

Product datasheet for **SC328829**

HCK (NM_001172131) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_001172131) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCK
Synonyms:	JTK9; p59Hck; p61Hck
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC328829 representing NM_001172131.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

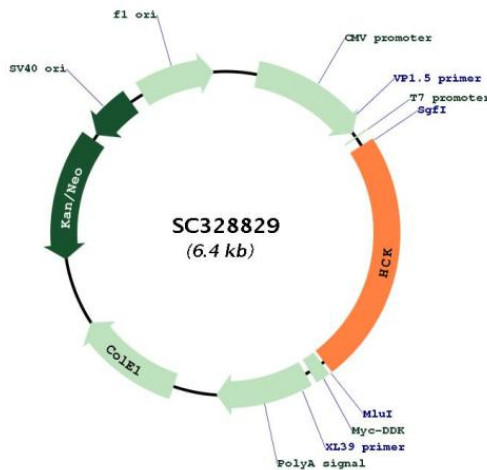
```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGTGCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAACCTGAAACCAGCGCC
AGCCACACTGTCTGTGTACGTGCCGGATCCACATCCACCATCAAGCCGGGGCTAATAGCCACAAC
AGCAACACACCAGGAATCAGGGAGGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCC
ATTCACCACGAAGACCTCAGCTTCCAGAAGGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGG
TGGAAAGCTCGATCCCTGGCCACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGCGTTGAC
TCTCTGGAGACAGAGGAGTGGTTTTCAAGGGCATCAGCCGGAAGGACGCAGAGCGCCAACCTGCTGGCT
CCCGGCAACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCTTTGTCC
GTGCGAGACTACGACCTCGGCAGGAGATACCGTGAACATTACAAGATCCGGACCTGGACAACGGG
GGCTTCTACATATCCCCCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACCACTACAAGAAGGGG
AACGACGGGCTCTGCCAGAACTGTCGGTGCCCTGCATGTCTTCAAGCCCCAGAAGCCTTGGGAGAAA
GATGCCTGGGAGATCCCTCGGGAATCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCAGTTTGGGGAA
GTCTGGATGGCCACCTACAACAAGCACACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTGCG
GTGGAGGCCTTCTGGCAGAGGCCAACGTGATGAAAACCTGCAGCATGACAAGCTGGTCAAACCTTCAT
GCGGTGGTACCAAGGAGCCCATCTACATCATCACGGAGTTTCAAGGCAAGGAAGCTTGGTGGACTTT
CTGAAAAGTGTAGAGGCGAGCAAGCAGCCATTGCCAAAACCTATTGACTTCTCAGCCAGATTGCAGAA
GGCATGGCCTTTCATCGAGCAGAGGAACATCCACCGAGACCTCCGAGCTGCCAACATCTTGGTCTCT
GCATCCCTGGTGTGAAGATTGCTGACTTTGGCCTGGCCCGGGTATTGAGGACAACGAGTACACGGCT
CGGGAAGGGCCAAGTTCCCATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTCACCATC
AAGTCAGACGTCTGGTCCTTTGGTATCCTGCTGATGGAGATCGTACCTACGGCCGGATCCCTTACCCA
GGGATGTCAAACCTGAAGTGTCCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAAGTGC
CCAGAGGAGCTCTACAACATCATGATGCCTGCTGAAAAACCGTCCGGAGGAGCGGCCGACCTTCGAA
TACATCCAGAGTGTGCTGGATGACTTCTACACGGCCACAGAGAGCCAGTACCAACAGCAGCCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:

NM_001172131

Insert Size:	1515 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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"> 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:	<u>NM_001172131.1</u>
RefSeq Size:	2165 bp
RefSeq ORF:	1515 bp
Locus ID:	3055
UniProt ID:	<u>P08631</u>
Cytogenetics:	20q11.21
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Fc gamma R-mediated phagocytosis
MW:	57.2 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This variant encodes two isoforms due to the use of alternative translation initiation codons, as demonstrated in PMIDs 1875927 and 7791757. The longer isoform (c) is derived from an upstream non-AUG (CUG) start codon, while the shorter isoform (d) is derived from a downstream AUG start codon. The shorter isoform (d) is represented in this RefSeq, and is overall shorter, compared to isoform a. CCDS Note: This CCDS, which is supported by the mRNAs AK289896.1 and BC113854.1, represents a short human HCK isoform, as described in PMID:7791757. This isoform initiates translation from a downstream AUG start codon. Alternative translation initiation from an upstream non-AUG (CUG) start codon, which is well-conserved and present in a strong Kozak signal context, produces an isoform that is 21 aa longer at the N-terminus. The longer isoform encoded by this variant is represented by CCDS 54453.1. These isoforms exhibit distinct subcellular localization, as indicated in PMID:7791757.