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# Product datasheet for MC223939

## Hipk1 (NM_010432) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Hipk1 (NM_010432) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Hipk1 |
| **Synonyms:** | 1110062K04Rik; Myak |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |

**Fully Sequenced ORF:**

>MC223939 representing NM_010432
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCACAGCTGCAGGTGTTTTCGCCCCCATCAGTGTCGTCGAGTGCCTTCTGCAGTGCAAAGAAAC
TGAAAATAGAGCCCTCTGGCTGGGATGTTTCAGGACAGAGCAGCAACGACAAATACTATACCCACAGCAA
AACCCTCCCAGCTACACAAGGGCAAGCCAGCTCCTCTCACCAGGTAGCAAATTTCAATCTTCCTGCTTAC
GACCAGGGCCTCCTTCTCCCAGCTCCTGCCGTGGAGCATATTGTGGTAACAGCTGCTGATAGCTCAGGCA
GCGCCGCTACAGCAACCTTCCAAAGCAGCCAGACCCTGACTCACAGGAGCAACGTTTCTTTGCTTGAGCC
ATATCAAAAATGTGGATTGAAGAGAAAGAGTGAGGAAGTGGAGAGCAACGGTAGCGTGCAGATCATAGAA
GAACACCCCCCTCTCATGCTGCAGAACAGAACCGTGGTGGGTGCTGCTGCCACGACCACCACTGTGACCA
CCAAGAGTAGCAGTTCCAGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCTTTGCTCTATGAC
CAACAGCTATGAAGTCCTGGAGTTCCTAGGCCGGGGGACATTTGGACAGGTGGCAAAGTGCTGGAAGCGG
AGCACCAAGGAAATTGTGGCCATTAAGATCTTGAAGAACCACCCCTCCTATGCCAGACAAGGACAGATTG
AAGTGAGCATCCTTTCCCGCCTAAGCAGTGAAAATGCTGATGAGTATAACTTTGTCCGTTCTTATGAGTG
TTTTCAGCACAAGAATCATACCTGCCTTGTGTTTGAGATGTTGGAGCAGAACTTGTACGATTTTCTAAAG
CAGAACAAGTTTAGCCCACTGCCACTCAAGTACATAAGACCAATCTTGCAGCAGGTGGCCACAGCCCTGA
TGAAGCTGAAGAGTCTTGGTCTGATTCATGCTGACCTTAAACCTGAAAACATAATGCTAGTCGATCCAGT
TCGCCAACCCTACCGAGTGAAGGTCATTGACTTTGGTTCTGCTAGTCATGTTTCCAAAGCCGTGTGTTCA
ACCTACCTGCAATCACGCTACTACAGAGCTCCTGAAATTATCCTTGGATTACCATTCTGTGAAGCTATTG
ACATGTGGTCACTGGGCTGTGTAATAGCTGAGCTGTTCCTGGGATGGCCTCTTTATCCTGGTGCTTCAGA
ATACGATCAGATTCGCTATATTTCACAAACACAAGGCCTGCCAGCTGAGTATCTTCTCAGTGCCGGAACA
AAAACAACCAGGTTTTTTAACAGAGATCCTAATTTGGGGTACCCACTGTGGAGGCTTAAGACACCTGAAG
AACATGAATTGGAAACTGGAATAAAGTCAAAAGAAGCTCGGAAGTACATTTTTAACTGTTTAGATGACAT
GGCTCAGGTAAATATGTCTACAGACTTAGAGGGGACAGATATGTTAGCAGAGAAAGCAGATCGGAGAGAG
TATATTGATCTTCTAAAGAAAATGCTGACGATTGATGCAGATAAGAGAATCACGCCTCTGAAGACTCTTA



