

Product datasheet for **RC217022**

HCK (NM_002110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_002110) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RC217022 representing NM_002110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGGGGGCGCTCAAGCTGCGAGGATCCGGGCTGCCCGGAGACGAGGAGCGGGCGCCAGGATGGGGT
 GCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAACCTGAAACACGCGCCAGCCACA
 CTGTCTGTGTACGTGCCGGATCCACATCCACCATCAAGCCGGGGCCTAATAGCCACAACAGCAACACA
 CCAGGAATCAGGGAGGCAGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCCATTCACC
 ACGAAGACCTCAGCTTCCAGAAGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGTGAAGGC
 TCGATCCCTGGCCACCCGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGGTTGACTCTCTGGAG
 ACAGAGGAGTGGTTTTCAAGGGCATCAGCCGGAAGGACGCAGAGCGCAACTGCTGGCTCCCGCAACA
 TGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCTTTGTCGGTGCAGACTA
 CGACCCTCGGCAGGAGATACCGTGAAACATTACAAGATCCGGACCTGGACAACGGGGGCTTCTACATA
 TCCCCCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACACTACAAGAAGGGGAACGACGGGCTCT
 GCCAGAACTGTGCGTGCCCTGCATGTCTTCAAGCCCCAGAAGCCTTGGGAGAAAGATGCCTGGGAGAT
 CCCTCGGGAATCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCAGTTTGGGGAAGTCTGGATGGCCACC
 TACAACAAGCACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTGCGTGGAGGCCTTCTCG
 CAGAGGCCAACGTGATGAAAACCTCTGCAGCATGACAAGCTGGTCAAACCTCATGCGGTGGTCAACAGGA
 GCCCATCTACATCATCAGGAGTTCATGGCCAAAGGAAGCTTCTGAGACTTTCTGAAAAGTATGAGGGC
 AGCAAGCAGCCATTGCCAAAACCTATTGACTTCTCAGCCAGATGCAGAAGGCATGGCCTTCTCAGAGC
 AGAGAACTACATCCACCGAGACCTCCGAGCTGCCAACATCTTGGTCTCTGCATCCCTGGTGTGAAGAT
 TGCTGACTTTGGCTGGCCCGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGGCAAGTTCCCC
 ATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAAGTCAAGTCTGGTCTTTG
 GTATCCTGCTGATGGAGATCGTACCTACGGCCGGATCCCTTACCAGGGATGTCAAACCTGAAGTATG
 CCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAACTGCCAGAGGAGCTCTACAACATCATG
 ATGCGCTGCTGGAAAACCGTCCGGAGGAGCGCCGACCTTCGAATACATCCAGAGTGTGCTGGATGACT
 TCTACACGGCCACAGAGACCCAGTACCAACAGCAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217022 representing NM_002110
 Red=Cloning site Green=Tags(s)

MGGRSSCEDPGCPRDEERAPRMGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIKPGPNSHNSNT
 PGIREAGSEDIIVVALYDYEAIIHEDLSFQKGDQMVVLEESGEWWKARSLATRKEGYIPSNYVARVDSLE
 TEEWFFKGISRKDAERQLLAPGNMLGSFMIRDSETTKGSYLSVRDYDPRQGDVTKHYKIRTLDNNGFYI
 SPRSTFSTLQELVDHYKKGNDGLCQKLSVPCMSKPKPWEKDAWEIPRESLKLEKKLGGAGQFGEVWMAT
 YNKHTKVAVKTMKPGSMSVEAFLAEANVMKTLQHDKLVKLVAVVTKEPIYIITEFMAKGSLLDFLKSDEG
 SKQPLPKLIDFSAQIAEGMAFIEQRNYIHRDLRAANILVSASLVCKIADFGLARVIEDNEYTAREGAKFP
 IKWTAPEAINFGSFTIKSDVWSFGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRPENCPPEELYNIM
 MRCWKNRPEERPTFEYIQSVLDDFYTATESQYQQQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3462_e01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002110

ORF Size: 1578 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_002110.4](#)

RefSeq Size: 2168 bp

RefSeq ORF: 1581 bp

Locus ID: 3055

UniProt ID: [P08631](#)

Cytogenetics: 20q11.21

Domains: pkinase, SH2, TyrKc, SH3, S_TKc

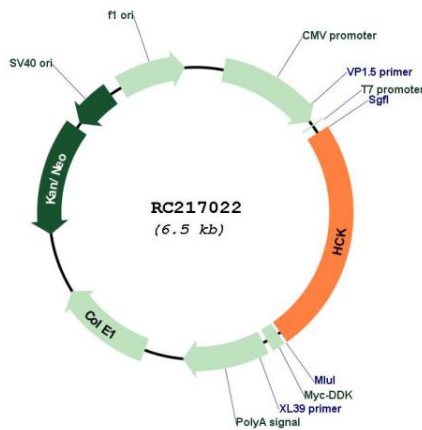
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Chemokine signaling pathway, Fc gamma R-mediated phagocytosis

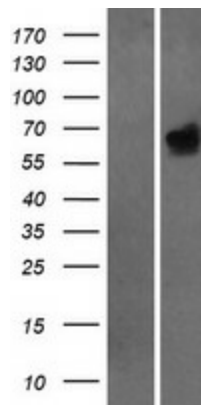
MW: 59.6 kDa

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]

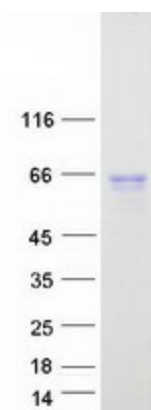
Product images:



Circular map for RC217022



Western blot validation of overexpression lysate (Cat# [LY419528]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217022 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HCK protein (Cat# [TP317022]). The protein was produced from HEK293T cells transfected with HCK cDNA clone (Cat# RC217022) using MegaTran 2.0 (Cat# [TT210002]).