

## Product datasheet for **SC337931**

### HIPK3 (NM\_001278163) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK3 (NM_001278163) 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_001278163, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCACAAGTCTTGGTCTACCCACCATATGTTTATCAAACCTCAGTCAAGTGCCTTTTGTAGTGTGA
AGAAACTCAAAGTAGAGCCAAGCAGTTGTGATTCCAGGAAAGAACTATCCACGGACCTATGTGAATGG
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CCTCGAGGACACAACCTTTTCATTGCAGACAAGTGTGTTGTTTAAAAACACTGCAGGTGCTACAAGG
TCATAGCAGCTCAGGCACAGCAAGCTCAGTGCAGGCACCTCAGATTGGGGCGTGCGAAACAGATTGCA
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AACCAAGTGGCCACTGCACTGAAAAAATTGAAAAGTCTTGGTTAATTCATGCTGATCTCAAGCCAGAGAA
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CACAAACAAAACCTCACTTTAAGACCAGTTGCTTCAAGCAGTACTGCTACACTGACTGCAAAATTTACTA
AAATCGGAACATTAAGAAGTCAGGCATTGACCACATCTGCTCATTGATGTCACCATGGAATACCTCT
GCAGGCAGGAAGTCTCAGTTTGGTTGTGGTGTGCTTTTCAGCAGACATTGATTATCTGTCCCCAGCT
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ATTCAAGGTATTCTGCAACACATGGTAAACCCACCAGTTATTCAATAAGGGTAGATAATACAGTCCAC
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TAGAACACAGCAGATGCTGGTGCCTGCCTGGCAACAGGTGACACCCCTGGCTCCTGCTACTACTACACTA
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ACCTCAAGACCTATGTTACAGCATCCAACTTATAATATCTCCATCCCAGTGGCATAGTTCACCAAGTCC
CAGTGGGCTTAAATCCCGTCTGTTACCATCCCAACCATTTCATCAGACTCAGTACAAACCAATCTTCCC
ACCACTTCTTACATTGCAGCATCACCTGCATATACTGGATTTCCACTGAGTCCAACAAAACCTCAGCCAG
TATCCATATATGTGA
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001278163
- 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\\_001278163.1](#), [NP\\_001265092.1](#)
- RefSeq Size:** 7134 bp
- RefSeq ORF:** 3585 bp
- Locus ID:** 10114

UniProt ID: [Q9H422](#)

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 (4) differs in the 5' UTR and 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.