

Product datasheet for **SC317892**

HCK (NM_002110) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_002110) 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)



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Fully Sequenced ORF: >OriGene sequence for NM_002110 edited
 ATGGGGGGGCGCTCAAGCTGCGAGGATCCGGGCTGCCCGAGACGAGGAGCGGGCGCCC
 AGGATGGGGTGCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAA
 GAAACCAGCGCCAGCCCACACTGTCCTGTGTACGTGCCGGATCCCACATCCACCATCAAG
 CCGGGGCTAATAGCCACAACAGCAACACACCAGGAATCAGGGAGGCAGGCTCTGAGGAC
 ATCATCGTGGTTGCCCTGTATGATTACGAGGCCATTACCACGAAGACCTCAGCTTCCAG
 AAGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGTGGAAAGGCTCGATCCCTG
 GCCACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGGTTGACTCTCTGGAG
 ACAGAGGAGTGGTTTTTCAAGGGCATCAGCCGGAAGGACGAGAGCGCCAACTGTGGCT
 CCCGGCAACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTAC
 TCTTTGTCGTCGAGACTACGACCCTCGGCAGGGAGATACCGTGAACATTACAAGATC
 CGGACCCTGGACAACGGGGGCTTCTACATATCCCCCGAAGCACCTTCAGCACTCTGCAG
 GAGCTGGTGGACCACTACAAGAAGGGGAACGACGGGCTCTGCCAGAACTGTCGGTGCC
 TGCATGTCTTCAAGCCCAGAAGCCTTGGGAGAAAGATGCCTGGGAGATCCCTCGGGAA
 TCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCAGTTTGGGGAAGTCTGGATGGCCACC
 TACAACAAGCACACCAAGGTGGCAGTGAAGACGATGAAGCCAGGAGCATGTCGGTGGAG
 GCCTTCCTGGCAGAGGCCAACGTGATGAAAACCTCTGCAGCATGACAAGCTGGTCAAACCT
 CATGCGGTGGTCACCAAGGAGCCCATCTACATCATCACGGAGTTCATGGCCAAAGGAAGC
 TTGCTGGACTTTCTGAAAAGTGATGAGGGCAGCAAGCAGCCATTGCCAAAACCTATTGAC
 TTCTCAGCCCAGATTGCAGAAGGCATGGCCTTCATCGAGCAGAGGAACTACATCCACCGA
 GACCTCCGAGCTGCCAACATCTTGGTCTCTGCATCCCTGGTGTGTAAGATTGCTGACTTT
 GGCCTGGCCCGGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGGCAAGTCCCC
 ATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAGACGTC
 TGGTCCTTTGGTATCCTGCTGATGGAGATCGTCACTACGGCCGGATCCCTTACCCAGGG
 ATGTCAAACCCTGAAGTATCCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAG
 AACTGCCAGAGGAGCTTACAACATCATGATGCGCTGTGAAAAACCGTCCGGAGGAG
 CGGCCGACCTTGAATACATCCAGAGTGTGCTGGATGACTTCTACACGGCCACAGAGAGC
 CAGTACCAACAGCAGCCATGA

Restriction Sites: Please inquire

ACCN: NM_002110

Insert Size: 1600 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:	NM_002110.2 , NP_002101.2
RefSeq Size:	2105 bp
RefSeq ORF:	1581 bp
Locus ID:	3055
UniProt ID:	P08631
Cytogenetics:	20q11.21
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Fc gamma R-mediated phagocytosis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes two isoforms due to the use of alternative translation initiation codons, as demonstrated in PMIDs 1875927 and 7791757. The longer isoform (a, also known as p61HCK) is derived from an upstream non-AUG (CUG) start codon, while the shorter isoform (b, also known as p59HCK) is derived from a downstream AUG start codon. The longer isoform (a) is represented in this RefSeq. CCDS Note: This CCDS, which is supported by the mRNAs AK026432.1, BC108930.1 and others, represents a long human HCK isoform, known as p61HCK, as described in PMIDs 1875927 and 7791757. This isoform initiates translation from a non-AUG (CUG) start codon that is well-conserved and present in a strong Kozak signal context. Alternative translation initiation from a downstream AUG start codon produces an isoform that is 21 aa shorter at the N-terminus. The shorter isoform, which is known as p59HCK, is represented by CCDS 54455.1. These isoforms exhibit distinct subcellular distributions, as indicated in PMID:7791757.</p>