

Product datasheet for MR231688

Hipk1 (NM_001301304) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hipk1 (NM_001301304) 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:	>MR231688 representing NM_001301304 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCACAGCTGCAGGTGTTTTCGCCCCATCAGTGTGTCGAGTGCCTTCTGCAGTGCAAAGAAAC
TGAAAATAGAGCCCTCTGGCTGGGATGTTTCAGGACAGAGCAGCAACGACAAATACTATACCCACAGCAA
AACCTCCAGCTACACAAGGGCAAGCCAGCTCCTCTCACCAGGTAGCAAATTTCAATCTTCTGCTTAC
GACCAGGGCCTCCTTCTCCAGCTCCTGCCGTGGAGCATATTGTGGTAACAGCTGCTGATAGCTCAGGCA
GCGCCGCTACAGCAACCTTCCAAAGCAGCCAGACCCTGACTCACAGGAGCAACGTTTCTTTGCTTGAGCC
ATATCAAAAATGTGGATTGAAGAGAAAGAGTGAGGAAAGTGGAGAGCAACGGTAGCGTGCAGATCATAGAA
GAACACCCCTCTCATGCTGCAGAACAGAACCGTGGTGGGTGCTGCTGCCACGACCACCTGTGACCA
CCAAGAGTAGCAGTTCACGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCTTTGCTCTATGAC
CAACAGCTATGAAGTCTGGAGTTCTAGGCCGGGGACATTTGGACAGGTGGCAAAGTGCCTGGAAGCGG
AGCACCAAGGAAATGTGGCCATTAAGATCTTGAAGAACCACCCCTCCTATGCCAGACAAGGACAGATTG
AAGTGAGCATCCTTTCCCGCCTAAGCAGTGAATGCTGATGAGTATAACTTTGTCGGTCTTATGAGTG
TTTTCAGCACAAGAATCATACCTGCCTTGTTGAGATGTTGGAGCAGAACTTGTACGATTTTCTAAAG
CAGAACAAGTTTAGCCCACTGCCACTCAAGTACATAAGACCAATTTGCAGCAGGTGGCCACGCCCTGA
TGAAGCTGAAGAGTCTTGGTCTGATTGCTGACCTTAAACCTGAAAACATAATGCTAGTCGATCCAGT
TCGCCAACCTACCGAGTGAAGTCACTTGTGTTGCTAGTCATGTTTCCAAAGCGGTGTTTCA
ACCTACCTGCAATCAGCTACTACAGAGCTCCTGAAATTATCCTTGGATTACCATTCTGTGAAGCTATTG
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TATATTGATCTTCTAAAGAAAATGCTGACGATTGATGCAGATAAGAGAATCACGCCTCTGAAGACTCTTA
ACCACCAATTTGTGACGATGAGTCACCTCCTGGACTTTCCTCACAGCAGCCACGTTAAGTCTGTTTCCA
GAACATGGAGATCTGCAAGCGGAGGGTTACATGTATGACACAGTGAGTCAGATCAAGAGTCCCTTCACT
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CTCCCTTCAAAGAAGAATAAGCAGTCTGCTCCAGTTTCATCCAAATCCTCTCTGGAAGTCCCTGCCTTCTC
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AGACCAGCATCAGCCAATCATCATTCCAGATACCCCCAGCCCTCCTGTGAGTGTCACTATCCGTAGT
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TCAGTTATGCTACTGTCAATGATTCTCCAGACTCTGACTCCTCCCTGAGCAGCCACATCCCACAGACAC
TCTGAGTGCTCTGCGGGCAACAGTGGGACCCTTCTGGAGGGACCTGGCAGACCTGCAGCAGATGGCATT
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CTTGGCCCCAGCCCTGCTCACCTGCCAAGCCAGCCTCACCTGTATACGTACGCTGCCCCCACTTCTGCT
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CTTATACCACACACCCTAGCACTCTGGTGCATCAGGTTCTGTGAGTGTGGGGCCAGCCTCCTCACTTC
TGCCAGTGTGGCCCTGCTCAGTACCAACACCAGTTTGCCTCAGTCTACATCGGGTCTTCCCGAGGC
TCAACAATTTACTGATACCCGCTGAGTCTACCAAGATCAGTCAGTATTCTTACTTG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231688 representing NM_001301304
 Red=Cloning site Green=Tags(s)

