

## Product datasheet for **RG225740**

### CSK (NM\_001127190) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CSK (NM_001127190) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CSK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225740 representing NM_001127190 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGCAATACAGGCCGCTGGCCATCCGGTACAGAATGTATTGCCAAGTACAACCTCCAGGCACTG  
CCGAGCAGGACCTGCCCTTCTGCAAAGGAGACGTGCTCACCATTGTGGCCGTACCAAGGACCCAACTG  
GTACAAAGCCAAAAACAAGGTGGGCCGTGAGGGCATCATCCAGCCAACACGTCCAGAAGCGGGAGGGC  
GTGAAGCGGGTACCAAACCTCAGCCTCATGCCTTGGTTCCACGGCAAGATCACACGGGAGCAGGCTGAGC  
GGCTTCTGTACCCGCGGAGACAGGCCTGTTCCCTGGTCCGGGAGAGCACCAACTACCCCGGAGACTACAC  
GCTGTGCGTGAGCTGCGACGGCAAGGTGGAGCACTACCGCATCATGTACCATGCCAGCAAGCTCAGCATC  
GACGAGGAGGTGTAATTTGAGAACCTCATGCAGCTGGTGGAGCACTACACCTCAGACGCAGATGGACTCT  
GTACGCGCCTCATTAAACCAAAGGTGATGGAGGGCACAGTGGCGGCCAGGATGAGTTCTACCGCAGCGG  
CTGGGCCCTGAACATGAAGGAGCTGAAGCTGCTGCAGACCATCGGAAGGGGGAGTTCGGAGACGTGATG  
CTGGGCGATTACCGAGGGAACAAAGTCGCCGTCAGTGCATTAAGAACGACGCCACTGCCAGGCCCTTCC  
TGGCTGAAGCCTCAGTCATGACGCAACTGCGGCATAGCAACCTGGTGCAGCTCCTGGGCGTGATCGTGGA  
GGAGAAGGGCGGGCTCTACATCGTCACTGAGTACATGGCCAAGGGGAGCCTTGTGGACTACCTGCGGTCT  
AGGGGTCGGTCAGTGTGGGCGGAGACTGTCTCCTCAAGTCTCGCTAGATGTCTGCGAGGCCATGGAAT  
ACCTGGAGGGCAACAATTCGTGCATCGAGACCTGGCTGCCCGCAATGTGCTGGTGTCTGAGGACAACGT  
GGCCAAGGTCAGCGACTTTGGTCTCACCAGGAGGCGTCCAGCACCCAGGACACGGGCAAGCTGCCAGTC  
AAGTGGACAGCCCTGAGGCCCTGAGAGAGAAGAAATTCCTCACTAAGTCTGACGTGTGGAGTTTCGGAA  
TCCTTCTCTGGGAAATCTACTCCTTTGGGCGAGTGCCCTATCCAAGAATTCCTGAAGGACGTCGTCCT  
TCGGGTGGAGAAGGGCTACAAGATGGATGCCCCGACGGCTGCCCGCCGACGTCATGAAGTCATGAAG  
AACTGTGGCACCTGGACGCCCATGCGGCCCTCCTTCTACAGCTCCGAGAGCAGCTTGAGCAGCATCA  
AAACCCACGAGCTGCACCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG225740 representing NM\_001127190  
 Red=Cloning site Green=Tags(s)

MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWKAKNKVGREIIPANYVQKREG  
 VKAGTKLSLMPWFHGKITREQAERLLYPPETGLFLVRESTNYPGDYTLCVSCDGKVEHYRIMYHASKLSI  
 DEEVYFENLMQLVEHYTSDADGLCTRLIKPKVMEGTVAAQDEFYRSGWALNMKELKLLQTIKGEFGDVM  
 LGDYRGNKVAVKCIKNDATAQAFLAEASVMTQLRHSNLVQLLGVIVEEKGGLYIVTEYMAKGS�VDYLRS  
 RGRSVLGGDCLLKFSLDVCEAMEYLEGNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPV  
 KWTAPEALREKKFSTKSDVWSFGILLWEIYSFGRVYPRIPLKDVVPRVEKGYKMDAPDGCPPAVYEVMK  
 NCWHLDAAMRPSFLQLEQLEHIKTHELHL

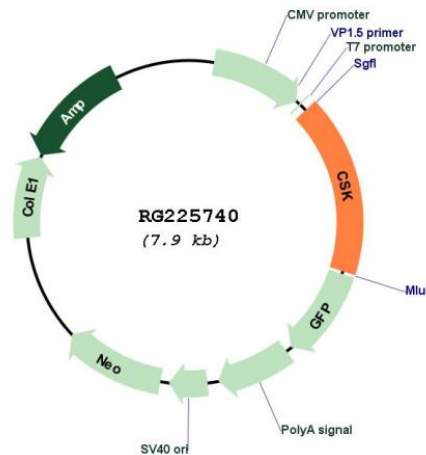
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



ACCN:	NM_001127190
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. <a href="#">More info</a>
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"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_001127190.2</a>
RefSeq Size:	2236 bp
RefSeq ORF:	1353 bp
Locus ID:	1445
UniProt ID:	<a href="#">P41240</a>
Cytogenetics:	15q24.1
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
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]