

Product datasheet for **SC323551**

HIPK3 (NM_005734) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK3 (NM_005734) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIPK3
Synonyms:	DYRK6; FIST3; PKY; YAK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005734, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCACAAGTCTTGGTCTACCCACCATATGTTTATCAAACCTCAGTCAAGTGCCTTTTGTAGTGTGA
AGAAACTCAAAGTAGAGCCAAGCAGTTGTGTATCCAGGAAAGAACTATCCACGGACCTATGTGAATGG
TAGAACTTTGGAAATTCTCATCTCCCACTAAGGGTAGTGCTTTTCAGACAAAGATACCATTTAATAGA
CCTCGAGGACACAACCTTTTCATTGCAGACAAGTGTGTTGTTTTGAAAACTGCAGGTGCTACAAAGG
TCATAGCAGCTCAGGCACAGCAAGCTCACGTGCAGGCACCTCAGATTGGGGCGTGGCGAAACAGATTGCA
TTTCTAGAAAGGCCCCAGCGATGTGGATTGAAGCGCAAGAGTGAGGAGTTGGATAATCATAGCAGCGCA
ATGCAGATTGTGCATGAATTGTCCATACTTCTGCAATGTTGCAAACCAACATGGGAAATCCAGTGACAG
TTGTGACAGCTACCACAGGATCAAACAGAATTGTACCACTGGAGAAGGTGACTATCAGTTAGTACAGCA
TGAAGTCTTATGCTCCATGAAAAATACTTACGAAGTCCTTGATTTTCTTGGTCGAGGCACGTTTGGCCAG
GTAGTTAAATGCTGGAAAAGAGGGACAAATGAAATTGTAGCAATCAAATTTTGAAGAATCATCCTTCTT
ATGCCCGTCAAGGTCAAATAGAAGTGAGCATATTAGCAAGGCTCAGTACTGAAAATGCTGATGAATATAA
CTTTGTACGAGCTTATGAATGCTTTTCAGCACCGTAACCATACTTGTGTTAGTCTTTGAGATGCTGGAACA
AACTTGTATGACTTTCTGAAACAAAATAAATTTAGTCCCCTGCCACTAAAAGTGATTCGGCCCATTTCTC
AACAAAGTGGCCACTGCACTGAAAAAATTGAAAAGTCTTGGTTTAAATTCATGCTGATCTCAAGCCAGAGAA
TATTATGTTGGTGGATCCTGTTTCGGCAGCCTTACAGGGTTAAAGTAATAGACTTTGGGTCGGCCAGTCA
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TGCCATTTTGTGAAGCCATAGACATGTGGTCATTGGGATGTGATTGCAGAATTATTTCTTGGATGGCC
GCTCTACCCAGGAGCCTTGGAGTATGATCAGATTTCGATACATTTCTCAGACTCAAGGTTTGGCAGGAGAA
CAGTTGTTAAATGTGGTACTAAATCCACAAGATTTTTTTGCAAAGAAACAGATATGCTCATTCTGGTT
GGAGATTAAGACATTGGAAGAGCATGAGGCAGAGACAGGAATGAAGTCTAAAGAAGCCAGAAAATACAT
TTTCAACAGTCTGGATGATGTAGCGCATGTGAACACAGTATGGATTTGGAAGGAAGTATCTTTTGGCT
GAGAAAGCTGATAGAAGAGAATTTGTTAGTCTGTTGAAGAAAATGTTGCTGATTGATGCAGATTTAAGAA
TTACTCCAGCTGAGACCCTGAACCATCCTTTTGTAAATATGAAACATCTTCTAGATTTCCCTCATAGCAA