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ACCACCAATTTGTGACGATGAGTCACCTCCTGGACTTTCCTCACAGCAGCCACGTTAAGTCCTGTTTCCA
GAACATGGAGATCTGCAAGCGGAGGGTTCACATGTATGACACAGTGAGTCAGATCAAGAGTCCCTTCACT
ACACATGTCGCTCCAAATACAAGCACAAATCTAACCATGAGCTTCAGCAACCAGCTCAACACAGTGCACA
ATCAGGCCAGTGTTCTAGCTTCCAGCTCTACTGCAGCAGCAGCTACCCTTTCTCTGGCTAATTCAGATGT
CTCGCTGCTAAACTACCAATCGGCTTTGTACCCATCGTCGGCAGCGCCAGTTCCTGGAGTTGCCCAGCAG
GGTGTTTCCTTACAACCTGGAACCACCCAGATCTGCACTCAGACAGATCCATTCCAGCAAACATTTATAG
TATGCCCACCTGCTTTTCAGACTGGACTACAAGCAACAACAAAGCATTCTGGATTCCCTGTGAGGATGGA
TAATGCTGTGCCAATTGTACCCCAGGCGCCTGCTGCTCAGCCGCTGCAGATCCAGTCAGGAGTACTCACA
CAGGGAAGCTGTACACCACTAATGGTAGCAACTCTCCACCCTCAAGTAGCCACCATCACGCCGCAGTATG
CGGTGCCCTTTACCCTGAGCTGCGCAGCAGGCCGGCCGGCGCTGGTTGAACAGACTGCTGCTGTACTGCA
AGCCTGGCCTGGAGGAACCCAACAAATTCTCCTGCCTTCAGCCTGGCAGCAGCTGCCCGGGGTAGCTCTG
CACAACTCTGTCCAGCCTGCTGCAGTGATTCCAGAGGCCATGGGGAGCAGCCAACAGCTAGCTGACTGGA
GGAATGCCCACTCTCATGGCAACCAGTACAGCACTATTATGCAGCAGCCATCTTTGCTGACCAACCATGT
GACCTTGGCCACTGCTCAGCCTCTGAATGTTGGTGTTGCCCATGTTGTCAGACAACAACAGTCTAGTTCC
CTCCCTTCAAAGAAGAATAAGCAGTCTGCTCCAGTTTCATCCAAATCCTCTCTGGAAGTCCTGCCTTCTC
AAGTTTATTCTCTGGTTGGGAGTAGTCCTCTTCGTACCACATCTTCTTATAATTCCCTAGTTCCTGTCCA
AGACCAGCATCAGCCAATCATCATTCCAGATACCCCCAGCCCTCCTGTGAGTGTCATCACTATCCGTAGT
GACACTGATGAAGAAGAGGACAACAAATACAAGCCCAATAGCTCGAGCCTGAAGGCGAGGTCTAATGTCA
TCAGTTATGTCACTGTCAATGATTCTCCAGACTCTGACTCCTCCCTGAGCAGCCCACATCCCACAGACAC
TCTGAGTGCTCTGCGGGGCAACAGTGGGACCCTTCTGGAGGGACCTGGCAGACCTGCAGCAGATGGCATT
GGCACCCGTACTATCATTGTGCCTCCTTTGAAAACACAGCTTGGCGACTGCACTGTAGCAACACAGGCCT
CAGGTCTCCTTAGCAGTAAGACCAAGCCAGTGGCCTCAGTGAGTGGGCAGTCATCTGGATGCTGTATCAC
TCCCACGGGGTACCGGGCTCAGCGAGGGGGAGCCAGCGCGGTGCAGCCACTCAACCTTAGCCAGAACCAG
CAGTCATCGTCAGCTTCAACCTCGCAGGAAAGAAGCAGCAACCCTGCTCCCCGCAGACAGCAGGCATTTG
TGGCCCCGCTCTCCCAAGCCCCCTACGCCTTCCAGCATGGCAGCCCACTGCACTCGACGGGGCACCCACA
CTTGGCCCCAGCCCCTGCTCACCTGCCAAGCCAGCCTCACCTGTATACGTACGCTGCCCCCACTTCTGCT
GCTGCATTGGGCTCCACCAGTTCCATTGCTCATCTGTTCTCCCCCCAGGGTTCCTCAAGGCATGCTGCAG
CTTATACCACACACCCTAGCACTCTGGTGCATCAGGTTCCTGTCAGTGTCGGGCCCAGCCTCCTCACTTC
TGCCAGTGTGGCCCCTGCTCAGTACCAACACCAGTTTGCCACTCAGTCCTACATCGGGTCTTCCCGAGGC
TCAACAATTTACACTGGATACCCGCTGAGTCCTACCAAGATCAGTCAGTATTCTTACTTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_010432

**Insert Size:** 3633 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_010432.2, NP_034562.2 |
| **RefSeq Size:** | 8065 bp |
| **RefSeq ORF:** | 3633 bp |
| **Locus ID:** | 15257 |
| **UniProt ID:** | O88904 |
| **Cytogenetics:** | 3 F2.2 |
| **Gene Summary:** | Serine/threonine-protein kinase involved in transcription regulation and TNF-mediated cellular apoptosis. Plays a role as a corepressor for homeodomain transcription factors. Phosphorylates DAXX and MYB. Phosphorylates DAXX in response to stress, and mediates its translocation from the nucleus to the cytoplasm. Inactivates MYB transcription factor activity by phosphorylation. Prevents MAP3K5-JNK activation in the absence of TNF. TNF triggers its translocation to the cytoplasm in response to stress stimuli, thus activating nuclear MAP3K5-JNK by derepression and promoting apoptosis. May be involved in anti-oxidative stress responses. Involved in the regulation of eye size, lens formation and retinal lamination during late embryogenesis. Promotes angiogenesis and to be involved in erythroid differentiation. May be involved in malignant squamous cell tumor formation.[UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (1) represents the longest transcript ans encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform (1). |