

## Product datasheet for **RG230231**

### HCK (NM\_001172130) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | HCK (NM_001172130) 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)                    |



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**ORF Nucleotide Sequence:**

>RG230231 representing NM\_001172130  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

CTGGGGGGCGCTCAAGCTGCGAGGATCCGGGCTGCCCGGAGACGAGGAGCGGGGCCCCAGGATGGGGT  
 GCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAACAGAAACAGCGCCAGCCACA  
 CTGTCCCTGTGTACGTGCCGGATCCACATCCACCATCAAGCCGGGGCCTAATAGCCACAACAGCAACACA  
 CCAGGAATCAGGGAGGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCCATTACCACG  
 AAGACCTCAGTTCCAGAAGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGTGAAGGCTCG  
 ATCCCTGGCCACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGCTTGACTCTCTGGAGACA  
 GAGGAGTGGTTTTCAAGGGCATCAGCCGAAGGACGACAGCGCCAACCTGCTGGCTCCCGCAACATGC  
 TGGGCTCCTTCATGATCCGGGATAGCGAGACCTAAAGGAAGCTACTCTTTGTCGTGCGAGACTACGA  
 CCCTCGCAGGGAGATACCGTGAACATTACAAGATCCGGACCCTGGACAACGGGGGCTTCTACATATCC  
 CCCCGAAGCACCTTCAGACTCTGCAGGAGCTGGTGGACCACTACAAGAAGGGGAACGACGGGCTCTGCC  
 AGAAACTGTCCGTGCCCTGCATGTCTTCAAGCCCAAGGCCTTGGGAGAAAGATGCCTGGGAGATCCC  
 TCGGGAATCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCGAGTTGGGGAAGTCTGGATGGCCACCTAC  
 AACAAAGCACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTCGGTGGAGGCCTTCTGGCAG  
 AGGCCAACGTGATGAAAACCTCTGCAGCATGACAAGCTGGTCAAACCTCATGCGGTGGTCAACAAGGAGCC  
 CATCTACATCATCAGGAGTTTATGGCCAAAGGAAGCTTGGTGGACTTTCTGAAAAGTGTGAGGGCAGC  
 AAGCAGCCATTGCCAAAACCTCATTGACTTCTCAGCCAGATTGCAGAAGGCATGGCCCTCATCGAGCAGA  
 GGAACATACACCCAGACCTCCGAGCTGCCAACATCTTGGTCTCTGCATCCCTGGTGTGTAAGATTGC  
 TGACTTTGGCCTGGCCCGGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGGCAAGTTCGCCATC  
 AAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAAGTCAAGTCTGGTCTTTGGTA  
 TCCTGCTGATGGAGATCGTCACTACGGCCGGATCCCTTACCAGGGATGTCAAACCTGAAGTGTCCG  
 AGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAACTGCCAGAGGAGCTTACAACATCATGATG  
 CGCTGCTGAAAAACCGTCCGGAGGAGCGGCCACCTCGAATACATCCAGAGTGTGCTGGATGACTTCT  
 ACACGGCCACAGAGGCCAGTACCAACAGCAGCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230231 representing NM\_001172130  
 Red=Cloning site Green=Tags(s)

LGRSSCEDPGCPRDEERAPRMGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIKPGPNSHNSNT  
 PGIREGSEDIIVVALDYEAIIHEDLSFQKGDQMVVLEESGEWWKARSLATRKEGYIPSNYVARVDSLET  
 EEWFFKGISRKDAERQLLAPGNMLGSFMIRDSETTKGSYLSVRDYDPRQGDTVKHYKIRTLDNGGFYIS  
 PRSTFSTLQELVDHYKKGNDGLCQKLSVPCMSSKPKPWEKDAWEIPRESLKLEKKGAGQFGEVWMATY  
 NKHTKVAVKTMKPGSMSVEAFLAEANVMKTLQHDKLVKLHAVVTKEPIYIITEFMAKGSLLDFLKSDEGS  
 KQPLPKLIDFSAQIAEGMAFIEQRNYIHRDLRAANILVSASLVCKIADFLARVIEDNEYTAREGAKFPI  
 KWTAPEAINFGSFTIKSDVWSFGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRPENPEELYNIMM  
 RCWKNRPEERPTFEYIQSVLDDFYTATESQYQQQP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001172130

**ORF Size:** 1575 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\\_001172130.2](#)

**RefSeq Size:** 2165 bp

**RefSeq ORF:** 1578 bp

**Locus ID:** 3055

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

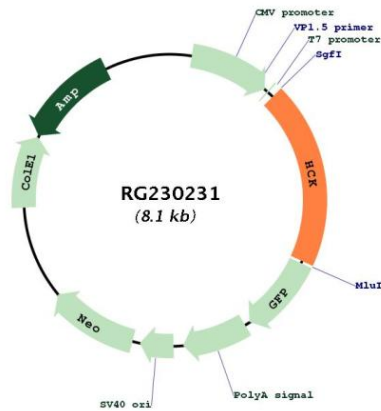
**Cytogenetics:** 20q11.21

**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]

**Product images:**



Circular map for RG230231