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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC223880 representing NM_001145824
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCACAAGTCTTGGTCTACCCACCGTATGTTTATCAAACTCAGTCAAGTGCCTTTTGTAGTGTGA
AGAAACTCAAAGTAGAGCCAAGCGGTTGTGTTTTCCAGGAAAGAACCTATCCTCAGATCCATGTGAATGG
TAGAAACTTTGGCAATTCTCATCCTTCCACGAAAGGTAGTGCTTTCCAGACAAAGATACCATTTACTAAA
CCTCGAGGACACAGCTTTTCATTGCAGGCAGGTGCCATTGTTGTCAAAGACACTGCCGGTGCTACAAAGG
TCCTAGCAGCTCAGGCGCAGCAGGCTGGAGTGGAGGCACCGCGGGCCGTGGTGTGGAGAAACAGGTTACA
TTTCCTAGAAGGGCCCCAGCGATGCGGGTTAAAGCGCAAGAGTGAGGAGTTGGAGAATCACAGCGGCGCG
ATGCAGATTGTTGATGAACTGTCCATACTTCCTGCAATGTTGCAAACCAACATGGGAAACCCAGTGACAG
TTGTGACAGCGACCACAGGATCGAAGCAGAACTGCACCAGCGGGGAAGGCGACTATCAGTTAGTGCAGCA
TGAAGTCCTTTGCTCTATGAAAAACACGTATGAAGTCCTGGATTTTCTTGGTCGTGGCACTTTTGGCCAG
GTTGTCAAATGCTGGAAGAGAGGGACAAATGAAATTGTAGCCATTAAAATTTTGAAGAATCACCCTTCGT
ATGCACGTCAAGGGCAGATAGAAGTGAGCATCTTGGCAAGGCTGAGTACAGAGAACGCTGATGAGTATAA
CTTTGTGCGAGCCTATGAGTGCTTCCAGCACCGTAACCACACCTGCCTAGTCTTTGAGATGCTGGAGCAG
AACCTGTATGACTTCCTGAAACAGAATAAATTCAGTCCCCTGCCCCTGAAGGTGATCCGGCCTGTTCTTC
AGCAAGTGGCCACTGCACTGAAGAAATTAAAAAGTCTTGGTTTAATTCATGCTGACCTCAAACCAGAGAA
TATTATGTTGGTGGATCCTGTTCGCCAGCCGTACAGGGTTAAAGTGATAGACTTTGGATCGGCCAGTCAT
GTATCAAAGACTGTTTGCTCAACGTATCTTCAATCTCGCTACTACAGAGCTCCAGAGATTATATTGGGGT
TGCCGTTTTGTGAAGCCATAGACATGTGGTCACTGGGATGCGTGATCGCAGAGTTATTCCTTGGATGGCC
ACTCTACCCAGGAGCCTTGGAGTATGATCAGATCCGATACATTTCTCAGACTCAAGGTTTACCAGGAGAG
CAATTGTTGAATGTGGGTACAAAATCCACAAGATTTTTTTGCAGAGAAACAGATATGTCTCATTCTGGTT
GGAGGTTAAAGACACTGGAAGAGCATGAGGCAGAGACAGGAATGAAGTCTAAAGAGGCCAGAAAGTACAT
ATTCAACAGTCTGGACGATATAGTGCATGTGAACACAGTGATGGACTTGGAAGGAGGTGATCTCTTGGCT
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GAGAAAGCTGATAGAAGAGAATTTGTTAATCTGTTGAAGAAAATGTTGCTGATTGATGCAGATTTAAGAA
TTACTCCAATTGAGACTCTGAACCACCCATTCGTTAATATGAAGCATCTACTAGATTTTCCTCACAGCAA
CCATGTAAAGTCCTGTTTTCATATCATGGATATTTGTAAGTCTCCGAGTTCATGTGAAACAAATAACCAC
AGTAAAATGTCACTCTTACGACCAGTCGCATCGAATGGCACTGCTGCTCTAGCAGCAAACTTTACTAAAG
TCGGGACACTAAGAAGTCAGGCGTTAACCACATCTGCTCACTCTGTTGTGCACCATGGCATACCTCTGCA
