

Product datasheet for **MC223880**

Hipk3 (NM_001145824) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hipk3 (NM_001145824) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hipk3
Synonyms: DYRK6; FIST3; mir-1902; PKY
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223880 representing NM_001145824
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCTCACAAAGTCTTGGTCTACCCACCGTATGTTTATCAAACCTCAGTCAAGTGCCTTTTGTAGTGTGA
AGAACTCAAAGTAGAGCCAAGCGTTGTGTTTCCAGGAAAGAACCTATCCTCAGATCCATGTGAATGG
TAGAACTTTGGCAATTCTCATCTTCCACGAAAGGTAGTGCTTCCAGACAAAGATACCATTTACTAAA
CCTCGAGGACACAGCTTTTCATTGCAGGCAGGTGCCATTGTTGTCAAAGACACTGCCGGTGTACAAAGG
TCCTAGCAGCTCAGGCGCAGCAGGCTGGAGTGGAGGCACCGCGGGCCGTGGTGTGGAGAAACAGGTTACA
TTTCTAGAAAGGGCCCCAGCGATGCGGGTTAAAGCGCAAGAGTGAGGAGTTGGAGAATCACAGCGGCGCG
ATGCAGATTGTTGATGAACTGTCCATACTTCTGCAATGTTGCAAACCAACATGGGAAACCCAGTGACAG
TTGTGACAGCGACCACAGGATCGAAGCAGAAGTGCACCAGCGGGGAAGGCGACTATCAGTTAGTGCAGCA
TGAAGTCTTTGCTCTATGAAAAACACGTATGAAGTCTGGATTTTCTTGGTCTGGCAGTCTTTGGCCAG
GTTGTCAAATGCTGGAAGAGAGGGACAAATGAAATTTAGCCATTAATAATTTGAAGAATCACCCCTTCGT
ATGCACGTCAAGGGCAGATAGAAGTGAGCATCTTGGCAAGGCTGAGTACAGAGAACGCTGATGAGTATAA
CTTTGTGCGAGCCATGAGTGTCCAGCACCGTAACACACCTGCCTAGTCTTTGAGATGCTGGAGCAG
AACCTGTATGACTTCTGAAACAGAATAAATTCAGTCCCTGCCCTGAAGGTGATCCGGCTGTTCTTC
AGCAAGTGGCCACTGCACTGAAGAAATTAAGTCTTGGTTAATTCATGCTGACCTCAAACCAGAGAA
TATTATGTTGGTGGATCCTGTTCCGACCGGTACAGGGTTAAAGTGATAGACTTTGGATCGGCCAGTCAT
GTATCAAAGACTGTTGCTCAACGTATCTTCAATCTCGCTACTACAGAGCTCCAGAGATTATTTGGGGT
TGCCGTTTTGTGAAGCCATAGACATGTGGTCACTGGGATGCGTGATCGCAGAGTTATTCCTTGGATGGCC
ACTCTACCCAGGAGCCTTGGAGTATGATCAGATCCGATACATTTCTCAGACTCAAGGTTTACCAGGAGAG
CAATTGTTGAATGTGGGTACAAAATCCACAAGATTTTTTGCAGAGAAACAGATATGTCTCATTCTGGTT
GGAGGTTAAAGACACTGGAAGAGCATGAGGCAGAGACAGGAATGAAGTCTAAAGAGGCCAGAAAGTACAT
ATTCAACAGTCTGGACGATATAGTGCATGTGAACACAGTATGACTTGGAGGAGGTGATCTCTTGGCT
GAGAAAGCTGATAGAAGAGAATTTGTAATCTGTTGAAGAAAATGTTGCTGATTGATGCAGATTTAAGAA



