

Product datasheet for **RR202254**

Csk (NM_001030039) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csk (NM_001030039) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csk
Synonyms:	MGC112926
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR202254 representing NM_001030039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCTATACAGGCCTCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACCTCCATGGCACTG
 CCGAGCAAGACCTTCCCTTCTGCAAAGGAGATGTGCTCACCATTGTGGCTGTACCAAGGACCCCAACTG
 GTACAAAGCCAAAAACAAGTGGGCCGTGAGGGCATCATCCAGCCAACATGTCCAGAAGCGTGAGGGT
 GTGAAGGCAGGCACCAAGCTCAGCCTTATGCCCTGGTTCCACGGCAAGATCACACGGGAGCAGGCGGAGC
 GGCTTCTCTACCCACCAGAGACAGGCCTGTTCTGGTGGGAAAGCACCACCACTACCCTGGGGACTACAC
 ACTGTGTGTGAGCTGTGAAGCAAGGTGGAGCACTACCGCATCATGTATCACGGAGCAAGCTGAGCATT
 GATGAGGAGGTACTTCGAGAACCTCATGCAGCTGGTGGAGCACTACCCACAGATGCCGACGGACTCT
 GCACTCGCCTCATCAAACCAAGGTATGGAGGGCACAGTGGCGGCCAAGATGAATTCTACCGCAGTGG
 CTGGGCCCTGAACATGAAGGAAGTGAAGCTGCTACAGACGATAGGAAAGGGGAGTTTGGAGATGTGATG
 CTGGGGGATTACCGAGGCAACAAAGTTGCAAGTCAAGTGCATTAAGAATGATGCTACAGCCAGGCCCTTC
 TGCTGAAGCCTCTGTATGACGCAGCTTCGGCACAGCAACCTAGTCCAGCTACTGGGTGTGATTGTGGA
 GGAGAAGGGTGGGCTCTACATCGTCACAGAGTACATGGCCAAGGGGAGTTTGGTGGACTATCTTCGATCA
 CGTGGTCGTTCCGGTGTAGGCGGAGACTGTCTCTCAAATTTCTACTAGACGTCTGTGAAGCCATGGAGT
 ACCTGGAGGGTAACAATTTGTGCACCGGGACTTGGCTGCCCGGAATGTGCTGGTGTCTGAGGACAACGT
 GGCCAAAGTCAGTGACTTTGGCCTCACTAAGGAAGCTTCCAGCACTCAGGACACAGGCAACTGCCAGTC
 AAGTGGACAGCTCCTGAAGCCTTGAGAGAGAAGAAATTTCCACCAAGTCTGATGTGTGGAGTTTCGGAA
 TCCTTCTCTGGAAATCTATTCCTTCGGGCGAGTGCCTTACCCAAGAATCCCCCTGAAGGACGTCGTCCC
 TCGGGTGGAAAAGGGCTATAAGATGGACGCTCCGGATGGCTGCCACCCGAGTCTATGATGTTATGAAG
 AACTGCTGGCACCTGGATGCTGCCACGGGCCACCTTTCTGCAGCTTCGAGAGCAGCTCGAGCACATCA
 GAACCCATGAGCTGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202254 representing NM_001030039
 Red=Cloning site Green=Tags(s)

MSAIQASWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWKAKNKVGREIIPANYVQKREG
 VKAGTKLSLMPWFHGKITREQAERLLYPETGLFLVRESTNYPGDYTLCVSCEGKVEHYRIMYHASKLSI
 DEEVYFENLMLQVEHYTTDADGLCTRLIKPKVMEGTVAQAQDEFYRSGWALNMKELKLLQITIGKGEFGDVM
 LGDYRGNKVAVKCIKNDATAQAFLAESVMTQLRHSNLVQLLGVIVEEKGLYIVTEYMAKGS�VDYLR
 RGRSVLGGDCLLKFSLDVCEAMEYLEGNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPV
 KWTAPEALREKKFSTKSDVWSFGILLWEIYSFGRVYPRIPLKDVVPRVEKGYKMDAPDGCPPAVYDVMK
 NCWHLDAATRPTFLQLREQLHIRTHELHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

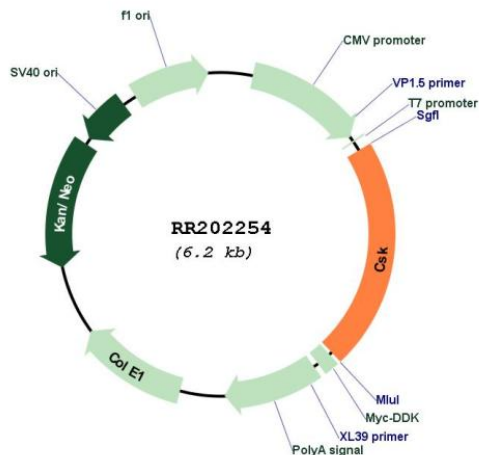
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001030039

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:	<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:	NM_001030039.1 , NP_001025210.1
RefSeq Size:	2108 bp
RefSeq ORF:	1353 bp
Locus ID:	315707
UniProt ID:	P32577
Cytogenetics:	8q24
MW:	50.7 kDa
Gene Summary:	<p>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]</p>