MASQLQVFSPPSVSSSAFCSAKKLIKIEPSGWDVSGQSSNDKYYTHSKTLPATQGQASSSHQVANFNLPAY
 DQGLLLPAPAVEHIVVTAADSSGSAATATFQSSQTLTHRSNVSLLEPYQKCGLRKSEEVEVSNQSVQIEE
 EHPPLMLQNRTVVGAATTTTVTTKSSSSSGEDYQLVQHEILCSMTNSYEVLEFLGRGTFGQVAKCWKR
 STKEIVAIIKILKNHPSYARQGQIEVSILSRLSSENADEYNFVRSYECFQHKNHNTCLVFEMLEQNL YDFLK
 QNKFSPLPKYIRPILQQVATALMKLKSGLIHADLKPENIMLVDPVRQPYRVKVIDFGSASHVSKAVCS
 TYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGT
 KTTRFFNRDPNLGYPLWRLKTPEEHELETGIKSKEARKYIFNCLDDMAQVNMSTDLEGTDLAEKADRRE
 YIDLLKMLTIDADKRITPLKTLNHQFVTMSHLLDFPHSSHVKSCFQNMIECKRRVHMYDVTVSQIKSPFT
 THVAPNTSTNL TMSFSNQLNTVHNQASVLASSSTAAAATLSLANSVSL LNYQSALYPSSAAPVPGAQQ
 GVS LQPGTTQICTQDTPFQQT FIVCPPAFQTGLQATTKHSGFPVRMDNAVPIVPQAPAAQPLQIQSGVLT
 QGSCTPLMVATLHPQVATITPQYAVPFTLSAAGR PALVEQTA AVLQAWPGGTQQILLPSAWQQLPGVAL
 HNSVQPAAVIPEAMGSSQQLADWRNAHSHGNQYSTIMQQP SLLTNHVTLATAQPLNVGVAVHVRQQSSS
 LPSKKNKQSA PVSSKSSLEVLPSQVYSLVGSSPLRTTSSYNSLV PVQDQHQP IIPDTPSPVSVITIRS
 DTDEEEDNKYKPNSSSLKARSNI SYVTVNDSPDSDSSLSPHPTDTLSALRGN SGTLLLEGPRPADGI
 GTRTII VPLKTLQGDCTVATQASGLLSKTKPVASVSGQSSGCCITPTGYRAQRGGASAVQPLNLSQNQ
 QSSSASTSQERSSNPAPRRQAFVAPLSQAPYAFQHGSPLHSTGPHLAPAPAHLPSQPHLYTYAAPTSA
 AALGSTSSIAHLFSPQSSRHAAYTTHPSTLVHQV PVS VGP SLLTSASVAPAQYQH QFATQSYIGSSRG
 STIYTG YPLSPTKISQYSYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



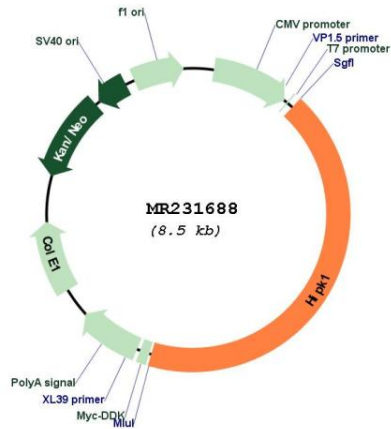
* The last codon before the Stop codon of the ORF

ACCN: NM_001301304

ORF Size: 3630 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_001301304.1 , NP_001288233.1
RefSeq Size:	7939 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 MR231688