAAGGTTTCTAA
Restriction Sites:	Please inquire
ACCN:	NM_001025105
Insert Size:	1900 bp



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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).
OTI Annotation:	The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_001025105.1.
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:	<u>NM_001025105.1, NP_001020276.1</u>
RefSeq Size:	3149 bp
RefSeq ORF:	1098 bp
Locus ID:	1452
UniProt ID:	<u>P48729</u>
Cytogenetics:	5q32
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 (1) represents the longest transcript and encodes the longest isoform (1).</p>