

Product datasheet for **MR207189**

Csk (NM_007783) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csk (NM_007783) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csk
Synonyms:	AW212630; p50CSK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207189 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCAATACAGGCCCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACCTCCATGGCACTG
 CTGAGCAAGACCTTCCCTTCTGCAAAGGAGATGTGCTCACCATCGTGGCTGTACCAAGGACCCCAACTG
 GTACAAAGCCAAAAACAAGTGGGCCGTGAGGGCATCATCCAGCCAACATGTCCAGAAGCGTGAGGGT
 GTGAAGGCAGGCACAAACTCAGCCTTATGCCCTGGTTCCACGGCAAGATCACACGGGAGCAGGCCGAGC
 GGCTTCTTTACCCACCAGAGACAGGCCTGTTCTCGTGGGAAAGCACCACACTACCCTGGAGACTACAC
 ACTGTGTGTGAGCTGTGAGGGCAAGGTGGAGCACTACCGCATCATGTATCATGCGAGCAAGCTGAGCATT
 GATGAGGAGGTACTTTGAGAACCTCATGCAGCTGGTGGAGCACTACCCACAGATGCCGATGGACTCT
 GCACTCGCCTCATCAAACCAAAGGTATGGAGGGCACCGTGGCGGCCAGGATGAGTTCTACCGCAGTGG
 CTGGGCACTGAACATGAAGGAAGTGAAGCTGCTACAGACAATAGGGAAGGGGAGTTTGGAGATGTGATG
 CTGGGGGATTACCGGGGCAACAAAGTTGCAAGTCAAGTGCATCAAGAATGACGCAACTGCCAGGCCCTCC
 TGGCTGAAGCCTCCGTATGACGCAACTTCGGCACAGCAACCTCGTCCAGCTGCTGGGTGTGATTGTGGA
 GGAGAAGGGTGGGCTCTACATCGTCACAGAGTACATGGCCAAGGGGAGTTTGGTGGACTATCTTCGATCA
 CGTGGTCGTTCCGTGCTAGGTGGAGACTGTCTCCTCAAATTTCTATTAGACGTCTGTGAAGCCATGGAGT
 ACCTGGAGGGTAACAATTTGTGACCCGGGACTTGGCTGCCCGGAATGTGCTGGTGTCTGAAGACAACGT
 GGCCAAAGTCAGTGACTTTGGCCTCACTAAGGAAGCCTCCAGCACTCAGGACACAGGCAAGCTGCCAGTC
 AAATGGACAGCGCCTGAAGCCTTGAGAGAGAAGAAATTTCCACCAAGTCTGATGTGTGGAGTTTCGGAA
 TCCTTCTGGGAAATCTATTCCTTCGGGCGAGTGCCTTACCCAAGAATCCCCCTGAAGGACGTCGTCCC
 TCGGGTGGAAAAGGGCTATAAGATGGACGCTCCGGATGGCTGCCCGCCGCACTACGAGGTGATGAAG
 AACTGCTGGCACCTGGATGCTGCCACACGGCCACGTTTTTGCAGCTTCGGGAACAGCTCGAGCACATCA
 AGACCATGAGCTGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207189 protein sequence
 Red=Cloning site Green=Tags(s)

MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWKAKNKGREGIIPANYVQKREG
 VKAGTKLSLMPWFHGKITREQAERLLYPPETGLFLVRESTNYPGDYTLVCSCEGKVEHYRIMYHASKLSI
 DEEVYFENLMQLVEHYTTDADGLCTRLIKPKVMEGTVAQADEFYRSGWALNMKELKLLQITGKGEFGDVM
 LGDYRGNKVAVKCIKNDATAQAFLAEASVMTQLRHSNLVQLLGVIVEEKGLYIVTEYMAKGLVDYLRS
 RGRSVLGGDCLLKFSLDVCEAMEYLEGNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPV
 KWTAPEALREKKFSTKSDVWSFGILLWEIYSFGRVYPRIPLKDVVPRVEKGYKMDAPDGCPPAVYEVMK
 NCWHLDAATRPTFLQLREQLHEIKTHELHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_007783

ORF Size: 1353 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

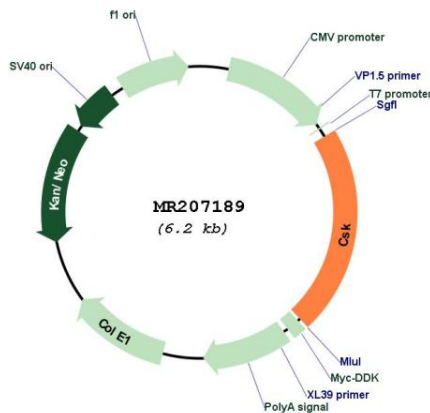
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

RefSeq: [NM_007783.3](#)
RefSeq Size: 2292 bp
RefSeq ORF: 1353 bp
Locus ID: 12988
UniProt ID: [P41241](#)
Cytogenetics: 9 31.18 cM
MW: 50.7 kDa

Gene Summary: Non-receptor tyrosine-protein kinase that plays an important role in the regulation of cell growth, differentiation, migration and immune response. Phosphorylates tyrosine residues located in the C-terminal tails of Src-family kinases (SFks) including LCK, SRC, HCK, FYN, LYN, CSK or YES1. Upon tail phosphorylation, Src-family members engage in intramolecular interactions between the phosphotyrosine tail and the SH2 domain that result in an inactive conformation. To inhibit SFks, CSK is recruited to the plasma membrane via binding to transmembrane proteins or adapter proteins located near the plasma membrane. Suppresses signaling by various surface receptors, including T-cell receptor (TCR) and B-cell receptor (BCR) by phosphorylating and maintaining inactive several positive effectors such as FYN or LCK (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207189