

## Product datasheet for RC205420

### HIPK1 (NM\_152696) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK1 (NM_152696) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIPK1
Synonyms:	Myak; Nbak2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC205420 representing NM_152696 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCATCACAGCTGCAAGTGTTTTGCCCCCATCAGTGTGTCGAGTGCCTTCTGCAGTGCGAAGAAAC  
TGAATAATAGAGCCCTCTGGCTGGGATGTTTCAGGACAGAGTAGCAACGACAAATATTATACCCACAGCAA  
AACCCCTCCAGCCACACAAGGGCAAGCCAACTCCTCTCACCAGGTAGCAAATTTCAACATCCCTGCTTAC  
GACCAGGGCCTCCTCCTCCAGCTCCTGCAGTGGAGCATATTGTTGTAACAGCCGCTGATAGCTCGGGCA  
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ATATCAAAAATGTGGATTGAAACGAAAAAGTGAGGAAGTTGACAGCAACGGTAGTGTGCAGATCATAGAA  
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CAAAGAGTAGCAGTTCAGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCTTTGCTCTATGAC  
CAATAGCTATGAAGTCTTGAGTTCTAGGCCGGGGACATTTGGACAGGTGGCTAAGTGTGGAAGAGG  
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AAGTGAGCATCCTTTCCCGCCTAAGCAGTGAAAATGCTGATGAGTATAATTTTGTCCGTTACATACGAGT  
CTTTGAGCATAAGAATCACACCTGCCTTGTGTTTGAATGTTGGAGCAGAAGTATATGATTTTCTAAAG  
CAAAACAATTTAGCCCACTGCCACTCAAGTACATCAGACCAATCTTGCAGCAGGTGGCCACAGCCTTGA  
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ACCTACTTACAGTACGTTACTACAGAGCTCCTGAAATATTCTTGGTTACCATTTTGTGAAGCTATTG  
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AAAACAACCAGGTTTTTCAACAGAGATCCTAATTTGGGGTACCCACTGTGGAGGCTTAAGACACCTGAAG  
AACATGAACTGGAGACTGGAATAAAATCAAAGAAGCTCGGAAGTACATTTTAATTGCTTAGATGACAT  
GGCTCAGGTGAATATGTCTACAGACCTGGAGGGAACAGACATGTTGGCAGAGAAGGCAGACCCGAAGGAA  
TACATTGATCTGTTAAAGAAAATGCTCACAAATTGATGCAGATAAGAGAATTACCCCTCTAAAACTCTTA



ACCATCAGTTTGTGACAATGACTCACCTTTGGATTTTCCACATAGCAATCATGTTAAGTCTTGTTTTCA  
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 ACACATGTTGCCCAAAACAAGCACAATCTAACCATGAGCTTCAGCAATCAGTCAATACAGTGCACA  
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 CTCACTACTAACTACCAGTCAGCTTTGTACCCATCATCTGCTGCACCAGTTCCTGGAGTTGCCAGCAG  
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 CAGGGAAGCTGTACACCACTAATGGTAGCAACTCTCCACCCTCAAGTAGCCACCATCACACAGCAGTATG  
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 AGATCAGCATCAGCCCATCATATTCCAGATACTCCCAGCCCTCCTGTGAGTGTATCAGTATCCGAAGT  
 GACACTGATGAGGAAGAGGACAACAATAACAAGCCAGTACTCTGGACTGAAGCCAAGGTCTAATGTCA  
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 CAGGTCCTCTGAGCAATAAGACTAAGCCAGTCGCTTCAAGTACTGAGTGGCAGTCACTGGATGCTGTATCAC  
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 GCTATGGGCTACTGCCTTCTGTTTGGCCCTGCACTGTTGTTACTTTCTGGAGAACCCTGCTTCTGGCTG  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205420 representing NM\_152696  
 Red=Cloning site Green=Tags(s)

MASQLQVFSPPSVSSSAFCSAKKLIKIEPSGWDVSGQSSNDKYYTHSKTLPATQGGANSSHQVANFNIPAY  
 DQGLLLPAPAVEHIVVTAADSSGSAATSTFQSSQTLTHRSNVSLLEPYQKCKLKRKSEEVDSNGSVQIIE  
 EHPPLMLQNRVVGAAATTTTVTTKSSSSGEGDYQLVQHEILCSMTNSYEVLEFLGRGTFGQVAKCWR  
 STKEIVAIIKILKNHPSYARQQIEVSILSRLSSENADEYNFVRSYECFQHKNHNTCLVFEMLEQNL YDFLK  
 QNKFSPLPLKYIRPILQQVATALMKLKSLGLIHADLKPENIMLVDPVRQPYRVKVIDFGSASHVSKAVCS  
 TYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGT  
 KTTRFFNRDPNLGYPLWRLKTPEEHELETGIKSKEARKYIFNCLDDMAQVNMSTDLEGTDMMLAEKADRRE  
 YIDLKMLTIDADKRITPLKTLNHQFVTMTHLLDFPHSNHVKSCFQNMIEICKRRVHMYDVTVSQIKSPFT  
 THVAPNTSTNL TMSFSNQLNTVHNQASVLLASSSTAAAATLSLANSVSLLLNYQSALYPSSAAPVPGVAQQ  
 GVSLLQPGTTQICTQDTPFQQTFFIVCPPAFQTGLQATTKHSGFPVRMDNAVPIVPQAPAAQPLQIQSGVLT  
 QGSCTPLMVATLHPQVATITQQYAVPFTLSCAAGR PALVEQTA AVLQAWPGGTQQILLPSTWQQLPGVAL  
 HNSVQPTAMIEAMGSGQQLADWRNAHSHGNQYSTIMQQPSLLTNHVTLATAQPLNVGVAHVVRQQSSS  
 LPSKKNKQSAPVSSKSSLDVLP SQVYSLVGS SPLRTTSSYNSLVPVQDQHQP IIPDTPSPVSVITIRS  
 DTDEEEDNKYKPSSSGLKPRSNVISYVTVNDSPDSSSLSPYSTDTLSALRGNSGVLEGPGRVVADGT  
 GTRTIIIVPPLKTQLGDCTVATQASGLLSNKT KPVASVSGQSSGCCITPTGYRAQRGGT SAAQPLNLSQVS  
 AMGYCLLFGPCTVVFWRLLLAGC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

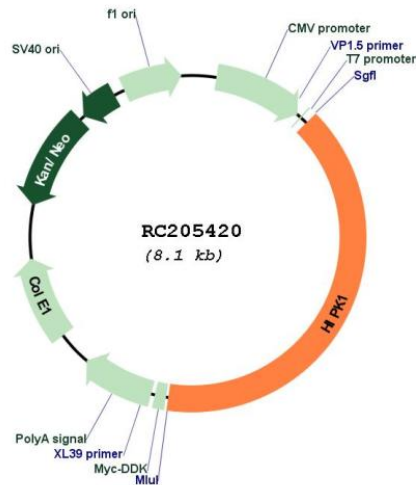
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_152696

ORF Size: 3225 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_152696.2</a>
<b>RefSeq Size:</b>	3438 bp
<b>RefSeq ORF:</b>	3228 bp
<b>Locus ID:</b>	204851
<b>UniProt ID:</b>	<a href="#">Q86Z02</a>
<b>Cytogenetics:</b>	1p13.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transcription Factors
<b>MW:</b>	116.6 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the Ser/Thr family of protein kinases and HIPK subfamily. It phosphorylates homeodomain transcription factors and may also function as a co-repressor for homeodomain transcription factors. Alternative splicing results in four transcript variants encoding four distinct isoforms. [provided by RefSeq, Jul 2008]