

## Product datasheet for **RG230191**

### HCK (NM\_001172131) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_001172131) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCK
Synonyms:	JTK9; p59Hck; p61Hck
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230191 representing NM\_001172131  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTGCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAAGTGAACCAGCGCCA  
 GCCCACACTGTCTGTGTACGTGCCGATCCCACATCCACCATCAAGCCGGGCCTAATAGCCACAACAG  
 CAACACACCAGGAATCAGGGAGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCCATT  
 CACCACGAAGACCTCAGCTTCCAGAAGGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGTGA  
 AGGCTCGATCCCTGGCCACCCGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGCTTGACTCTCT  
 GGAGACAGAGGAGTGGTTTTCAAGGGCATCAGCCGGAAGGACGCAGAGCGCCAAGTCTGGCTCCCGGC  
 AACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCTTTGTCGGTGGAG  
 ACTACGACCTCGGCAGGAGATACCGTAAACATTACAAGATCCGGACCCTGGACAACGGGGCTTCTA  
 CATATCCCCCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACCACTACAAGAAGGGGAACGACGGG  
 CTCTGCCAGAAACTGTCGGTGCCTGCATGTCTTCCAAGCCCAGAAAGCCTTGGGAGAAAGATGCCTGGG  
 AGATCCCTCGGGAATCCCTCAAGCTGGAGAAGAACTTGAGCTGGCAGTTTGGGGAAGTCTGGATGGC  
 CACCTACAACAAGCACACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTCCGGTGGAGGCCCTC  
 CTGGCAGAGGCCAACGTGATGAAAAGTCTGCAGCATGACAAGCTGGTCAAAGTTCATGCGGTGGTACCA  
 AGGAGCCCATCTACATCATCACGGAGTTCATGGCCAAAGGAAGCTTGGTGGACTTTCTGAAAAGTATGA  
 GGGCAGCAAGCAGCCATTGCCAAAAGTCACTGACTTCTCAGCCAGATTGCAGAAGGCATGGCCTTCATC  
 GAGCAGAGGAAGTACATCCAGGAGACCTCCGAGCTGCCAACATCTTGGTCTCTGCATCCCTGGTGTGTA  
 AGATTGCTGACTTTGGCCTGGCCGGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGCCAAAGT  
 CCCCATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTCACCATCAAGTCAAGTCAAGTCTGGTCC  
 TTTGGTATCCTGCTGATGGAGATCGTCACCTACGGCCGGATCCCTTACCCAGGATGTCAAACCCTGAAG  
 TGATCCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAACTGCCAGAGGAGCTTACAACAT  
 CATGATGCGTCTGGAAAAACCGTCCGGAGGAGCGGCCGACCTTCAATACATCCAGAGTGTGCTGGAT  
 GACTTCTACACGGCCACAGAGAGCCAGTACCAACAGCAGCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230191 representing NM\_001172131  
 Red=Cloning site Green=Tags(s)

MGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIKPGPNSHSNTPGIREGSEDIIVVALYDYEAI  
 HHEDLSFQKGDQMVVLEESGEWWKARSLATRKEGYIPSNYVARVDSLETEEWFVKISRKDAERQLLAPG  
 NMLGSFMIIRDSETTKGSYLSVRDYDPRQGDVVKHYKIRTLDNNGFYISPRSTFSTLQELVDHYKKGNDG  
 LCQKLSVPCMSKPKPWEKDAWEIPRESLKLEKLGAGQFGEVWMATYNKHTKVAVKTMKPGSMSVEAF  
 LAEANVMKTLQHDKLVKLHAVVTKEPIYIITEFMAKGSLLDFLKSDEGSKQPLPKLIDFSAQIAEGMAFI  
 EQRNYIHRDLRAANILVSASLVCKIADFLARVIEDNEYTAREGAKFPIKWTAPEAINFGSFTIKSDVWS  
 FGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRPENCPEELYNIMMRCWKNRPEERPTFEYIQSVLD  
 DFYTATESQYQQQP

**TRTRPLE** - GFP Tag - V

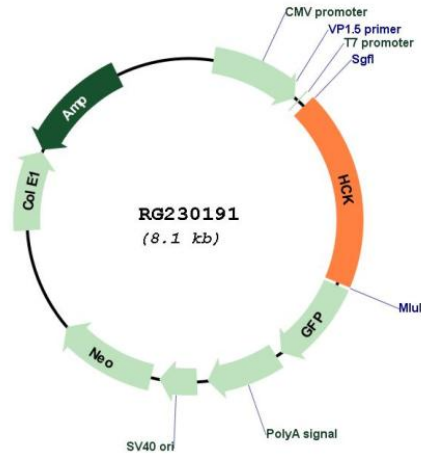
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001172131

**ORF Size:** 1512 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\\_001172131.2](#)

**RefSeq Size:** 2165 bp

**RefSeq ORF:** 1515 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

**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]