

Product datasheet for MR225509

Hipk1 (NM_010432) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hipk1 (NM_010432) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hipk1
Synonyms:	1110062K04Rik; Myak
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225509 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCACAGCTGCAGGTGTTTTCGCCCCATCAGTGTGTCGAGTGCCTTCTGCAGTGCAAAGAAAC
TGAAAATAGAGCCCTCTGGCTGGGATGTTTCAGGACAGAGCAGCAACGACAAATACTATACCCACAGCAA
AACCTCCAGCTACACAAGGGCAAGCCAGCTCCTCTCACCAGGTAGCAAATTTCAATCTTCTGCTTAC
GACCAGGGCCTCCTTCTCCAGCTCCTGCCGTGGAGCATATTGTGGTAACAGCTGCTGATAGCTCAGGCA
GCGCCGCTACAGCAACCTTCAAAGCAGCCAGACCCTGACTCACAGGAGCAACGTTTCTTTGCTTGAGCC
ATATCAAAAATGTGGATTGAAGAGAAAGAGTGAGGAAAGTGGAGAGCAACGGTAGCGTGCAGATCATAGAA
GAACACCCCTCTCATGCTGCAGAACAGAACCGTGGTGGGTGCTGCTGCCACGACCACCACTGTGACCA
CCAAGAGTAGCAGTTCACGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCTTTGCTCTATGAC
CAACAGCTATGAAGTCTGGAGTTCTAGGCCGGGGACATTTGGACAGGTGGCAAAGTGCCTGGAAGCGG
AGCACCAAGAAATGTGGCCATTAAGATCTTGAAGAACCACCCCTCCTATGCCAGACAAGGACAGATTG
AAGTGAGCATCCTTTCCCGCCTAAGCAGTGAATGCTGATGAGTATAACTTTGTCGGTCTTATGAGTG
TTTTCAGCACAAGAATCATACCTGCCTTGTTGAGATGTTGGAGCAGAAGTGTACGATTTCTAAAG
CAGAACAAGTTTAGCCCACTGCCACTCAAGTACATAAGACCAATCTTGACGAGGTGGCCACAGCCCTGA
TGAAGCTGAAGAGTCTTGGTCTGATTGCTGACCTTAAACCTGAAAACATAATGCTAGTCGATCCAGT
TCGCCAACCTACCGAGTGAAGGTCATTGACTTTGGTTCTGCTAGTCATGTTTCAAAGCCGTGTGTTCA
ACCTACCTGCAATCAGCTACTACAGAGCTCCTGAAATTATCCTTGGATTACCATTCTGTGAAGCTATTG
ACATGTGGTCACTGGGCTGTGTAATAGCTGAGCTGTTCTGGGATGGCCTCTTTATCCTGGTGTTCAGA
ATACGATCAGATTCGCTATATTTCAAAACACAAGGCCTGCCAGCTGAGTATCTTCTCAGTGCCGGAACA
AAAACAACCAGGTTTTTAAACAGAGATCCTAATTTGGGGTACCCACTGTGGAGGCTTAAGACACCTGAAG
AACATGAATTGAAAAGTGAATAAAGTCAAAGAAGCTCGGAAGTACATTTTAACTGTTTATAGATGACAT
GGCTCAGGTAATATGTCTACAGACTTAGAGGGGACAGATATGTTAGCAGAGAAAGCAGATCGGAGAGAG



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TATATTGATCTTCTAAAGAAAATGCTGACGATTGATGCAGATAAGAGAATCACGCCTCTGAAGACTCTTA
ACCACCAATTTGTGACGATGAGTCACCTCCTGGACTTTCCTCACAGCAGCCACGTTAAGTCTGTTTCCA
GAACATGGAGATCTGCAAGCGGAGGGTTACATGTATGACACAGTGAGTCAGATCAAGAGTCCCTTCACT
ACACATGTCGCTCCAAATACAAGCACAATCTAACCATGAGCTTCAGCAACCAGCTCAACACAGTGCACA
ATCAGGCCAGTGTCTAGCTTCCAGCTCTACTGCAGCAGCAGCTACCCTTCTCTGGTAATTGAGATGT
CTCGCTGCTAAACTACCAATCGGCTTTGTACCCATCGTCGGCAGCGCCAGTTCCTGGAGTTGCCACGAG
GGTGTTCCTTACAACCTGGAACCACCCAGATCTGCACCTCAGACAGATCCATTCCAGCAAACATTTATAG
TATGCCACCTGCTTTTCAGACTGGACTACAAGCAACAACAAAGCATTCTGGATTCCCTGTGAGGATGGA
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CGGTGCCCTTTACCCTGAGCTGCGCAGCAGGCCGGCCGGCGCTGGTTGAACAGACTGCTGCTGACTGCA
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CACAACCTGTCCAGCCTGCTGCAGTGATTCCAGAGGCCATGGGAGCAGCCAACAGCTAGCTGACTGGA
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GACCTTGGCCACTGCTCAGCCTCTGAATGTTGGTGTTCATGTTGTCAGACAACAACAGTCTAGTTCC
CTCCCTTCAAAGAAGAATAAGCAGTCTGCTCCAGTTTCATCCAAATCCTCTCTGGAAGTCCCTGCCTTCTC
AAGTTTATTCTCTGGTTGGGAGTAGTCCTTCTCGTACCACATCTTCTTATAATTCCTAGTTCTGTCCA
AGACCAGCATCAGCCAATCATCATTCCAGATACCCCCAGCCCTCCTGTGAGTGTCACTATCCGTAGT
GACACTGATGAAGAAGAGGACAACAATAACAAGCCCAATAGCTCGAGCCTGAAGGCGAGGTCTAATGTCA
TCAGTTATGCTACTGTCAATGATTCTCCAGACTCTGACTCCTCCCTGAGCAGCCACATCCCACAGACAC
TCTGAGTGCTCTGCGGGCAACAGTGGGACCCTTCTGGAGGGACCTGGCAGACCTGCAGCAGATGGCATT
GGCACCCGTAATCATTTGTGCCTCCTTTGAAAACACAGCTTGGCGACTGCATGTAGCAACACAGGCCCT
CAGGTCTCCTTAGCAGTAAGACCAAGCCAGTGGCCTCAGTGAGTGGCAGTCACTGTGATGCTGTATCAC
TCCCACGGGGTACCGGGCTCAGCGAGGGGGAGCCAGCGCGGTGCAGCCACTCAACCTTAGCCAGAACCAG
CAGTCATCGTCAGCTTCAACCTCGCAGGAAAGAAGCAGCAACCCTGCTCCCCGCAGACAGCAGGCATTTG
TGGCCCCGCTCTCCCAAGCCCCACGCTTCCAGCATGGCAGCCACTGCACTCGACGGGGCACCCACA
CTTGGCCCCAGCCCTGCTCACCTGCCAAGCCAGCCTCACCTGTATACGTACGCTGCCCCCACTTCTGCT
GCTGCATTGGGCTCCACCAGTTCATTGCTCATCTGTTCTCCCCCAGGGTTCTCAAGGCATGCTGCAG
CTTATACCACACACCCTAGCACTCTGGTGCATCAGGTTCTGTGAGTGTGGGGCCAGCCTCCTCACTTC
TGCCAGTGTGGCCCTGCTCAGTACCAACACCAGTTTGCCTCAGTCTACATCGGGTCTTCCCGAGGC
TCAACAATTTACTGATACCCGCTGAGTCTACCAAGATCAGTCAGTATTCTTACTTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225509 protein sequence
 Red=Cloning site Green=Tags(s)

