

Product datasheet for **SC315459**

HIPK3 (NM_001048200) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK3 (NM_001048200) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIPK3
Synonyms:	DYRK6; FIST3; PKY; YAK1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001048200, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCACAAGTCTTGGTCTACCCACCATATGTTTATCAAACCTCAGTCAAGTGCCCTT
TGTAAGTGTGAAGAACTCAAAGTAGAGCCAAGCAGTTGTGTATTCCAGGAAAGAACTAT
CCACGGACCTATGTGAATGGTAGAACTTTGGAAATTCTCATCCTCCCACTAAGGGTAGT
GCTTTTCAGACAAAGATACCATTTAATAGACCTCGAGGACACAACCTTTTCATTGCAGACA
AGTGCTGTTGTTTGAACAACTGCAGGTGCTACAAAGGTCATAGCAGCTCAGGCACAG
CAAGCTCACGTGCAGGCACCTCAGATTGGGGCGTGGCGAAACAGATTGCATTTCTAGAA
GGCCCCCAGCGATGTGGATTGAAGCGCAAGAGTGAGGAGTTGGATAATCATAGCAGCGCA
ATGCAGATTGTGATGAATTGTCCATACTTCTGCAATGTTGCAACCAACATGGGAAAT
CCAGTGACAGTTGTGACAGCTACCAAGGATCAAAACAGAAATGTACCACTGGAGAAGGT
GACTATCAGTTAGTACAGCATGAAGTCTTATGCTCCATGAAAAATACTTACGAAGTCCTT
GATTTTCTTGGTCGAGGCACGTTTGGCCAGGTAGTTAAATGCTGGAAAAGAGGGACAAAT
GAAATTGTAGCAATCAAAATTTTGAAGAATCATCCTTCTTATGCCCGTCAAGGTCAAATA
GAAGTGAGCATATTAGCAAGGCTCAGTACTGAAATGCTGATGAATATACTTTGTACGA
GCTTATGAATGCTTTGAGCACCCTAACCATACTTGTGTTAGTCTTTGAGATGCTGGAACAA
AACTTGTATGACTTTCTGAAACAAAATAAATTTAGTCCCCTGCCACTAAAAGTGATTCGG
CCCATTCTTCAACAAGTGGCCACTGCACTGAAAAAATTGAAAAGTCTTGGTTTAATTCAT
GCTGATCTCAAGCCAGAGAATATTATGTTGGTGGATCCTGTTCCGCGAGCCTTACAGGGTT
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CAATCTCGGTACTACAGAGCTCCAGAGATTATATTGGGGTTGCCATTTTGTGAAGCCATA
GACATGTGGTCATTGGGATGTGTGATTGCAGAATTATTTCTGGATGGCCGCTCTACCCA
GGAGCCTTGGAGTATGATCAGATTGATACATTTCTCAGACTCAAGGTTTGCCAGGAGAA
CAGTTGTAAATGTGGTACTAAATCCACAAGATTTTTTTGCAAAGAAACAGATATGTCT
CATTCTGGTTGGAGATTAAAGACATTGGAAGAGCATGAGGCAGAGACAGGAATGAAGTCT
AAAGAAGCCAGAAAATACATTTTCAACAGTCTGGATGATGTAGCGCATGTGAACACAGTG
ATGGATTGGAAGGAAGTGATCTTTTGGCTGAGAAAGCTGATAGAAGAGAATTTGTTAGT
CTGTTGAAGAAAATGTTGCTGATTGATGCAGATTTAAGAATTACTCCAGCTGAGACCCCTG
AACCATCCTTTTGTAAATATGAAACATCTTCTAGATTTCCCTCATAGCAACCATGTAAAG
TCCTGTTTTCATATTATGGATATTTGTAAGTCCCACCTAAATTCATGTGACACAAATAAT
CACAACAAAACCTCACTTTTAAGACCAGTTGCTTCAAGCAGTACTGCTACACTGACTGCA

