

Product datasheet for SC323685

CSK (NM_004383) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSK (NM_004383) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323685 sequence for NM_004383 edited (data generated by NextGen Sequencing)

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ATGTCAGCAATACAGGCCGCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACCTC
CACGGCACTGCCGAGCAGGACCTGCCCTTCTGCAAAGGAGACGTGCTCACCATTGTGGCC
GTCACCAAGGACCCCAACTGGTACAAAGCCAAAAACAAGGTGGGCCGTGAGGGCATCATC
CCAGCCAACTACGTCCAGAAGCGGGAGGGTGTGAAGGCGGGTACCAAACCTCAGCCTCATG
CCTTGGTTCCACGGCAAGATCACACGGGAGCAGGCTGAGCGGCTTCTGTACCCGCCGGAG
ACAGGCCCTGTTCTGGTGGCGGAGAGCACCAACTACCCCGGAGACTACACGCTGTGCGTG
AGCTGCGACGGCAAGGTGGAGCACTACCGCATCATGTACCATGCCAGCAAGCTCAGCATC
GACGAGGAGGTGTAACCTTTGAGAACCTCATGCAGCTGGTGGAGCACTACACCTCAGACGCA
GATGGACTGTACGCGCCTCATTAAACCAAGGTGATGGAGGGCAGTGGCGGCCGAGG
GATGAGTTCTACCGCAGCGGCTGGGCCCTGAACATGAAGGAGCTGAAGCTGCTGCAGACC
ATCGGGAAGGGGAGTTCGGAGACGTGATGCTGGGCGATTACCGAGGGAACAAAGTCGCC
GTCATGTGCATTAAGAACGACGCCACTGCCAGGCCTTCTGGCTGAAGCCTCAGTCATG
ACGCAACTGCGGCATAGCAACCTGGTGCAGCTCCTGGGCGTGATCGTGGAGGAGAAGGGC
GGGCTCTACATCGTCACTGAGTACATGGCCAAGGGGAGCCTTGTGGACTACCTGCGGTCT
AGGGGTCGGTCAGTGTGGGCGGAGACTGTCTCCTCAAGTTCTCGCTAGATGTCTGCGAG
GCCATGGAATACCTGGAGGGCAACAATTTCTGTCATCGAGACCTGGCTGCCCGCAATGTG
CTGGTGTCTGAGGACAACGTGGCCAAGGTGAGCGACTTTGGTCTACCAAGGAGGCGTCC
AGCACCCAGGACACGGGCAAGCTGCCAGTCAAGTGGACAGCCCTGAGGCCCTGAGAGAG
AAGAAATTCTCCACTAAGTCTGACGTGTGGAGTTTCGGAATCCTTCTCTGGGAAATCTAC
TCCTTTGGGCGAGTGCCTTATCCAAGAATCCCTGAAGGACGTGCTCCCTCGGGTGGAG
AAGGGCTACAAGATGGATGCCCCGACGGCTGCCCGCCCGCAGTCTATGAAGTCATGAAG
AACTGCTGGCACCTGGACGCCCATGCGGCCCTCCTTCTACAGCTCCGAGAGCAGCTT
GAGCACATCAAAACCCACGAGCTGCACCTGTGA

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Clone variation with respect to NM_004383.2
210 c=>t;665 a=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_004383 unedited ACGCCCCTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTACTATAGGGCGGCCGCAATTCGGCAGGAGCCTCGTGCCGAATT CGGCACGAGGGCGGCCCGATCGAGCGTCCGGGGCGGCCCGGAGCCAGCGCGACGTTCCAAAATCGA ACCTCAGTGGCGGCGCTCGGAAGCGAACTCTGCCGGGGCCGCGCGGCTACATTGTTTCTCCCCCGA CTCCCTCCGCCCCCTTCCCCCGCTTTCTCCCTCCGCGACCCGGGCGTGCCTCCGTCGCCCTCCCTGCCT CTGCCTGGCGGGTCCCCCTCCTCCCCCTCCTCCTTGCACCCCATAACCTCTTTTGTACCCGACCCCT GTGGACCCCTGGGCGCCCTTCCCTCCCTCCCTTGGACCGCATTGGAACCCGTCGCCGAGCCCGGTT GAAGGCCCCCGGGGCAAAGTTGGCCCCGACCCCGCAGTTGCCCCAGAAAAGCTTTTATTGTTCCC AGTTTGAAGGGTGGGGCTTTTACGGGACATTGGGGGGGACGCCAGAAAACCTCCGAAAAAAGATGTGC CCAACACGGGCCCGCGGGGCCATCCGTGCCAAAAGTGTGGCAATTTAAATTTACGGGACTGTGCA AAAACGAGACGTGCTTTGCGAAGGAGAAATGTCTCACTTTTGGGGCCCGCCAGAGCCCCCTGGTGC AAAAGCACAACACGTGGGGGCCGAGGGGGTCTTCCCCCCTACTTCTCAAACCCGAGGTGTG TAAGACGTATCACACATCATCCTATTGCCGTGGTGTCTCCGGCGGATATCTACGGGACAGCGTGAT CAGCCTTTTTTACACCCGAGAAAGCCTGTTCTGTGTGGTGGAAAACCATACTACGAGAGCATACT AACCTGCGTCTTGAGCTGCTCACGCAAGGTGTACACATTCCAGCACTATGTAGATGCGCGCCAGG
Kinase Domain Sequence:	>SC323685 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 CGCTGACTGACTGAAGGAGCTGAGCTGCTGCAGACCATCGGAAGGGGGAGTTCGGAGACKTGATGCTGG GCGATTACCGAGGGAACAAAGTCGCCGTCATGTGCATTAAGAACGACGCCACTGCCAGGCCCTTCTGGC TGAAGCCTCAGTCATGACGCAACTGCGGCATAGCAACCTGGTGCAGCTCCTGGGCGTGATCGTGGAGGAG AAGGGCGGGCTCTACATGCTCACTGAGTACATGGCCAAGGGGAGC
Restriction Sites:	Please inquire
ACCN:	NM_004383
Insert Size:	2500 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).
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:	<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_004383.1, NP_004374.1</u>
RefSeq Size:	2420 bp
RefSeq ORF:	1353 bp
Locus ID:	1445
UniProt ID:	<u>P41240</u>
Cytogenetics:	15q24.1
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, Neurotrophin signaling pathway, Regulation of actin cytoskeleton
Gene Summary:	<p>The protein encoded by this gene is involved in multiple pathways, including the regulation of Src family kinases. It plays an important role in T-cell activation through its association with the protein encoded by the protein tyrosine phosphatase, non-receptor type 22 (PTPN22) gene. This protein also phosphorylates C-terminal tyrosine residues on multiple substrates, including the protein encoded by the SRC proto-oncogene, non-receptor tyrosine kinase gene. Phosphorylation suppresses the kinase activity of the Src family tyrosine kinases. An intronic polymorphism (rs34933034) in this gene has been found to affect B-cell activation and is associated with systemic lupus erythematosus (SLE). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein.</p>