

## Product datasheet for MR231641

### Hipk1 (NM\_001301306) Mouse Tagged ORF Clone

#### Product data:

|                          |  |
|--------------------------|--|
| Product Type:            | Expression Plasmids  |
| Product Name:            | Hipk1 (NM_001301306) Mouse Tagged ORF Clone                                    |
| Tag:                     | Myc-DDK  |
| Symbol:                  | Hipk1  |
| Synonyms:                | 1110062K04Rik; Myak  |
| Vector:                  | pCMV6-Entry (PS100001)   |
| E. coli Selection:       | Kanamycin (25 ug/mL)   |
| Cell Selection:          | Neomycin   |
| ORF Nucleotide Sequence: | >MR231641 representing NM_001301306<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCTCACAGCTGCAGGTGTTTTCGCCCCATCAGTGTGTCGAGTGCCTTCTGCAGTGCAAAGAAAC  
TGAANAATAGAGCCCTCTGGCTGGGATGTTTCAGGACAGAGCAGCAACGACAAATACTATACCCACAGCAA  
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GACCAGGGCCTCCTTCTCCAGCTCCTGCCGTGGAGCATATTGTGGTAACAGCTGCTGATAGCTCAGGCA  
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CCAAGAGTAGCAGTTCAGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCTTTGCTCTATGAC  
CAACAGCTATGAAGTCTGGAGTTCCTAGGCCGGGGACATTTGGACAGGTGGCAAAGTGTGGAAGCGG  
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TCGCCAACCCCTACCGAGTGAAGGTCACTGACTTTGTTCTGCTAGTCATGTTTCAAAGCCGTGTGTTCA  
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AACATGAATTGGAACCTGGAATAAAGTCAAAGAAGCTCGGAAGTACATTTTAACTGTTTATGATGACAT  
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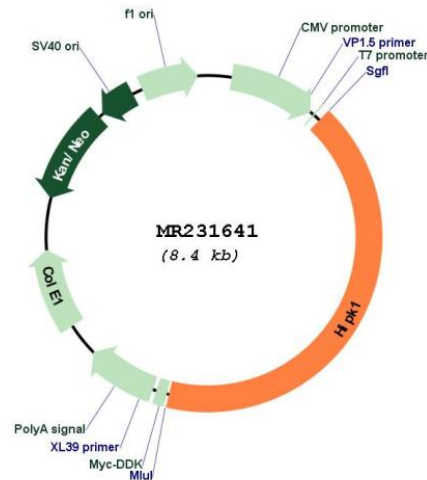


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ACCACCAATTTGTGACGATGAGTCACCTCCTGGACTTTCCTCACAGCAGCCACGTTAAGTCTGTTTCCA  
GAACATGGAGATCTGCAAGCGGAGGGTTACATGTATGACACAGTGAGTCAGATCAAGAGTCCCTTCACT  
ACACATGTCGCTCCAAATACAAGCACAATCTAACCATGAGCTTCAGCAACCAGCTCAACACAGTGCACA  
ATCAGGCCAGTGTCTAGCTTCCAGCTCTACTGCAGCAGCAGCTACCCCTTCTCTGGCTAATTGAGATGT  
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GGTGTTCCTTACAACCTGGAACCACCCAGATCTGCACTCAGACAGATCCATTCCAGCAAAACATTTATAG  
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CTGCTGCTGCATTGGGCTCCACCAGTTCATTGCTCATCTGTTCTCCCCCAGGGTTCCTCAAGGCATGC  
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ACTTCTGCCAGTGTGGCCCTGCTCAGTACCAACACCAGTTTGGCACTCAGTCTACATCGGGTCTTCCC  
GAGGCTCAACAATTTACTGATACCCGCTGAGTCTACCAAGATCAGTCAGTATTCTTACTTG

ACGGTACGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Plasmid Map:**


**ACCN:** NM\_001301306

**ORF Size:** 3495 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:**

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\\_001301306.1](#), [NP\\_001288235.1](#)

**RefSeq Size:** 7914 bp

**RefSeq ORF:** 3498 bp

**Locus ID:** 15257

**UniProt ID:** [O88904](#)

**Cytogenetics:** 3 F2.2

**MW:** 126.6 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]