

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 Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn



CSK (NM_004383) Human Tagged ORF Clone - RC210758

ORF Nucleotide Sequence:

>RC210758 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTCAGCAATACAGGCCGCCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACTTCCACGGCACTG CCGAGCAGGACCTGCCCTTCTGCAAAGGAGACGTGCTCACCATTGTGGCCGTCACCAAGGACCCCAACTG GTACAAAGCCAAAAACAAGGTGGGCCGTGAGGGCATCATCCCAGCCAACTACGTCCAGAAGCGGGAGGGC GTGAAGGCGGGTACCAAACTCAGCCTCATGCCTTGGTTCCACGGCAAGATCACACGGGAGCAGGCTGAGC GGCTTCTGTACCCGCCGGAGACAGGCCTGTTCCTGGTGCGGAGAGCACCAACTACCCCGGAGACTACAC GCTGTGCGTGAGCTGCGACGCAAGGTGGAGCACTACCGCATCATGTACCATGCCAGCAAGCTCAGCATC GACGAGGAGGTGTACTTTGAGAACCTCATGCAGCTGGTGGAGCACTACACCTCAGACGCAGATGGACTCT GTACGCGCCTCATTAAACCAAAGGTCATGGAGGGCACAGTGGCGGCCCAGGATGAGTTCTACCGCAGCGG CTGGGCCCTGAACATGAAGGAGCTGAAGCTGCTGCAGACCATCGGGAAGGGGGAGTTCGGAGACGTGATG CTGGGCGATTACCGAGGGAACAAGTCGCCGTCAAGTGCATTAAGAACGACGCCACTGCCCAGGCCTTCC TGGCTGAAGCCTCAGTCATGACGCAACTGCGGCATAGCAACCTGGTGCAGCTCCTGGGCGTGATCGTGGA GGAGAAGGGCGGGCTCTACATCGTCACTGAGTACATGGCCAAGGGGAGCCTTGTGGACTACCTGCGGTCT AGGGGTCGGTCAGTGCTGGGCGGAGACTGTCTCCTCAAGTTCTCGCTAGATGTCTGCGAGGCCATGGAAT ACCTGGAGGGCAACAATTTCGTGCATCGAGACCTGGCTGCCCGCAATGTGCTGGTGTCTGAGGACAACGT GGCCAAGGTCAGCGACTTTGGTCTCACCAAGGAGGCGTCCAGCACCCAGGACACGGGCAAGCTGCCAGTC AAGTGGACAGCCCCTGAGGCCCTGAGAGAGAAAATTCTCCACTAAGTCTGACGTGTGGAGTTTCGGAA TCCTTCTCGGGAAATCTACTCCTTTGGGCGAGTGCCTTATCCAAGAATTCCCCTGAAGGACGTCGTCCC AAACCCACGAGCTGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210758 protein sequence
Red=Cloning site Green=Tags(s)

MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWYKAKNKVGREGIIPANYVQKREG VKAGTKLSLMPWFHGKITREQAERLLYPPETGLFLVRESTNYPGDYTLCVSCDGKVEHYRIMYHASKLSI DEEVYFENLMQLVEHYTSDADGLCTRLIKPKVMEGTVAAQDEFYRSGWALNMKELKLLQTIGKGEFGDVM LGDYRGNKVAVKCIKNDATAQAFLAEASVMTQLRHSNLVQLLGVIVEEKGGLYIVTEYMAKGSLVDYLRS RGRSVLGGDCLLKFSLDVCEAMEYLEGNNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPV KWTAPEALREKKFSTKSDVWSFGILLWEIYSFGRVPYPRIPLKDVVPRVEKGYKMDAPDGCPPAVYEVMK NCWHLDAAMRPSFLQLREQLEHIKTHELHL

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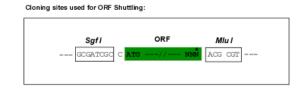
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

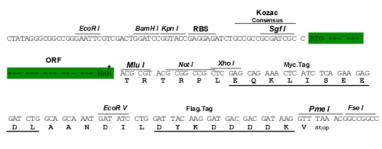
Chromatograms: https://cdn.origene.com/chromatograms/mk6195 h02.zip

Restriction Sites: Sgfl-Mlul



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. More info

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: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 004383.2</u>

RefSeq Size: 2755 bp
RefSeq ORF: 1353 bp
Locus ID: 1445

CSK (NM_004383) Human Tagged ORF Clone - RC210758

UniProt ID: P41240
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,

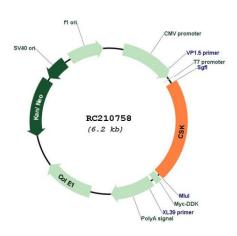
Neurotrophin signaling pathway, Regulation of actin cytoskeleton

MW: 50.7 kDa

Gene Summary: The protein encoded by this gene is involved in multiple pathways, including the regulation of

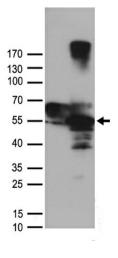
Src family kinases. It plays an important role in T-cell activation through its association with the protein encoded by the protein tyrosine phosphatase, non-receptor type 22 (PTPN22) gene. This protein also phosphorylates C-terminal tyrosine residues on multiple substrates, including the protein encoded 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]

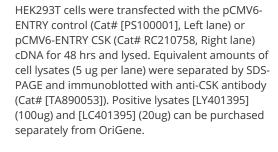
Product images:

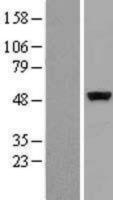


Circular map for RC210758

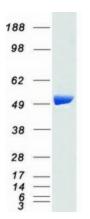








Western blot validation of overexpression lysate (Cat# [LY426695]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225740] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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]).