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TTACTCCAATTGAGACTCTGAACCACCCATTTCGTTAATATGAAGCATCTACTAGATTTTCTCACAGCAA
 CCATGTAAGTCTGTTTTTCATATCATGGATATTTGTAAGTCTCCGAGTTCATGTGAAACAAATAACCAC
 AGTAAATGTCACCTTACGACCAGTCGCATCGAATGGCACTGCTGCTCTAGCAGCAAATTTACTAAAG
 TCGGGACACTAAGAAGTCAGGCGTTAACACATCTGCTCACTCTGTTGTGCACCATGGCATACTCTGCA
 GGCGGGGACTGCACAGTTCGGTTGTGGAGATGCTTTTCATCAGACCCTGATTATCTGTCCCCAGCTATC
 CAAGGTATTCCTGCAGCACATGGTAAACCCACCAGTTATCCATAAAGGTAGACAATACAGTTCGGCTTG
 TAACTCAGGCCCCAGCTGTGCAGCCTCTGCAGATCCGACCTGGAGTCTTTCCACAGACATGGTCTGGTGC
 AACACAGCAGATGCTAATACCTGCCTGGCAGCAGGTAACACCCATGGCTCCTGCTGCCGCAACACTAAT
 TCTGAAGGCATGGCTGGTTCTCAGAGGCTTGGAGACTGGGGGAAAATGATTCCACACAGCAATCATTACA
 ACTCGGTGATGCCACCGCCTCTTCTAACCAACCAGATCACATTATCAGCCCTCAGCCTATCAGCGTGGG
 CATTGCACATGTTGTCTGGCCTCAGCCTGCCACTACCAAGAAAAAAGTTGTGCCAGAACAGGAGTAAT
 TCATTGCAGAACCAATATCCACATTCAGCATTATTTCTCCAAGATAATCAGTGGGAAAGAGGTTG
 AGGAAGTAAGTTGTGTAGACACACAGGACAATCATACCTCAGAAGGAGAGGCCGGAATTGCCGTGAAGC
 GTCTGTCAGACAGGATTCTTCAGTCTCAGACAAACAGCGGCAAACCATCATCATTGCCGACTCCCCGAGT
 CCTGCCGTGAGTGTGATCACCATTAGCAGTGACAGCGATGATGAAGAGACCTCACCCAGACCTTCACTCC
 GAGAGTGTAAAGGTAGTCTAGATTGTGAAGCTTGCCAAAGCACTTGAATATTGATCGGATGTGTTCACT
 CAGCAGTCTGATAGCACTCTGAGCACCAGCTCCTCAGGGCAGTCCAGCCGTCCTCCTTGAAGAGACCG
 AACAGCATGTGAGATGATGAACAAGAAAGCGGGTGTGAGACTGTGGATGGCTCTCCAACATCAGACTCCT
 CGGGGCACGACAGTCCATTTGCAGAGAACAGTTTTGTGGAGGATGCTCATCAGAACACAGAGCTGGGGAC
 CTGTGCTGGCCCAGAAGCCAAGCCAGCTGTTGGCACTGCTGTGGAGCCACCGGTGGGGAGAGAAAGTGA
 CTGAGTGTGACGAGCACATGGCAAACACGGATTCTACATGCCAGCCATTGAGAAAAGGCCAGCCTGCC
 CCGGAAAGCTGCACCAGCCTCTGCCCTGGGCGCTCGTCAGCAGAAGCCCGCAGCAGCGTTCCTCAGCA
 GCATTTGAACCTGAGCCAGGTTACGATTTCCGAACTGGGCATCAAGAATGGAATGGAACCTTTGGGCAT
 CGAAGACAGCAAGCATATATTCCTACTAGTGTACCAGTAATCCATTACGCTTTTCTCATGGAAAGTCTTA
 ACCACACAGCAGTACATGCCATCTGGCTGGAAGTACACACCTCGGAGGACAGCCTACTCTGCTCCATA
 CCCATCATCAGCCTCCCTCAGTAGTGTGCACCCGTGGCCACCTCCTAGCCTCTCCGTGTACCTCAAGA
 CCTATGTTACAGCATCCAACCTTACAATATCTCCCATCCCAGTGGCATAGTTCACCAAGTCCCAGTGGGCA
 TAAACCCCGCCTGTTACCATCCCCAACCATTCATCAGACTCAGTACAAACCAATCTTCCCTCCACATTC
 TTACATTGCAGCATCACCTGCGTATACTGGATTCCATTGAGTCCAACAAAACCTCAGCCAGTATCCATAT
 ATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001145824

Insert Size:

3576 bp

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_001145824.1](#), [NP_001139296.1](#)

RefSeq Size: 7494 bp

RefSeq ORF: 3576 bp

Locus ID: 15259

Cytogenetics: 2 E2

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 (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is one aa shorter compared to 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.