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Product datasheet for SC118838

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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002110 edited
ATGGGGTGCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAACTGAA
ACCAGCGCCAGCCCACACTGTCCTGTGTACGTGCCGGATCCCACATCCACCATCAAGCCG
GGGCCTAATAGCCACAACAGCAACACACCAGGAATCAGGGAGGCAGGCTCTGAGGACATC
ATCGTGGTTGCCCTGTATGATTACGAGGCCATTCACCACGAAGACCTCAGCTTCCAGAAG
GGGGACCAGATGGTGGTCCTAGAGGAATCCGGGGAGTGGTGGAAGGCTCGATCCCTGGCC
ACCCGGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGCGTTGACTCTCTGGAGACA
GAGGAGTGGTTTTTCAAGGGCATCAGCCGGAAGGACGCAGAGCGCCAACTGCTGGCTCCC
GGCAACATGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCT
TTGTCCGTGCGAGACTACGACCCTCGGCAGGGAGATACCGTGAAACATTACAAGATCCGG
ACCCTGGACAACGGGGGCTTCTACATATCCCCCCGAAGCACCTTCAGCACTCTGCAGGAG
CTGGTGGACCACTACAAGAAGGGGAACGACGGGCTCTGCCAGAAACTGTCGGTGCCCTGC
ATGTCTTCCAAGCCCCAGAAGCCTTGGGAGAAAGATGCCTGGGAGATCCCTCGGGAATCC
CTCAAGCTGGAGAAGAAACTTGGAGCTGGGCAGTTTGGGGAAGTCTGGATGGCCACCTAC
AACAAGCACACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTCGGTGGAGGCC
TTCCTGGCAGAGGCCAACGTGATGAAAACTCTGCAGCATGACAAGCTGGTCAAACTTCAT
GCGGTGGTCACCAAGGAGCCCATCTACATCATCACGGAGTTCATGGCCAAAGGAAGCTTG
CTGGACTTTCTGAAAAGTGATGAGGGCAGCAAGCAGCCATTGCCAAAACTCATTGACTTC
TCAGCCCAGATTGCAGAAGGCATGGCCTTCATCGAGCAGAGGAACTACATCCACCGAGAC
CTCCGAGCTGCCAACATCTTGGTCTCTGCATCCCTGGTGTGTAAGATTGCTGACTTTGGC
CTGGCCCGGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGGCCAAGTTCCCCATC
AAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTCACCATCAAGTCAGACGTCTGG
TCCTTTGGTATCCTGCTGATGGAGATCGTCACCTACGGCCGGATCCCTTACCCAGGGATG
TCAAACCCTGAAGTGATCCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCCAGAGAAC
TGCCCAGAGGAGCTCTACAACATCATGATGCGCTGCTGGAAAAACCGTCCGGAGGAGCGG
CCGACCTTCGAATACATCCAGAGTGTGCTGGATGACTTCTACACGGCCACAGAGAGCCAG
TACCAACAGCAGCCATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002110 unedited
NGGTCAGCATTTGTATACGATNACTATAGGCGGCCGCGNAATTCGCACGAGGCCGGGCTG
CCCGCGAGACGAGGAGCGGGCGCCCAGGATGGGGTGCATGAAGTCCAAGTTCCTCCAGGT
CGGAGGCAATACATTCTCAAAAACTGAAACCAGCGCCAGCCCACACTGTCCTGTGTACGT
GCCGGATCCCACATCCACCATCAAGCCGGGGCCTAATAGCCACAACAGCAACACACCAGG
AATCAGGGAGGCAGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCCAT
TCACCACGAAGACCTCAGCTTCCAGAAGGGGGACCAGATGGTGGTCCTAGAGGAATCCGG
GGAGTGGTGGAAGGCTCGATCCCTGGCCACCCGGAAGGAGGGCTACATCCCAAGCAACTA
TGTCGCCCGCGTTGACTCTCTGGAGACAGAGGAGTGGTTTTTCAAGGGCATCAGCCGGAA
GGACGCAGAGCGCCAACTGCTGGCTCCCGGCAACATGCTGGGCTCCTTCATGATCCGGGA
TAGCGAGACCACTAAAGGAAGCTACTCTTTGTCCGTGCGAGACTACGACCCTCGGCAGGG
AGATACCGTGAAACATTACAAGATCCGGACCCTGGACAACGGNGGCTTCTACATATCCCC
CCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACCACTANCAGAAGGNGAACGACGG
GCTCTGCCAGAAACTGTNCGTGCCCTGCATGTCTTNCAAAGCCCAGAAGCCTTGNGAGAA
AGATGCCTGGAGATCCCTCGGGAAATCCCTCAGCTGGAGAAGAAACTTGNNAGCTGGCAG
TTGGNNGAAGTCTGGATGGNCCACCTACACAGCACACCAANGGTGCAGTGAAGACGATGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002110 unedited
CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGCATTTATATCTTTTATTTAAATATT
CATTTCACTATTTTGAAAGTTTCCCTTCCAAATCACAGCTGTAACTAAAATCCAACCATT
CCAGGAAATAGAAATATCAACTTGGGGGCTTCCTGAGAATGTCAGATTGTGGATTGCAAG
AGTCAAAAAGAGATTTTCCAGTCCAACCTACCCACTGGACAGATGAGGAAACTGTGGCTG
AAGCGAGGGTGGGTGTCTGGGAGTAAGAAGGGGGTGTGGGCCCTGGCGGATGGTGCTGGA
GCCACCTTGCAGCCACCACCTGGGCACCCCCTGGCCCTGCCCTGGTCCTCCCTATCATGG
CTGCTGTTGGTACTGGCTCTCTGTGGCCGTGTAGAAGTCATCCAGCACACTCTGGATGTA
TTCCAAGGTCGGCCGCTCCTCCGGACGGTTCTTCCACCCCCGCATCCTGATGTTGCATAG
CTCCTCTGGGCAGTTCTCTGGGCGAGGTATCCGGTATCCACGCCTCCTAGCTTCCATCAC
TTCACGGTCCCACATACCTGTCGTACGGATTCCGCTCGCTCCCCCCTTTCCCTCCCTCCG
TTCCCCCTGGCTTTTTCCCCTTGTCCCCCCGCCCCATTCCCCCCATCTTCCCCCCTTTCG
CCCCTCTCCCCCTACCGGCCTCTCCTCCCCCTACTTCCCCCTCTCCCCCCTTCTTCCCCC
CCTTCTTCCTCTTTCCCCCGCCCCCTTTTCCCCCCCCCCTCCCCCGCCCCTTCCCCCACA
TTTTCACCCGCTTTCCTCCCCCCCCCGCCCTTTCCCCCCACCTTTTCTCCGCCCCCTTTT
TTCCCCCCCCCCCCCCCCATTTCCTTCCTCTCCTCCCTTCTCCCCCCCCGCCACCACCCTC
TCCTCGTCTCCCTCAACCGTTATCCCTCGCCCCCTCCCTTCTCTCCTCCGTCCCCTCTCC
TTGTCCACCTCCTCCCTTCCCACATCTCCTTCTCGCACTCCTCACTCACCCTCTCATCAT
CCACCT

Restriction Sites: NotI-NotI

ACCN: NM_002110

Insert Size: 1790 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).

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_002110.1, NP_002101.1
RefSeq Size:	2015 bp
RefSeq ORF:	1518 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:	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 (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.