

## Product datasheet for **SC110810**

### **HIPK1 (NM\_198269) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HIPK1 (NM_198269) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIPK1
Synonyms:	Myak; Nbak2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC110810 sequence for NM\_198269 edited (data generated by NextGen Sequencing)

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ATGTGGTCACTGGGCTGTGTGATAGCTGAGCTGTTCTGGGATGGCCTCTTTATCCTGGT
GCTTCAGAATATGATCAGATTCGTTATATTTTACAAACACAAGGCTTGCCAGCTGAATAT
CTTCTCAGTGCCGGAACAAAAACAACCAGGTTTTTCAACAGAGATCCTAATTTGGGGTAC
CCACTGTGGAGGCTTAAGACACCTGAAGAACATGAACTGGAGACTGGAATAAAATCAAAA
GAAGCTCGGAAGTACATTTTTAATTGCTTAGATGACATGGCTCAGGTGAATATGCTTACA
GACCTGGAGGGAACAGACATGTTGGCAGAGAAGGCAGACCGAAGAGAATACATTGATCTG
TTAAAGAAAATGCTCACAAATTGATGCAGATAAGAGAATTACCCCTCTAAAACTCTTAAC
CATCAGTTTGTGACAATGACTCACCTTTTGGATTTTCCACATAGCAATCATGTTAAGTCT
TGTTTTCAGAACATGGAGATCTGCAAGCGGAGGGTTCACATGTATGATACAGTGAGTCAG
ATCAAGAGTCCCTTCACTACACATGTTGCCCAAATAACAAGCACAATCTAACCATGAGC
TTCAGCAATCAGCTCAATACAGTGCACAATCAGGCCAGTGTCTAGCTTCCAGTTCTACT
GCAGCAGCTGCTACTCTTCTCTGGCTAATTCAGATGTCTCACTACTAACTACCAGTCA
GCTTTGTACCCATCATCTGCTGCACCAGTTCCTGGAGTTGCCAGCAGGGTGTTCCTTG
CAGCCTGGAACCCAGATTTGCACTCAGACAGATCCATTCCAACAGACATTTATAGTA
TGTCACCTGCGTTTCAAAGTGGACTACAAGCAACAACAAGCATTCTGGATTCCCTGTG
AGGATGGATAATGCTGTACCGATTGTACCCAGGCACCAGCTGCTCAGCCACTACAGATT
CAGTCAGGAGTTCACGCAGGGAAGCTGTACACCACTAATGGTAGCAACTCTCCACCCT
CAAGTAGCCACCATCACACCGCAGTATGCGGTGCCCTTACTCTGAGCTGCGCAGCCGGC
CGGCCGGCGTGGTTGAACAGACTGCCGCTGTACTGCAGGCGTGGCTGGAGGGACTCAG
CAAATTCCTGCCTTCAACTTGGCAACAGTTGCCTGGGTAGCTCTACACAACCTGTGC
CAGCCCACAGCAATGATTCAGAGGCCATGGGGAGTGGACAGCAGCTAGCTGACTGGAGG
AATGCCACTCTCATGGCAACCAGTACAGCACTATCATGCAGCAGCCATCCTTGTGACT
AACCATGTGACATTGGCCACTGCTCAGCCTCTGAATGTTGGTGTGCCATGTTGCAGA
CAACAACAATCCAGTTCCTCCCTTCGAAGAAGAATAAGCAGTCAGCTCCAGTCTCTTCC
AAGTCTCTCTAGATGTTCTGCCTTCCCAAGTCTATTCTCTGGTGGGAGCAGTCCCTC
CGCACCACATCTTATAATTCCTTGGTCCCTGTCCAAGATCAGCATCAGCCCATCATC
ATTCCAGATACTCCAGCCCTCCTGTGAGTGTCACTATCCGAAGTGACTGATGAG
GAAGAGGACAACAATAACAAGCCAGTAGCTCTGGACTGAAGCCAAGGTCTAATGTCATC
AGTTATGCTCACTGTCAATGATTCTCCAGACTCTGACTCTTCTTTGAGCAGCCCTATTCC
ACTGATACCTGAGTGTCTCCGAGGCAATAGTGGATCCGTTTTGGAGGGCCTGGCAGA
GTTGTGGCAGATGGCACTGGCACCCGCACTATCATTGTGCCTCCACTGAAAACCTAGCTT
GGTGACTGCACTGTAGCAACCCAGGCCTCAGGTCTCCTGAGCAATAAGACTAAGCCAGTC
GCTTCAGTGAGTGGGAGTCACTGGATGCTGTATCACCCACAGGGTATCGAGCTCAA
CGCGGGGGGACCAGTGCAGCACAACCACTCAATCTTAGCCAGAACCAGCAGTCATCGGCG
GCTCCAACCTCACAGGAGAGAAGCAGCAACCCAGCCCCCGCAGGCAGCAGGCRITTTGTG
GCCCTCTCTCCAAGCCCCCTACACCTTCCAGCATGGCAGCCCGCTACACTCGACAGGG
CACCCACACCTTGCCCCGGCCCCCTGCTCACCTGCCAAGCCAGGCTCATCTGTATACGTAT
GCTGCCCCGACTTCTGCTGCTGCACTGGGCTCAACCAGTCCATTGCTCATCTTTTCTCC
CCACAGGGTTCCTCAAGGCATGCTGCAGCCTATACCACTACCCTAGCACTTTGGTGCAC
CAGGTCCCTGTCAGTGTTGGGCCAGCCTCCTCACTTCTGCCAGCGTGGCCCTGCTCAG
TACCAACACCAGTTTGCCACCCAATCCTACATTGGGTCTTCCGAGGCTCAACAATTTAC
ACTGGATACCCGCTGAGTCTACCAAGATCAGCCAGTATTCTACTTATAG

