

Product datasheet for RC210758

CSK (NM_004383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSK (NM_004383) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

OriGene Technologies, Inc.

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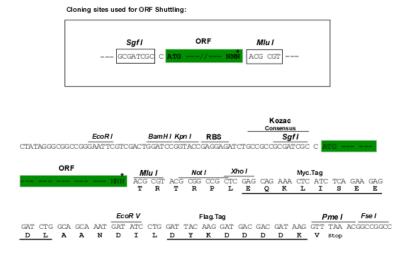
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ORF Nucleotide Sequence:	<pre>>RC210758 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCAGCAATACAGGCCGCCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACTTCCACGGCACTG CCGAGCAGGACCTGCCCTTCTGCAAAGGAGAGCGTGCTCACCATTGTGGCCGTCACCAAGGACCCCAACTG GTACAAAGCCAAAAAACAAGGTGGGCCGTGAGGGCATCATCCCAGCCAACTACGTCCAGAAGCGGGAGGCG GTGAAGGCGGGTACCAAACTCAGCCTCATGCCTTGGTTCCACGGCAAGATCACACGGGAAGCAGCAGGCTGAGC GCTTTCGTACCCGCCGGAAGACAGGCCGTGTTCCTGGTGCGGGAGAGCACCAACTACCCCGGAGACTACAC GCTGTGCGTGAGCTGCGACGGCAAGGTGGAGCACTACCGCATCATGTACCATGCCAGCAAGCTCAGCATC GACGAGGAGGTGTACTTTGAGAACCTCATGCAGCTGGTGGAGCACTACACCTCAGACGCAGATGGACTCT GTACGCGCCTCATTAAACCAAAGGTCATGGAAGGGCACCACGGGGCGCCAGGATGAGTTCTACCGCAGCAG CTGGGCCCTCAATAAACAAAGGTCATGGAGGGCACCACTGGGGGGCACCAGGAGGTTCTACCGCAGCGG CTGGGCCCTCAACATGAAGGAGCTGAAGCTGCTGCAGACCATCGGGAAGGGGGAAGTTCGGAGACCGTGC CTGGGCGATTACCGAGGGAACAAAGTCGCCGCTCAAGTGCATCAGGGGAAGGGGGAGTTCGGAGACCGTGC GGAGAAGGGCGGGCTCTACATGACACTGCGGCATAGCCATGGGGAGCCTTGTGGACTACCTGCGGGCA GGAGAAGGGCGGGCTCTACATCGTCACTGAGTACATGGCCAAGGGGAGCCTTGTGGACTACCTGCGGCT AGGGGTCGGTCAGTCGTGGCGGAGACTGTCCTCCAAGTGCCGCCGCAATGTCTGCGAGGCCATGGGAC GGCAAGGGCGGGCTCTACATCGTCCACCAAGGAGCGTCCAGGGCAACGGGCAACGGGCAACGT GGCCAAGGTCAGCGCGCTGGGCGGCACCAGGGCTCCAGCACCGGGCAACGGGCAACGT GGCCAAGGCCAGCTTTGGTCTCACCAAGGAGGCGTCCAGCACCGGGCAACGGGCAAGGTGCCAGTC AAGTGGACAGCCCCTGAGAGACAAGAAGAAATTCTCCACTAAGTCTGACGGCGAGCTGCCCGCA ACGTGGAGAAAGGGCTACAAGATGGATGCCCCCGGACGCCCCGCAGGCCAAGGTGCCGGCCATGGAA TCCTTCTCTGGGAAATCTACTCCTTTGGGCGAGGCGCCCCCGCAGCCCCGCAGGCCAGGCGCCATGAAG AACTGCTGGACAAAGGCTACAAGATGGATGCCCCCGACGGCTCCAGCACGCCCGCAGCTCTATGAAGCCATGAA AACTGCTGGACAACATGGACGCCCCCCGACGGCTCCCCCGCAGGCCTGAAGGACGTCCCC TCGGGTGAGAAAGGGCTACAAGATGGATGCCCCCGCCCGC
	ACGCGTACGCGGCCGCCCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC210758 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWYKAKNKVGREGIIPANYVQKREG VKAGTKLSLMPWFHGKITREQAERLLYPPETGLFLVRESTNYPGDYTLCVSCDGKVEHYRIMYHASKLSI DEEVYFENLMQLVEHYTSDADGLCTRLIKPKVMEGTVAAQDEFYRSGWALNMKELKLLQTIGKGEFGDVM LGDYRGNKVAVKCIKNDATAQAFLAEASVMTQLRHSNLVQLLGVIVEEKGGLYIVTEYMAKGSLVDYLRS RGRSVLGGDCLLKFSLDVCEAMEYLEGNNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPV KWTAPEALREKKFSTKSDVWSFGILLWEIYSFGRVPYPRIPLKDVVPRVEKGYKMDAPDGCPPAVYEVMK NCWHLDAAMRPSFLQLREQLEHIKTHELHL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6195_h02.zip
Restriction Sites:	Sgfl-Mlul

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Cloning Scheme:



* The last codon before the Stop codon of the ORF

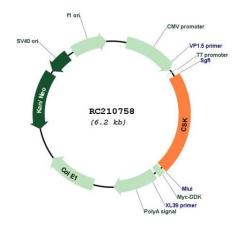
ACCN:	NM_004383
ORF Size:	1350 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 004383.2</u>
RefSeq Size:	2755 bp
RefSeq ORF:	1353 bp
Locus ID:	1445
UniProt ID:	<u>P41240</u>

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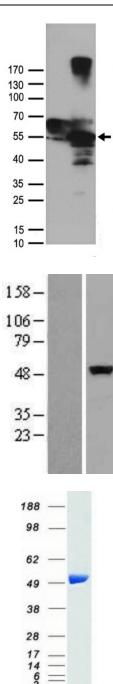
Cytogenetics: Domains:	15q24.1 pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, Neurotrophin signaling pathway, Regulation of actin cytoskeleton
MW:	50.7 kDa
Gene Summary:	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]

Product images:



Circular map for RC210758

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CSK (Cat# RC210758, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CSK antibody (Cat# [TA890053]). Positive lysates [LY401395] (100ug) and [LC401395] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY426695]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225740] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified CSK protein (Cat# [TP310758]). The protein was produced from HEK293T cells transfected with CSK cDNA clone (Cat# RC210758) using MegaTran 2.0 (Cat# [TT210002]).

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