

## Product datasheet for **RC230194**

### HCK (NM\_001172133) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_001172133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HCK
Synonyms:	JTK9; p59Hck; p61Hck
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC230194 representing NM\_001172133  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGTGCATGAAGTCCAAGTCTCCAGGTCGGAGGCAATACATTCTCAAAAAGTGAACACGCGCCA  
 GCCCACACTGTCTGTGTACGTGCCGATCCACATCCACCATCAAGCCGGGCCTAATAGCCACAACAG  
 CAACACACCAGGAATCAGGGAGGAGGCTCTGAGGACATCATCGTGGTTCCTGTATGATTACGAGGCC  
 ATTCACCACGAAGACCTCAGCTTCCAGAAGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGT  
 GGAAGGCTCGATCCCTGGCCACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCCGCTTGACTC  
 TCTGGAGACAGAGGAGTGGTTTTCAAGGGCATCAGCCGGAAGGACGAGAGCGCAACTGCTGGCTCCC  
 GGCAACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCTTTGTCGGTGC  
 GAGACTACGACCCTCGGAGGGAGATACCGTGAACATTACAAGATCCGGACCCTGGACAACGGGGGCTT  
 CTACATATCCCCCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACCACTACAAGAAGGGGAACGAC  
 GGCTCTGCCAGAACTGTCGGTCCCTGCATGTCTTCAAGCCCCAGAAGCCTTGGGAGAAAGATGCCCT  
 GGGAGATCCCTCGGAATCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCGATTTGGGGAAGTCTGGAT  
 GGCCACCTACAACAAGCACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTCGGTGGAGGCC  
 TTCTGGCAGAGGCCAACGTGATGAAAAGTCTGCAGCATGACAAGCTGGTCAAATTCATGCGGTGGTCA  
 CCAAGGAGCCCATCTACATCATCACGGAGTTCATGGCCAAAGGAAGCTTGGTGGACTTTCTGAAAAGTGA  
 TGAGGGCAGCAAGCAGCCATTGCCAAAAGTCTGACTTCTCAGCCAGATTGCAGAAGGCATGGCCTTC  
 ATCGAGCAGAGGAAGTACATCCACCGAGCCTCCGAGCTGCCAACATCTGGTCTCTGCATCCCTGGTGT  
 GTAAGATTGCTGACTTTGGCCTGGCCGGGTCATTGAGGACAACGAGTACACGGCTCGGGAAAGGGCCAA  
 GTTCCCATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAAGCAGCTGG  
 TCTTTGGTATCCTGCTGATGGAGATCGTCACCTACGGCCGATCCCTTACCAGGGATGTCAAACCTG  
 AAGTATCCGAGCTCTGGAGCTGGATACCGGATGCCTCGCCAGAGAACTGCCAGAGGAGCTCTACAA  
 CATCATGATGCGCTGCTGAAAAACCGTCCGGAGGAGCGCCGACCTTGAATACATCCAGAGTGTGCTG  
 GATGACTTCTACACGGCCACAGAGGCCAGTACCAACAGCAGCCA

**ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC230194 representing NM\_001172133  
 Red=Cloning site Green=Tags(s)

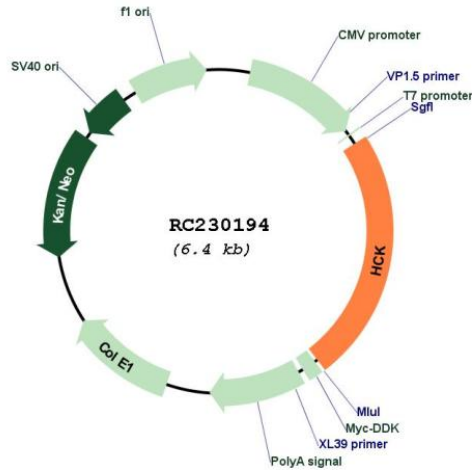
MGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIKPGPNSHNSNTPGIREAGSEDIIVVALYDYEA  
 IHHEDL SFQKGDQMVVLEESGEWWKARSLATRKEGYIPSNYVARVDSLETEEWFKGISRKDAERQLLAP  
 GNMLGSFMIRDSETTKGSYSLSVRDYDPRQDVTKHYKIRTLNNGGFYISPRSTFSTLQELVDHYKKGND  
 GLCQKLSVPCMSSKPKPWEKDAWEIPRESLKLEKLGAGQFGEVWMATYNKHTKVAVKTMKPGSMSVEA  
 FLAEANVMKTLQHDKLVKLHAVVTKEPIYIITEFMAKGSLLDFLKSDGSKQPLPKLIDFSAQIAEGMAF  
 IEQRNYIHRDLRAANILVSLVCKIADFLARVIEDNEYTAREGAKFPIKWTAPEAINFGSFTIKSDVW  
 SFGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRENCEPEELYNIMMRCWKNRPEERPTFEYIQSVL  
 DDFYTATESQYQQQP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI



**Plasmid Map:**


**ACCN:** NM\_001172133

**ORF Size:** 1515 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.

**RefSeq:** [NM\\_001172133.2](#)

**RefSeq ORF:** 1518 bp

**Locus ID:** 3055

**UniProt ID:** [P08631](#)

**Cytogenetics:** 20q11.21

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Chemokine signaling pathway, Fc gamma R-mediated phagocytosis

**MW:** 57.8 kDa

**Gene Summary:** The protein encoded by this gene is a member of the Src family of tyrosine kinases. This protein is primarily hemopoietic, particularly in cells of the myeloid and B-lymphoid lineages. It may help couple the Fc receptor to the activation of the respiratory burst. In addition, it may play a role in neutrophil migration and in the degranulation of neutrophils. Multiple isoforms with different subcellular distributions are produced due to both alternative splicing and the use of alternative translation initiation codons, including a non-AUG (CUG) codon. [provided by RefSeq, Feb 2010]