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CCATGTAAGTCCTGTTTTATATTATGGATATTTGTAAGTCCCACCTAAATTCATGTGACACAAATAAT
 CACAACAAAACCTCACTTTAAGACCAGTTGCTCAAGCAGTACTGCTACACTGACTGCAAAATTTACTA
 AAATCGGAACATTAAGAAGTCAGGCATTGACCACATCTGCTCATTGAGTTGTGCACCATGGAATACCTCT
 GCAGGCAGGAAGTCTCAGTTTGGTTGTGGTGATGCTTTTCAGCAGACATTGATTATCTGTCCCCAGCT
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 TTGTAACCTCAGGCCCCAGCTGTGCAGCCACTACAGATCCGACCAGGAGTCTTTCTCAGACGTGGTCTGG
 TAGAACACAGCAGATGCTGGTCCCTGGCAACAGGTGACACCCTGGCTCCTGCTACTACTACACTA
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 ATAACCTAGTGATGCCGAGCCTCTTCTGACCAATCAGATAAATTTATCTGCCCTCAGCCAGTTAGTGT
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 AGTAAGTTGTATAGAAACACAGGACAATCAGAACTCAGAAGGAGAGGCAAGAAATGCTGTGAAACATCT
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 GTCCTGCAGTGAGTGTCATCACTATCAGCAGTGACACTGATGAGGAAGAGACTTCCAGAGACATTCCT
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 CGAATAGTATGTCAGATGAAGAGCAAGAAAGTAGTTGTGATACGGTGGATGGCTCTCCGACATCTGACTC
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 TCCTCTGCTGACACAGAAACCAAGCCAGCTGTCTGTTCTGTTGTGGTGCCACCAGTGAAGTAAAGT
 GCTTAAATGCCGATGAGCATATGGCAAACAGATTCTATATGCCAGCCATTAATAAAGGACGATCTGC
 CCCTGGAAGATTAACCCAGCCTTCTGCAGTGGTACTCGTCAGCAAAAATTGACATCAGCATTCCAGCAG
 CAGCATTTGAACTTCAGTCAGTTTCAAGCACTTTGGATCTGGGCATCAAGAGTGAATGGAATTTGGGC
 ACAGAAGACAGCAAGCTTATATTCTACTAGTGTACCAGTAATCCATTACTCTTTCTCATGGAAGTCC
 CAATCACACAGCAGTGATGCCACCTGGCTGGAATACACACCTCGGAGGACAGCCTACTCTACTTCCA
 TACCCATCATCAGCCACCCTCAGTAGTGTGCACCAGTGGCCACCTGTTAGCCTCTCCGTGTACCTCAA
 GACCTATGTTACAGCATCCAATTATAATATCTCCCATCCAGTGGCATAGTTCACCAAGTCCCAGTGGG
 CTAAATCCCCGTCTGTTACCATCCCCAACCATTCATCAGACTCAGTACAAACCAATCTTCCACCACAT
 TCTTACATTGCAGCATCACCTGCATATACTGGATTTCCACTGAGTCCAACAAAACCTCAGCCAGTATCCAT
 ATATGTGA

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for mutant NM_005734 unedited
 ACCCGCCCGTTGCAGCAATGGGCGGTAGGCGTGTACAGGAGGGAGGTCTATATAAGCAGAGCTCGTTT
 TGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAAGATGAGG
 GAGACGGGCCCGCGCTTAGCAGCCAGAGCAGCAGCAGCAGCAGCAGCGGTCCGGGGAGGGTGTTCGCC
 GTTTCCTCTCAGCCGCCAGGACAAGATGGCAGCGGCCGCGGAGAGGGCTGAGCCCGGGTGGTGGTGC
 CGCTGCTGAAGCGCCTGGCTCCCGGTCCCGGCACGGCCCTGCGCCCCCCCCCGACATGCTCAGGGC
 TCGGGGCCCGCCGAAAAAGGAGAGAGCGCGGGCTCTAGGAAGGTATGGCTCCCAAGTCTGGGTCTAAC
 CCCCCATATGTTTATTCAAATCAGTCCAATGGCCTTTGGTATGGGGAGAAAACTCAAAGTAAAAGCCAAC
 CAGTTGGGTTTTCCAGGAAAAAACTATCCCCGGACCTTTGGGATGGGGAAAACTTTGGAAAAATCCC
 ATCTTCCCCAAGGGTAGGCTTTTCAAACAAAAATCCCTTTTAAATAGACCCTCGGGACCAACTTTT
 TCATTTCAAAAAAAGGCTTTTGTGTTTTGAAAAACCCTGGAGGGGCCCAAGGGTAAAAGCCTTAGG
 GCACACAGTTCCTGTGCGGGGCCCTAAAAGGGGGGTGTGGAAAAAAAATGTGTTTTTATAAGAGC
 CCCCCCATATGTGTTTTGCGCCCAAGAGGAGTGAGGTGTGTGATAATCTATACGCCAGTCCGGATG
 TGTGTCAAGATATTCGCACTCTCTCCGCGTGTGTGACACACAGTGAGAATCCGCTGCGTGTGACACAC
 CACAGCTCACAATTATCCCCGGAGGAGGATCTATATTATTACGCGGAGTATTTCTCGCCGAAAA
 TATACATGACTAG

Kinase Domain Sequence:	>SC323551 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation ARTCTTGWTTTCTTGGTCGAGGCACGTTTGCCAGGTAGTTAAATGCTGGAAAAGAGGGACAAATGAAAT TGTAGCAATCATGATTTTGAAGAATCATCCTTCTTATGCCCGTCAAGGTCAAATAGAAGTGAGCATATTA GCAAGGCTCAGTACTGAAAATGCTGATGAATATAACTTTGTACGAGCTTATGAATGCTTTCAGCACCGTA ACCATACTTGTTAGTCTTTGAGATGCTGGAACAAAACCTTGATG
Restriction Sites:	Please inquire
ACCN:	NM_005734
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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell , 2008 May p536-548.
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_005734.2 , NP_005725.2
RefSeq Size:	3657 bp
RefSeq ORF:	3648 bp
Locus ID:	10114
UniProt ID:	Q9H422
Cytogenetics:	11p13
Domains:	pkinase, TyrKc, S_TKc
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 (1) encodes the longer isoform (1). 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.