

Product datasheet for **SC328832**

HCK (NM_001172133) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_001172133) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCK
Synonyms:	JTK9; p59Hck; p61Hck
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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- Fully Sequenced ORF:** >NCBI ORF sequence for NM_001172133, the custom clone sequence may differ by one or more nucleotides
 ATGGGGTGCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAAGTAA
 ACCAGCGCCAGCCCACTGTCTGTGTACGTGCCGGATCCCACATCCACCATCAAGCCG
 GGGCCTAATAGCCACAACAGCAACACACCAGGAATCAGGGAGGCAGGCTCTGAGGACATC
 ATCGTGGTTGCCCTGTATGATTACGAGGCCATTACCACGAAGACCTCAGCTTCCAGAAG
 GGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGTGGAAAGGCTCGATCCCTGGCC
 ACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGCTTGACTCTCTGGAGACA
 GAGGAGTGGTTTTTCAAGGGCATCAGCCGGAAGGACGCAGAGCGCCAAGTCTGGCTCCC
 GGCAACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGTACTCT
 TTGTCCGTGCGAGACTACGACCCTCGGCAGGGAGATACCGTGAAACATTACAAGTCCGG
 ACCCTGGACAACGGGGCTTCTACATATCCCCCGAAGCACCTTCAGCACTCTGCAGGAG
 CTGGTGGACCACTACAAGAAGGGGAACGACGGGCTCTGCCAGAACTGTCGGTGCCTGC
 ATGTCTTCCAAGCCCAGAAGCCTTGGGAGAAAGATGCCTGGGAGATCCCTCGGGATCC
 CTAAGCTGGAGAAGAACTTGGAGCTGGGCAGTTTGGGGAAGTCTGGATGGCCACCTAC
 AACAAAGCACACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTGGTGGAGGCC
 TTCTGGCAGAGGCCAACGTGATGAAAAGTCTGCAGCATGACAAGCTGGTCAAATTCAT
 GCGGTGGTCAACAAGGAGCCCATCTACATCATCACGGAGTTTATGGCCAAAGGAAGCTTG
 CTGGACTTTCTGAAAAGTATGAGGGCAGCAAGCAGCCATTGCCAAAAGTCTGACTTC
 TCAGCCCAGATTGCAGAAGGCATGGCCTTCATCGAGCAGAGGAACTACATCCACCGAGAC
 CTCCGAGCTGCCAACATTTGGTCTCTGCATCCCTGGTGTGTAAGATTGCTGACTTTGGC
 CTGGCCCGGGTCAATTGAGGACAACGAGTACACGGCTCGGGAAGGGGCCAAGTTCCCATC
 AAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAGACGTCTGG
 TCCTTTGGTATCCTGCTGATGGAGATCGTCACCTACGGCCGGATCCCTTACCCAGGGATG
 TCAAACCTGAAGTATCCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAAC
 TGCCAGAGGAGCTCTACAACATCATGATGCGCTGCTGGAAAAACCGTCCGGAGGAGCGG
 CCGACCTTCAATACATCCAGAGTGTGCTGGATGACTTCTACACGGCCACAGAGAGCCAG
 TACCAACAGCAGCCATGA
- Restriction Sites:** Please inquire
- ACCN:** NM_001172133
- 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:

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_001172133.1](#), [NP_001165604.1](#)

RefSeq Size: 2232 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]

Transcript Variant: This variant (4) differs in its 5' UTR and uses the downstream AUG start codon, compared to variant 1, resulting in an isoform (b) that is shorter at the N-terminus, compared to isoform a. Both variants 1 and 4 encode isoform b. **CCDS Note:** This CCDS, which is supported by the mRNAs AK026432.1, BC108930.1 and others, represents a short human HCK isoform, known as p59HCK, 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, which is known as p61HCK, is represented by CCDS 33460.1. These isoforms exhibit distinct subcellular localization, as indicated in PMID:7791757.