

Product datasheet for **RG205420**

HIPK1 (NM_152696) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK1 (NM_152696) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIPK1
Synonyms:	Myak; Nbak2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205420 representing NM_152696 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCATCACAGCTGCAAGTGTTTTCGCCCCATCAGTGTGTCGAGTGCCTTCTGCAGTGCGAAGAAAC
TGAAAATAGACCCTCTGGCTGGGATGTTTCAGGACAGAGTAGCAACGACAAATATTATACCCACAGCAA
AACCTCCAGCCACACAAGGGCAAGCCAACCTCTCACCAGGTAGCAAATTTCAACATCCCTGCTTAC
GACCAGGGCCTCCTCCTCCAGCTCCTGCAGTGGAGCATATTGTTGTAACAGCCGCTGATAGCTCGGGCA
GTGCTGTACATCAACCTTCAAAGCAGCCAGACCCTGACTCACAGAAGCAACGTTTCTTTGCTTGAGCC
ATATCAAAAATGTGGATTGAAACGAAAAAGTGAGGAAGTTGACAGCAACGGTAGTGTGCAGATCATAGAA
GAACATCCCCCTCTCATGCTGCAAAACAGGACTGTGGTGGGTGCTGCTGCCACAACCACCACTGTGACCA
CAAAGAGTAGCAGTTCAGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCTTTGTCTATGAC
CAATAGCTATGAAGTCTTGGAGTTCCTAGGCCGGGGGACATTTGGACAGGTGGCTAAGTGTGGAAGAGG
AGCACCAAGGAAATGTGGCTATTAATCTTGAAGAACCACCCCTCCTATGCCAGACAAGGACAGATTG
AAGTGAGCATCCTTTCCCGCCTAAGCAGTGAATGCTGATGAGTATAATTTGTCGGTTCATACGAGTG
CTTTCAGCATAAGAATCACACCTGCCTGTTTTGAAATGTTGGAGCAGAAGTTATGATTTTCTAAAG
CAAAACAATTTAGCCCCTGCCCCTCAAGTACATCAGACCAATCTTGCAGCAGGTGGCCACAGCCTTGA
TGAAGCTCAAGAGTCTTGGTCTGATCCACGCTGACCTTAAGCCTGAAAACATCATGCTGGTTGATCCAGT
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ACCTACTTACAGTACGTTACTACAGAGCTCCTGAAATATTCTTGGGTTACCATTTTGTGAAGCTATTG
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TACATTGATCTGTAAAGAAAATGCTCACAATTGATGCAGATAAGAGAATTACCCCTCTAAAACTCTTA
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 GCTATGGCTACTGCCTTCTGTTTGGCCCTGCACTGTTGTTACTTTCTGGAGAACCCTGCTTCTGGCTG
 GATGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205420 representing NM_152696
 Red=Cloning site Green=Tags(s)

MASQLQVFSPPSVSSSAFCSAKKLIKIEPSGWDVSGQSSNDKYTHSKTLPATQGGQANSSHQVANFNIPAY
 DQGLLLPAPAVEHIVVTAADSSGSAATSTFQSSQTLTHRSNVSLLEPYQKCKLKRKSEEVDSSNGSVQIIE
 EHPPLMLQNRVTVGAAATTTTVTTKSSSSSGEGDYQLVQHEILCSMTNSYEVLEFLGRGTFGQVAKCWKR
 STKEIVAIIKILKNHPSYARQQIEVSILSRLSSENADEYNFVRSYECFQHKNHNTCLVFEMLEQNL YDFLK
 QNKFSPLPLKYIRPILQQVATALMKLKSLGLIHADLKPENIMLVDPVRQPYRVKVIDFGSASHVSKAVCS
 TYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGT
 KTRTRFNRPNLGYPLWRLKTPEEHELETGIKSKEARKYIFNCLDDMAQVNMSTDLEGTDMMLAEKADRRE
 YIDLKMLTIDADKRITPLKTLNHQFVTMTHLLDFPHSNHVKSCFQNMIEICKRRVHMYDVTVSQIKSPFT
 THVAPNTSTNL TMSFSNQLNTVHNQASVLAASSSTAAAATLSLANSVDVSLNLYQSALYPSAAPVPGVAQQ
 GVSLLQPGTTQICTQTDPFQQTFCVPPAFQTGLQATTKHSGFPVRMDNAVPIVPQAPAAQPLQIQSGVLT
 QGSCTPLMVATLHPQVATITQYAVPFTLSCAAGRPALVEQTAAVLQAWPGGTQQILLPSTWQQLPGVAL
 HNSVQPTAMIPAMGSGQQLADWRNAHSHGNQYSTIMQQPSLLTNHVTLATAQPLNVGVAHVVRQQSSS
 LPSKKNKQSAPVSSKSSLDVLPQVYSLVGSPLRTTSSYNSLVPVQDQHQP I IIPDTPSPVSVITIRS
 DTDEEEDNKYKPSSSGLKPRSNVISYVTVNDSPDSSSLSPYSTDTLSALRGNSGVLGPGGRVADGT
 GTRTIIIVPPLKTQLGDCTVATQASGLLSNKTTPVASVSGQSSGCCITPTGYRAQRGGTSAQPLNL SQVS
 AMGYCLLFGPCTVVFWRLLLLAGC

TRTRPLE – GFP Tag – V

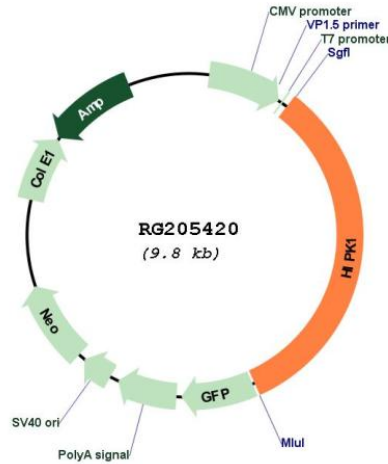
Restriction Sites:

Sgfl-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.

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:	<u>NM_152696.2</u>
RefSeq Size:	3438 bp
RefSeq ORF:	3228 bp
Locus ID:	204851
UniProt ID:	<u>Q86Z02</u>
Cytogenetics:	1p13.2
Protein Families:	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]