

## Product datasheet for **RN202254**

### **Csk (NM\_001030039) Rat Untagged Clone**

#### **Product data:**

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



[View online »](#)

**Fully Sequenced ORF:** >RN202254 representing NM\_001030039  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGCTATACAGGCCTCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACCTCCATGGCACTG  
 CCGAGCAAGACCTTCCCTTCTGCAAAGGAGATGTGCTCACCATTGTGGCTGTACCAAGGACCCCAACTG  
 GTACAAAGCCAAAAACAAGTGGGCCGTGAGGGCATCATCCCAGCCAACCTATGTCCAGAAGCGTGAGGGT  
 GTGAAGGCAGGCACCAAGCTCAGCCTTATGCCCTGGTTCCACGGCAAGATCACACGGGAGCAGGCGGAGC  
 GGCTTCTCTACCCACCAGAGACAGGCCTGTTCTGGTGGGAAAGCACCACCTACCCCTGGGACTACAC  
 ACTGTGTGTGAGCTGTGAAGGCAAGGTGGAGCACTACCGCATCATGTATCACGGAGCAAGCTGAGCATT  
 GATGAGGAGGTACTTCGAGAACCTCATGCAGCTGGTGGAGCACTACCCACAGATGCCGACGGACTCT  
 GCACTCGCCTCATCAAACCAAGGTCATGGAGGGCACAGTGGCGGCCAAGATGAATTCTACCGCAGTGG  
 CTGGGCCCTGAACATGAAGGAACTGAAGCTGCTACAGACGATAGGAAAGGGGAGTTTGGAGATGTGATG  
 CTGGGGGATTACCGAGGCAACAAAGTTGCAGTCAAGTGCATTAAGAATGATGCTACAGCCCAGGCCCTCC  
 TGCTGAAGCCTCTGTATGACGCAGCTTCGGCACAGCAACCTAGTCCAGCTACTGGGTGTGATTGTGGA  
 GGAGAAGGGTGGGCTCTACATCGTCACAGAGTACATGGCCAAGGGGAGTTTGGTGGACTATCTTCGATCA  
 CGTGGTCGTTCCGGTGTAGGCGGAGACTGTCTCCTCAAATTTCTACTAGACGTCTGTGAAGCCATGGAGT  
 ACCTGGAGGGTAACAATTTGTGCACCGGGACTTGGCTGCCCGGAATGTGCTGGTGTCTGAGGACAACGT  
 GGCCAAAGTCAGTGACTTTGGCCTCACTAAGGAAGCTCCAGCACTCAGGACACAGGCAACTGCCAGTC  
 AAGTGGACAGCTCCTGAAGCCTTGAGAGAGAAGAAATTTCCACCAAGTCTGATGTGTGGAGTTTCGGAA  
 TCCTTCTCTGGAAATCTATTCCTTCGGGCGAGTGCCTTACCCAAGAATCCCCTGAAGGACGTCGTCCC  
 TCGGGTGGAAAAGGGCTATAAGATGGACGCTCCGGATGGCTGCCACCCGAGTCTATGATGTTATGAAG  
 AACTGCTGGCACCTGGATGCTGCCACGGGCCACCTTTCTGCAGCTTCGAGAGCAGCTCGAGCACATCA  
 GAACCCATGAGCTGCACCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001030039
- Insert Size:** 1353 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).
- 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\\_001030039.1](#), [NP\\_001025210.1](#)

RefSeq Size: 2108 bp

RefSeq ORF: 1353 bp

Locus ID: 315707

UniProt ID: [P32577](#)

Cytogenetics: 8q24

**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]