

Product datasheet for **RG216108**

HIPK1 (NM_198268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK1 (NM_198268) 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:	>RG216108 representing NM_198268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCACAGCTGCAAGTGTTTTGCCCCCATCAGTGTGTCGAGTGCCTTCTGCAGTGCGAAGAAAC
TGAAAATAGAGCCCTCTGGCTGGGATGTTTCAGGACAGAGTAGCAACGACAAATATTATACCCACAGCAA
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GACCAGGGCCTCCTCCTCCAGCTCCTGCAGTGGAGCATATTGTTGTAACAGCCGCTGATAGCTCGGGCA
GTGCTGCTACATCAACCTTCCAAAGCAGCCAGACCCTGACTCACAGAAGCAACGTTTCTTTGCTTGAGCC
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CAAAGAGTAGCAGTTCACGCGGAGAAGGGGATTACCAGCTGGTCCAGCATGAGATCCCTTTGCTCTATGAC
CAATAGCTATGAAGTCTTGGAGTTCTAGGCCGGGGGACATTTGGACAGGTGGCTAAGTGTGGAAGAGG
AGCACCAAGGAAATGTGGCTATTAATCTTGAAGAACCACCCCTCCTATGCCAGACAAGGACAGATTG
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ACCTACTTACAGTACGTTACTACAGAGCTCCTGAAATATTCTTGGGTTACCATTTTGTGAAGCTATTG
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TACATTGATCTGTAAAGAAAATGCTCACAATTGATGCAGATAAGAGAATTACCCCTCTAAAACTCTTA
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TCAACAATTTACTGATACCCGCTGAGTCTACCAAGATCAGCCAGTATTCTACTTA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216108 representing NM_198268
 Red=Cloning site Green=Tags(s)

MASQLQVFPSPSVSSSAFCSAKKLIKIEPSGWDVSGQSSNDKYYTHSKTLPATQQQANSSHQVANFNIPAY
 DQGLLLPAPAVEHIVVTAADSSGSAATSTFQSSQTLTHRSNVSLLEPYQKCGLKRKSEEVDNNGSVQIEE
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 STKEIVAIIKILKNHPSYARQGQIEVSIILSRLSENADENYFVRSYECFQHKHNTCLVFEMLEQNL YDFLK
 QNKF SPLPLKYIRPILQQVATALMKL KSLGLIHADLKPENIMLVDPVRQPYRVKVIDFGSASHVSKAVCS
 TYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGT
 KTTRFFNRDNLGYPLWRLKTPEEHELETGIKSKEARKYIFNCLDDMAQVNMSTDLEGTDLAEKADRRE
 YIDLLKMLTIDADKRITPLKTLNHQFVTMTHLLDFPHSNHVKSCFQNMIECKRRVHMYDVTVSQIKSPFT
 THVAPNTSTNL TMSFSNQLNTVHNQASVLASSSTAAAATLSLANSVSL LNYQSALYPSSAAPVPGVAQQ
 GVSLQPGTTQICTQDTPFQQT FIVCPPAFQTLQATTKHSGFPVRMDNAVPIVQAPAAQPLQIQSGVLT
 QGSCTPLMVATLHPQVATITPQYAVPFTLSAAGR PALVEQTA AVLQAWPGGTQQILLPSTWQQLPGVAL
 HNSVQPTAMIPEAMGSGQQLADWRNAHSHGNQYSTIMQQPSLLTNHVTLATAQPLNVGVAVHVRQQSSS
 LPSKKNKQSAPVSSKSSLDVLP SQVYSLVGSSPLRTTSSYNSLV PVQDQHQP IIPDTPSPPVSVITIRS
 DTDEEEDNKYKPSSSGLKPRSNVISYVTVNDSPDSDSSLSSPYSTDTLSALRGNSSGVLEGPGRVVADGT
 GTRTII VPLKTLQGDCTVATQASGLLSNKTKPVASVSGQSSGCCITPTGYRAQRGGTSAQPLNLSQNQ
 QSSAAPT SQERSSNPAPRRQAFVAPLSQAPYTFQHGSPLHSTGPHLAPAPAHLPSQAHLTYAAPTSA
 AALGSTSSIAHLFSPQSSRHAAYTTHPSTLVHQVPVSVGPSLLTSASVAPAQYQHAFATQSYIGSSRG
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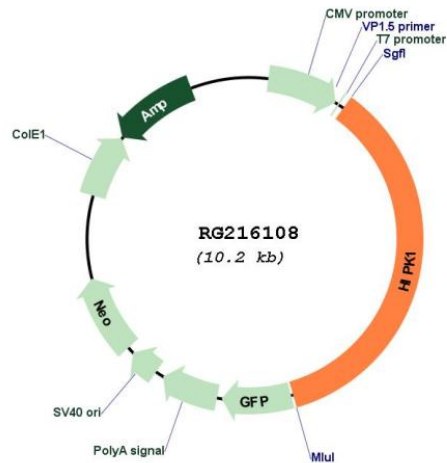
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_198268

ORF Size: 3630 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_198268.3](#)

RefSeq Size: 8155 bp

RefSeq ORF: 3633 bp

Locus ID: 204851

UniProt ID: [Q86Z02](#)

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]