GGCGGGGACTGCACAGTTCGGTTGTGGAGATGCTTTTCATCAGACCCTGATTATCTGTCCCCCAGCTATC
CAAGGTATTCCTGCAGCACATGGTAAACCCACCAGTTATTCCATAAGGGTAGACAATACAGTTCCGCTTG
TAACTCAGGCCCCAGCTGTGCAGCCTCTGCAGATCCGACCTGGAGTCCTTTCACAGACATGGTCTGGTCG
AACACAGCAGATGCTAATACCTGCCTGGCAGCAGGTAACACCCATGGCTCCTGCTGCCGCAACACTAACT
TCTGAAGGCATGGCTGGTTCTCAGAGGCTTGGAGACTGGGGGAAAATGATTCCACACAGCAATCATTACA
ACTCGGTGATGCCACCGCCTCTTCTAACCAACCAGATCACATTATCAGCCCCTCAGCCTATCAGCGTGGG
CATTGCACATGTTGTCTGGCCTCAGCCTGCCACTACCAAGAAAAATAAGTTGTGCCAGAACAGGAGTAAT
TCATTGCAGAACACCAATATCCCACATTCAGCATTTATTTCTCCAAAGATAATCAGTGGGAAAGAGGTTG
AGGAAGTAAGTTGTGTAGACACACAGGACAATCATACCTCAGAAGGAGAGGCCGGAACTTGCCGTGAAGC
GTCTGTCAGACAGGATTCTTCAGTCTCAGACAAACAGCGGCAAACCATCATCATTGCCGACTCCCCGAGT
CCTGCCGTGAGTGTGATCACCATTAGCAGTGACAGCGATGATGAAGAGACCTCACCCAGACCTTCACTCC
GAGAGTGTAAAGGTAGTCTAGATTGTGAAGCTTGCCAAAGCACTTTGAATATTGATCGGATGTGTTCACT
CAGCAGTCCTGATAGCACTCTGAGCACCAGCTCCTCAGGGCAGTCCAGCCCGTCCCCTTGCAAGAGACCG
AACAGCATGTCAGATGATGAACAAGAAAGCGGGTGTGAGACTGTGGATGGCTCTCCAACATCAGACTCCT
CGGGGCACGACAGTCCATTTGCAGAGAACAGTTTTGTGGAGGATGCTCATCAGAACACAGAGCTGGGGAC
CTGTGCTGGCCCAGAAGCCAAGCCAGCTGTTGGCACTGCTGTGGAGCCACCGGTGGGGAGAGAAAGTGGA
CTGAGTGTTGACGAGCACATGGCAAACACGGATTCTACATGCCAGCCATTGAGAAAAGGCCAGCCTGCCC
CCGGAAAGCTGCACCAGCCTCCTGCCCTGGGCGCTCGTCAGCAGAAGCCCGCAGCAGCGTTCCCTCAGCA
GCATTTGAACCTGAGCCAGGTTCAGCATTTCGGAACTGGGCATCAAGAATGGAATGGAAACTTTGGGCAT
CGAAGACAGCAAGCATATATTCCTACTAGTGTTACCAGTAATCCATTCACGCTTTCTCATGGAAGTCCTA
ACCACACAGCAGTACATGCCCATCTGGCTGGAAGTACACACCTCGGAGGACAGCCTACTCTGCTTCCATA
CCCATCATCAGCCTCCCTCAGTAGTGCTGCACCCGTGGCCCACCTCCTAGCCTCTCCGTGTACCTCAAGA
CCTATGTTACAGCATCCAACTTACAATATCTCCCATCCCAGTGGCATAGTTCACCAAGTCCCAGTGGGCA
TAAACCCCCGCCTGTTACCATCCCCAACCATTCATCAGACTCAGTACAAACCAATCTTCCCTCCACATTC
TTACATTGCAGCATCACCTGCGTATACTGGATTTCCATTGAGTCCAACAAAACTCAGCCAGTATCCATAT
ATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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).

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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.

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