

Product datasheet for **RG230193**

HCK (NM_001172129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_001172129) 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:

>RG230193 representing NM_001172129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTGCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAAGTGAACACGCGCCA
 GCCCACACTGTCTGTGTACGTGCCGATCCCACATCCACCATCAAGCCGGGCCTAATAGCCACAACAG
 CAACACACCAGGAATCAGGGAGGAGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCC
 ATTCACCACGAAGACCTCAGCTTCCAGAAGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGT
 GGAAGGCTCGATCCCTGGCCACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGCTTGACTC
 TCTGGAGACAGAGGAGTGGTTTTCAAGGGCATCAGCCGGAAGGACGAGAGCGCAACTGCTGGCTCCC
 GGCAACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCTTTGTCGGTGC
 GAGACTACGACCCTCGGAGGGAGATACCGTGAACATTACAAGATCCGGACCCTGGACAACGGGGGCTT
 CTACATATCCCCCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACCACTACAAGAAGGGGAACGAC
 GGGCTCTGCCAGAACTGTCGGTGCCCTGCATGTCTTCCAAGCCCCAGAAGCCTTGGGAGAAAGATGCC
 GGGAGATCCCTCGGAATCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCGATTTGGGGAAGTCTGGAT
 GGCCACCTACAACAAGCACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTCGGTGGAGGCC
 TTCCTGGCAGAGGCCAACGTGATGAAAAGTCTGCAGCATGACAAGCTGGTCAAATTCATGCGGTGGTCA
 CCAAGGAGCCATCTACATCATCACGGAGTTCATGGCCAAAGGAAGCTTGGTGGACTTTCTGAAAAGTGA
 TGAGGGCAGCAAGCAGCCATTGCCAAAAGTCTGACTTCTCAGCCAGATTGCAGAAGGCATGGCCTTC
 ATCGAGCAGAGGAAGTACATCCACCGAGACCTCCGAGCTGCCAACATCTGGTCTCTGCATCCCTGGTGT
 GTAAGATTGCTGACTTTGGCCTGGCCGGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGCCAA
 GTTCCCCATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAGACGCTGG
 TCCTTTGGTATCCTGCTGATGGAGATCGTCACCTACGGCCGATCCCTTACCAGGGATGTCAAACCTG
 AAGTATCCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAAGTCCCAGAGGAGCTCTACAA
 CATCATGATGCGCTGCTGAAAAACCGTCCGGAGGAGCGCCGACCTTGAATACATCCAGAGTGTGCTG
 GATGACTTCTACACGGCCACAGAGGCCAGTACCAACAGCAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

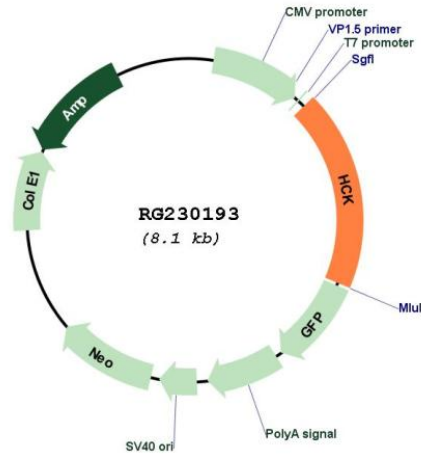
>RG230193 representing NM_001172129
 Red=Cloning site Green=Tags(s)

MGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIKPGPNHNSNTPGIREAGSEDIIVVALYDYEA
 IHHEDL SFQKGDQMVVLEESGEWWKARSLATRKEGYIPSNYVARVDSLETEEWFVKGISRKDAERQLLAP
 GNMLGSFMIRDSETTKGSYLSVRDYDPRQDVTVKHYKIRTLDNNGFYISPRSTFSTLQELVDHYKKGND
 GLCQKLSVPCMSSKPQKPWEKDAWEIPRESLKEKLLGAGQFGEVWMATYNKHTKVAVKTMKPGSMSVEA
 FLAEANVMKTLQHDKLVKLVAVVTKEPIYIITEFMAKGSLLDFLKSDEGSKQPLPKLIDFSAQIAEGMAF
 IEQRNYIHRDLRAANILVSLVCKIADFLARVIEDNEYTAREGAKFPIKWTAPEAINFSGFTIKSDVW
 SFGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRENCEPEELYNIMMRCWKNRPEERPTFEYIQSVL
 DDFYTATESQYQQQP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN:	NM_001172129
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_001172129.2](#)

RefSeq Size: 2168 bp

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

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]