

Product datasheet for **RG217022**

HCK (NM_002110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCK (NM_002110) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCK
Synonyms:	JTK9; p59Hck; p61Hck
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217022 representing NM_002110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGGGGGGCGCTCAAGCTGCGAGGATCCGGGCTGCCCGGAGACGAGGAGCGGGCGCCAGGATGGGGT
 GCATGAAGTCCAAGTTCCTCCAGGTCGGAGGCAATACATTCTCAAAAACCTGAAACACGCGCCAGCCACA
 CTGTCTGTGTACGTGCCGGATCCACATCCACCATCAAGCCGGGCTAATAGCCACAACGAAACACA
 CCAGGAATCAGGGAGGCAGGCTCTGAGGACATCATCGTGGTTGCCCTGTATGATTACGAGGCCATTCACC
 ACGAAGACCTCAGCTTCCAGAAGGGGACCAGATGGTGGTCTAGAGGAATCCGGGGAGTGGTGAAGGC
 TCGATCCCTGGCCACCCGAAGGAGGGCTACATCCCAAGCAACTATGTCGCCCGGTTGACTCTCTGGAG
 ACAGAGGAGTGGTTTTCAAGGGCATCAGCCGGAAGGACGAGAGCGCAACTGCTGGCTCCCGGCAACA
 TGCTGGGCTCCTTCATGATCCGGGATAGCGAGACCACTAAAGGAAGCTACTCTTTGTCCGTGCGAGACTA
 CGACCCTCGGCAGGAGATACCGTGAAACATTACAAGATCCGGACCTGGACAACGGGGCTTCTACATA
 TCCCCCGAAGCACCTTCAGCACTCTGCAGGAGCTGGTGGACACTACAAGAAGGGGAACGACGGGCTCT
 GCCAGAACTGTCGGTGCCTGCATGTCTTCAAGCCCCAGAAGCCTTGGGAGAAAGATGCCTGGGAGAT
 CCCTCGGGAATCCCTCAAGCTGGAGAAGAACTTGGAGCTGGGCAGTTTGGGGAAGTCTGGATGGCCACC
 TACAACAAGCACCAAGGTGGCAGTGAAGACGATGAAGCCAGGGAGCATGTCCGTGGAGGCCTTCTCGG
 CAGAGGCCAACGTGATGAAAACCTCTGCAGCATGACAAGCTGGTCAAACCTCATGCCGTGGTCAACAGGA
 GCCCATCTACATCATCACGGAGTTCATGGCCAAAGGAAGCTTCTGGACTTTCTGAAAAGTATGAGGGC
 AGCAAGCAGCCATTGCCAAAACCTATTGACTTCTCAGCCAGATTGCAGAAGGCATGGCCTTCATCGAGC
 AGAGGAACACTACATCCACCGAGACCTCCGAGCTGCCAACATCTTGGTCTCTGCATCCCTGGTGTAAAG
 TGCTGACTTTGGCTGGCCCGGTCATTGAGGACAACGAGTACACGGCTCGGGAAGGGGCCAAGTTCCCC
 ATCAAGTGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAAGTCAAGTCTGGTCTTTG
 GTATCCTGCTGATGGAGATCGTACCTACGGCCGGATCCCTTACCAGGGATGTCAAACCTGAAGTAT
 CCGAGCTCTGGAGCGTGGATACCGGATGCCTCGCCAGAGAACTGCCAGAGGAGCTCTACAACATCATG
 ATGCGCTGCTGGAAAACCGTCCGGAGGAGCGCCGACCTTCGAATACATCCAGAGTGTGCTGGATGACT
 TCTACACGGCCACAGAGGCCAGTACCAACAGCAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217022 representing NM_002110
 Red=Cloning site Green=Tags(s)

LGGRSSCEDPGCPRDEERAPRMGCMKSKFLQVGGNTFSKTETSASPHCPVYVPDPTSTIKPGPNSHNSNT
 PGIREAGSEDIIVVALYDYEAIHHEDLSFQKGDQMVVLEESGEWWKARSLATRKEGYIPSNYVARVDSLE
 TEEWFFKGISRKDAERQLLAPGNMLGSFMIRDSETTKGSYLSVRDYDPRQGDVVKHYKIRTLDNNGFYI
 SPRSTFSTLQELVDHYKKGNDGLCQKLSVPCMSKPKPWEKDAWEIPRESLKLEKLLGAGQFGEVWMT
 YNKHTKVAVKTMKPGSMSVEAFLAEANVMKTLQHDKLVKLHAVVTKEPIYIITEFMAKGSLLDFLKSDEG
 SKQPLPKLIDFSAQIAEGMAFIEQRNYIHRDLRAANILVSASLVCKIADFGLARVIEDNEYTAREGAKFP
 IKWTAPEAINFGSFTIKSDVWSFGILLMEIVTYGRIPYPGMSNPEVIRALERGYRMPRPENCPPEELYNIM
 MRCWKNRPEERPTFEYIQSVLDDFYTATESQYQQQP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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:	<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_002110.4
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:	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]