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AATTTTACTAAAATCGGAACATTAAGAAGTCAGGCATTGACCACATCTGCTCATTCAAGT
GTGCACCATGGAATACCTCTGCAGGCAGGAAGTCTCAGTTTGGTTGGTGATGCTTTT
CAGCAGACATTGATTATCTGTCCCCAGCTATTCAAGGTATTCCTGCAACACATGGTAA
CCCACAGTTATTCAATAAGGGTAGATAATACAGTTCCACTTGTAACACAGGCCAGCT
GTGCAGCCACTACAGATCCGACCAGGAGTCTTTCTCAGACGTGGTCTGGTAGAACACAG
CAGATGCTGGTGCCTGCCTGGCAACAGGTGACACCCCTGGCTCCTGCTACTACTACATA
ACTTCTGAGAGTGTGGCTGGTTACACAGGCTTGGAGACTGGGGGAAGATGATTTATGC
AGCAATCATTATAACTCAGTGATGCCGCAGCCTCTTCTGACCAATCAGATAACTTTATCT
GCCCCCTAGCCAGTTAGTGTGGGATTGCACATGTTGTCTGGCCTCAGCCTGCCACTACC
AAGAAAAATAACAGTGCCAGAACAGGAGTAATTCATTACAGAATACCAATATCCACAT
TCAGCATTTATTTCTCCAAAGATAATTAATGGGAAAGATGTCGAGGAAGTAAGTTGTATA
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TCCCCGAGTCTGCAGTGAGTGTCTACTATCAGCAGTGACACTGATGAGGAAGAGACT
TCCAGAGACATTCACTCAGAGAATGTAAAGGTAGTCTAGATTGTGAAGCTTGCCAGAGC
ACTTTGAATATTGATCGGATGTGTTTATTAAAGTAGTCCTGATAGTACTCTGAGTACCAGC
TCCTCAGGGCAGTCCAGCCCATCCCCCTGCAAGAGACCGAATAGTATGTCAGATGAAGAG
CAAGAAAGTAGTTGTGATACGGTGGATGGCTCTCCGACATCTGACTCTTCCGGGCATGAC
AGTCCATTTGCAGAGAGCACTTTTGTGGAGGACACTCATGAAAACACAGAATTGGTATCC
TCTGCTGACACAGAAACCAAGCCAGCTGTCTGTTCTGTTGGTGCCACCAGTGGAACATA
GAAAATGGCTTAAATGCCGATGAGCATATGGCAAACACAGATTCTATATGCCAGCCATTA
ATAAAGGACGATCTGCCCTGGAAGATTAAACCAGCCTTCTGCAGTGGGTAAGTCTGTCAG
CAAAAATTGACATCAGCATTCCAGCAGCAGCATTGAACTTCAGTCAGGTTTCAGCACTTT
GGATCTGGGCATCAAGAGTGGAATGGAACCTTTGGGCACAGAAGACAGCAAGCTTATATT
CCTACTAGTGTTACAGTAATCCATTCACTCTTTCTCATGGAAGTCCCAATCACACAGCA
GTGCATGCCACCTGGCTGGAAATACACACCTCGGAGGACAGCCTACTCTACTTCCATAC
CCATCATCAGCCACCCTCAGTAGTGCTGCACCAGTGGCCACCTGTTAGCCTCTCCGTGT
ACCTCAAGACCTATGTTACAGCATCCAATTATAATATCTCCATCCCAGTGGCATAGTT
CACCAAGTCCCAGTGGGCTTAAATCCCCGTCTGTTACCATCCCCAACCATTTCATCAGACT
CAGTACAAACCAATCTTCCACCACATTCTTACATTGCAGCATCACCTGCATATACTGGA
TTTCCACTGAGTCCAACAAAACCTCAGCCAGTATCCATATATG
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Restriction Sites:

Please inquire

ACCN:

NM_001048200

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:	<u>NM_001048200.1</u> , <u>NP_001041665.1</u>
RefSeq Size:	4680 bp
RefSeq ORF:	3585 bp
Locus ID:	10114
UniProt ID:	<u>Q9H422</u>
Cytogenetics:	11p13
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Gene Summary:	Serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression. Phosphorylates JUN and RUNX2. Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors. The phosphorylation of NR5A1 activates SF1 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. In osteoblasts, supports transcription activation: phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) lacks an in-frame exon in the central region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1. Variants 2, 3 and 4 encode the same isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.