MASQLQVFSPPSVSSSAFCSAKKLIKIEPSGWDVSGQSSNDKYYTHSKTLPATQGQASSSHQVANFNLPAY
 DQGLLLPAPAVEHIVVTAADSSGSAATATFQSSQTLTHRSNVSLLEPYQKCGLRKSEEVEVSNQSVQIEE
 EHPPLMLQNRTVVGAATTTTVTTKSSSSSGEDYQLVQHEILCSMTNSYEVLEFLGRGTFGQVAKCWKR
 STKEIVAIIKILKNHPSYARQGQIEVSILSRLSSENADEYNFVRSYECFQHKNHNTCLVFEMLEQNL YDFLK
 QNKFSPLPLKYIRPILQQVATALMKLKSLGLIHADLKPENIMLVDPVRQPYRVKVIDFGSASHVSKAVCS
 TYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGT
 KTTRFFNRDNLGYPLWRLKTPEEHELETGIKSKEARKYIFNCLDDMAQVNMSTDLEGTDLAEKADRRE
 YIDLLKMLTIDADKRITPLKTLNHQFVTMSHLLDFPHSSHVKSCFQNMIECKRRVHMYDVTVSQIKSPFT
 THVAPNTSTNL TMSFSNQLNTVHNQASVLASSSTAAAATLSLANSVSL LNYQSALYPSSAAPVPGAQQ
 GVS LQPGTTQICTQDTPFQQT FIVCPPAFQTGLQATTKHSGFPVRMDNAVPIVQAPAAQPLQIQSGVLT
 QGSCTPLMVATLHPQVATITPQYAVPFTLSAAGR PALVEQTA AVLQAWPGGTQQILLPSAWQQLPGVAL
 HNSVQPAAVIPEAMGSSQQLADWRNAHSHGNQYSTIMQQP SLLTNHVTLATAQPLNVGVAVHVRQQSSS
 LPSKKNKQSAVSSKSSLEVLPSQVYSLVGSSPLRTTSSYNSLV PVQDQHQP IIPDTPSPVSVITIRS
 DTDEEEDNKYKPNSSSLKARSNI SYVTVNDSPDSDSSLSSPHPTDLSALRGNSTLLEGPRPADGI
 GTRTII VPLKTLQGDCTVATQASGLLSKTKPVASVSGQSSGCCITPTGYRAQRGGASAVQPLNLSQNQ
 QSSSASTSQERSSNPAPRRQAFVAPLSQAPYAFQHGSPLHSTGPHLAPAPAHLPSQPHLYTYAAPTSA
 AALGSTSSIAHLFSPQSSRHAAYTTHPSTLVHQVPSVSGPSLLTSASVAPAQYQHAFATQSYIGSSRG
 STIYTGYP LSPTKISQYSYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



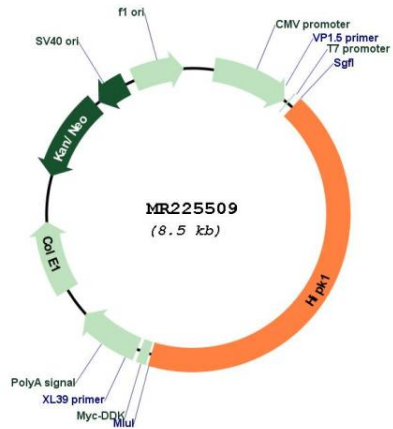
* The last codon before the Stop codon of the ORF

ACCN: NM_010432

ORF Size: 3633 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_010432.1 , NM_010432.2 , NP_034562.2
RefSeq Size:	8065 bp
RefSeq ORF:	3633 bp
Locus ID:	15257
UniProt ID:	O88904
Cytogenetics:	3 F2.2
MW:	130.7 kDa
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]

Product images:



Circular map for MR225509