

## Product datasheet for **SC323367**

### **HIPK4 (NM\_144685) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HIPK4 (NM_144685) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIPK4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC323367 sequence for NM\_144685 edited (data generated by NextGen Sequencing)

```

ATGTCCACCATCCAGTCGGAGACTGACTGCTACGACATCATCGAGGTCTTGGGCAAGGGG
ACCTTCGGGGAGGTAGCCAAGGGCTGGCGGGGAGCAGCGGGCAGATGGTGGCCATCATG
ATCCTCAAGAATGACGCCTACCGCAACCGCATCATCAAAAACGAGCTGAAGCTGCTGCAC
TGCATCGGAGGCCTAGACCCTGAAGAGGCCACGTCATCCGCTTCCTTGAGTTCTCCAT
GACGCCCTCAAGTTCTACCTGGTCTTTGAGCTGCTGGAGCAAAAACCTTTTCGAGTCCAG
AAGGAGAACAACCTTCGCGCCCCTCCCGCCGCCACATCCGTACAGTACCCTGCAGGTG
CTCACAGCCCTGGCCCGCTCAAGGAGCTGGCTATCATCCACGCTGATCTCAAGCCTGAG
AACATCATGCTGGTGGACCAGACCCGCTGCCCTTCAGGGTCAAGGTGATTGACTTCGGA
TCCGCCAGCATTTTCAGCGAGGTGCGCTACGTGAAGGAGCCATACATCCAGTCGCGCTTC
TACCGGGCCCTGAGATCCTGCTGGGGCTGCCCTTCTGCGAGAAGGTGGACGTGTGGTCC
CTGGGCTGCGTATGGCTGAGCTGCACCTGGGCTGGCCTCTCTACCCCGCAACAACGAG
TACGACCAGGTGCGCTACATCTGCGAAACCCAGGGCTGCCAAGCCACACCTGTTGCAC
GCCGCTGCAAGGCCACCACTTCTTCAAGCGCAACCCACCCGACGCTGCCAACCC
TGGCAGCTCAAGTCTCGGCTGACTACCTGGCCGAGACGAAGGTGCGCCATTGGAGCGC
CGCAAGTATATGCTCAAGTCGTTGGACCAGATTGAGACAGTGAATGGTGGCAGTGTGGCC
AGTCGGCTAACCTTCCCTGACCGGGAGGCGCTGGCGGAGCACGCCGACCTCAAGAGCATG
GTGGAGCTGATCAAGCGCATGCTGACCTGGGAGTACACGAAACGCATCAGCCCCAGTGTCT
GCCCTGCGCCACCCCTTCGTGTCCATGCAGCAGCTGCGCAGTGCCACGAGACCACCCAC
TACTACCAGCTCTCGTGCAGCTACCGCCTCTCGTGAAGTGGAGGGGAAGCCCCC
ACGCCCCGTGCGCCGAGAAGATGGGACCCCTACTACTGTCTGGCTGAGGAGAAGGAG
GCTGCGGTATGGGCAGTGTGGCCGGCAGCAGCCCTTCTTCCGAGAGGAGAAGGCACCA
GGTATGCAAAGAGCCATCGACCAGCTGGATGACCTGAGTCTGCAGGAGGCTGGGCATGGG
CTGTGGGGTGAACCTGCACCAATGCGGTCTCCGACATGATGGTCCCCCTCAAGGAGCC
ATCACTGGCCACCATGTGCCGACTCGGGCCCTGAGCCATCCTGGCCTTCTACAGCAGC
CGCCTGGCAGGCCGCCACAAGGCCCGCAAGCCACCTGCGGGTTCCAAGTCCGACTCCAAC
TTCAGCAACCTCATTGCGCTGAGCCAGTCTCGCCTGAGGATGACAGGCCCTGCCGGGGC
AGCAGCTGGGAGGAAGGAGAGCATCTCGGGCCTCTGCTGAGCCACTGGCCATCCTGCAG
CGAGATGAGGATGGGCCAACATTGACAACATGACCATGGAAGCTGAGAGGCCAGACCCT
GAGCTCTTCGACCCAGCAGCTGCTCTGGAGAATGGCTGAGTGAAGCCAGCTGCACCCCTG
GAGAGCGTCAGGGGCCACGGGCTCAGGGGCTCCACCCCGCCGCTCCACCCAGCATGGT
CCACCCCGGGGGGCCACCAAGTCTCTCCAGCATGTACCCGGGCACCACTGA
    
```

Clone variation with respect to NM\_144685.3  
119 a=>t

**5' Read Nucleotide Sequence:**

```

>OriGene 5' read for mutant NM_144685 unedited
CCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTT
AGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGATAAATTCGTATAGCATA
CATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGAGCC
ACTCAACAGCGCTGGAACCCATTCGGTGGGGCTGGGGCCCTCATCCAAGCCAGGAGGGTTTCT
GGGGAGGGGTGCAGCCCCCTGGCAGACTGACAGTGTGGGCTGGGGGTTTTGGGGTGCCAGGAA
ACAGGGCCAAACCCCTGGGGGGGTGGGTTAAGTGCGGTTTTCTTTCCCACTGGGGGCCCTCC
GTATTTCCCATAGGGGGGGGGGGGGGGGGGGGAGAACACCCCAAGGAAAGCCGGTGTTCGAA
AAGTGAAGGGGGGAATTCAGGAACAGGGGGGAGGAAACCCCAAGAAACAAGCAGAAAGGGCG
GGGGACAT
    
```

<b>Kinase Domain Sequence:</b>	>SC323367 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSTTGMGCAATGGGCGGTAGGCKGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAAATACGACTCACTATAGGGCGGCCGATAACTTCGTATAGCATACATTATACGAAGTTATG GATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGAGCCACTCAACAGCGCTGGAACCCATT CGGTGGGGCCTGGGGCCCTCATCCCAAGCCAGGAGGGTTTCTGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_144685
<b>Insert Size:</b>	2472 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>OTI Annotation:</b>	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." <a href="#">Cell, 2008 May p536-548.</a>
<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_144685.3</a> , <a href="#">NP_653286.2</a>
<b>RefSeq Size:</b>	2467 bp
<b>RefSeq ORF:</b>	1851 bp
<b>Locus ID:</b>	147746
<b>UniProt ID:</b>	<a href="#">Q8NE63</a>
<b>Cytogenetics:</b>	19q13.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Gene Summary:**

This gene encodes a member of the homeodomain interacting protein kinase (HIPK) family of proteins. While other members of this family are found throughout vertebrates, this member is present only in mammals. Compared to other members of this family, the encoded protein lacks a nuclear localization signal and a C-terminal autoinhibitory domain. The encoded protein exhibits kinase activity and may phosphorylate the tumor suppressor protein p53. [provided by RefSeq, Jul 2016]