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Product datasheet for MC229477

Hipk1 (NM_001301304) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hipk1 (NM_001301304) 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:	>MC229477 representing NM_001301304 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
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TCAGTTATGTCACTGTCAATGATTCTCCAGACTCTGACTCCTCCCTGAGCAGCCCACATCCCACAGACAC
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CAGGTCTCCTTAGCAGTAAGACCAAGCCAGTGGCCTCAGTGAGTGGGCAGTCATCTGGATGCTGTATCAC
TCCCACGGGGTACCGGGCTCAGCGAGGGGGAGCCAGCGCGGTGCAGCCACTCAACCTTAGCCAGAACCAG
CAGTCATCGTCAGCTTCAACCTCGCAGGAAAGAAGCAGCAACCCTGCTCCCCGCAGACAGCAGGCATTTG
TGGCCCCGCTCTCCCAAGCCCCCTACGCCTTCCAGCATGGCAGCCCACTGCACTCGACGGGGCACCCACA
CTTGGCCCCAGCCCCTGCTCACCTGCCAAGCCAGCCTCACCTGTATACGTACGCTGCCCCCACTTCTGCT
GCTGCATTGGGCTCCACCAGTTCCATTGCTCATCTGTTCTCCCCCCAGGGTTCCTCAAGGCATGCTGCAG
CTTATACCACACACCCTAGCACTCTGGTGCATCAGGTTCCTGTCAGTGTCGGGCCCAGCCTCCTCACTTC
TGCCAGTGTGGCCCCTGCTCAGTACCAACACCAGTTTGCCACTCAGTCCTACATCGGGTCTTCCCGAGGC
TCAACAATTTACACTGGATACCCGCTGAGTCCTACCAAGATCAGTCAGTATTCTTACTTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001301304

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001301304.1, NP_001288233.1
RefSeq Size:	7939 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] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from genomic sequence data because no single transcript from the reference strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.