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Clone variation with respect to NM\_198269.2  
2094 g=>r

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_198269 unedited GGCCGCGAAATTCGCACGAGGTAAGAANACACCTGCCTTGTTTTGAAAGTTGGAGCAGA ACTTATATGATTTTCTAAAGCAAACAAATTTAGCCCACTGCCACTCAAGTACATCAGAC CAATCTTGCAGCAGGTGGCCACAGCCTTGATGAAGCTCAAGAGTCTTGGTCTGATCCACG CTGACCTTAAGCCTGAAAACATCATGCTGGTTGATCCAGTTCGCCAGCCCTACCGAGTGA AGGTCATTGACTTTGGTTCTGCTAGTCACGTTTCCAAAGCTGTGTGCTCAACCTACTTAC AGTCACGTTACTACAGAGCTCCTGAAATTATTCTTGGGTTACCATTTTGTGAAGCTATTG ATATGTGGTCACTGGGCTGTGTGATAGCTGAGCTGTTCCCTGGGATGGCCTCTTTATCCTG GTGCTTCAGAATATGATCAGATTGTTATATTTACAAACACAAGGCTTGCCAGCTGAAT ATCTTCTCAGTGCCGGAACAAAAACAACCAGGTTTTTCAACAGAGATCCTAATTTGGGGT ACCCACTGTGGAGGCTTAAGACACCTGAAGAACATGAACTGGAGACTGGAATAAAATCAA AAGAAGCTCGGAAGTACATTTTTAATTGCTTAGATGACATGGCTCAGGTGAATATGTCTA CAGACCTGGAGGGAACAGACATGTTGGCAGAGAAGGCAGACCGAAGAGATACATTGGATC TGTTAAAGAAAATGCTCACAATTGATGCAGAAAAGAGAATNACCCTCTAAAACTCTACCA TCAGTTGTGACATGACTCACTTTTGGATTTTCACTACATATGGTAAGTCTGGTTCAACTG GGAATCTGAGCGGAGTTACAGATGATCAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_198269
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<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_198269.1</a> , <a href="#">NP_938010.1</a>
<b>RefSeq Size:</b>	6993 bp
<b>RefSeq ORF:</b>	2511 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

**Gene Summary:**

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]

Transcript Variant: This variant (3) differs in the 5' UTR and lacks one 5' coding exon, compared to variant 1. These differences result in the use of a downstream translation initiation site and a protein (isoform 3) with a shorter N-terminus, compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.