

Product datasheet for **RG220278**

HIPK2 (NM_022740) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK2 (NM_022740) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIPK2
Synonyms:	PRO0593
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220278 representing NM_022740 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGTGTACGAAGGTATGGCCTCACATGTGCAAGTTTTCTCCCCTCACACCCTCAATCAAGTG
CCTTCTGTAGTGTGAAGAACTGAAAATAGAGCCGAGTCCAACCTGGGACATGACTGGGTACGGCTCCCA
CAGCAAAGTGTATAGCCAGAGCAAGAACATCCCCTGTGCGAGCCAGCCACCACAACCGTCAGCACCTCC
TTGCCGGTCCCAAACCAAGCCTACCTACGAGCAGACCATCGTCTTCCAGGAAGCACCGGGCACATCG
TGGTCACCTCAGCAAGCAGCACTTCTGTACCCGGCAAGTCTCGCGGACCACACAACCTAATGCGTGC
AAGCACTGTGAGCCTCCTTGATACCTACCAAAAATGTGGACTCAAGCGTAAGAGCGAGGAGATCGAGAAC
ACAAGCAGCGTGCAGATCATCGAGGAGCATCCACCATGATTCAGAATAATGCAAGCGGGGCCACTGTCC
CCTGCCACCACGTCTACTGCCACCTCCAAAAACAGCGGCTCCAACAGCGAGGGCGACTATCAGCTGGT
GCAGCATGAGGTGCTGTGCTCCATGACCAACACCTACGAGGTCTTAGAGTTCTTGGGCCGAGGGACGTTT
GGCAAGTGGTCAAGTGTGAAACGGGGACCAATGAGATCGTAGCCATCAAGATCCTGAAGAACCACC
CATCCTATGCCCGACAAGGTGAGATTGAAGTGAGCATCCTGGCCCGTTGAGCACGGAGAGTGCCGATGA
CTATAACTTCGTCGGGCTACGAATGCTTCCAGCACAAGAACCACACGTGCTTGGTCTTCGAGATGTTG
GAGCAGAACCTCTATGACTTTCTGAAGCAAACAAGTTTAGCCCTTGCCCTCAAAATACATTCGCCCAAG
TTCTCCAGCAGGTAGCCACAGCCCTGATGAAACTCAAAAGCCTAGGTCTTATCCACGCTGACCTCAAACC
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AGCCACGTGTCCAAGGCTGTGTGCTCCACCTACTTGCAAGTCCAGATATTACAGGGCCCTGAGATCATCC
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TTGGTAGAAAAGGCTGACCGGCGGGAGTTCATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACA
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TGCCACCAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTAACTGGATACCCACTGAGCCCCGCC
AAGGTCAACCAGTACCCTTACATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220278 representing NM_022740
 Red=Cloning site Green=Tags(s)

MAPVYEGMASHVQVFSPTLQSSAFCSVKLKIIEPSSNWDMTGYGSHSKVYSQSKNIPLSQPATTTVSTS
 LPVNPNSLPYEQTIVFPGSTGHI VVTSASSTSVTGQVLGGPHNLMRRSTVSLLDTYQKCGLKRKSEEIEN
 TSSVQIIEEHPPMIQNNASGATVATATTSTATSKNSGNSSEGDYQLVQHEVLCMSMTNTYEVLEFLGRGTF
 GQVVKCKWRGTNEIVA I K I L K N H P S Y A R Q G Q I E V S I L A R L S T E S A D D Y N F V R A Y E C F Q H K N H T C L V F E M L
 EQNL Y D F L K Q N K F S P L P L K Y I R P V L Q Q V A T A L M K L S L G L I H A D L K P E N I M L V D P S R Q P Y R V K V I D F G S A
 S H V S K A V C S T Y L Q S R Y R A P E I I L G L P F C E A I D M W S L G C V I A E L F L G W P L Y P G A S E Y D Q I R Y I S Q T Q G L P
 A E Y L L S A G T K T T R F F N R D T D S P Y P L W R L K T P D D H E A E T G I K S K E A R K Y I F N C L D D M A Q V N M T T D L E G S D M
 L V E K A D R R E F I D L L K K M L T I D A D K R I T P I E T L N H P F V T M H L L D F P H S T H V K S C F Q N M E I C K R R V N M Y D T
 V N Q S K T P F I T H V A P S T S T N L T M T F N N Q L T T V H N Q A P S S T S A T I S L A N P E V S I L N Y P S T L Y Q P S A A S M A A V
 A Q R S M P L Q T G T A Q I C A R P D P F Q Q A L I V C P P G F Q G L Q A S P S K H A G Y S V R M E N A V P I V T Q A P G A Q P L Q I Q P G
 L L A Q Q A W P S G T Q Q I L L P P A W Q Q L T G V A T H T S V Q H A T V I P E T M A G T Q Q L A D W R N T H A H G S H Y N P I M Q Q P A L
 L T G H V T L P A A Q P L N V G V A H V M R Q Q P T S T T S R K S K Q H Q S S V R N V S T C E V S S S Q A I S S P Q R S K R V K E N T P P
 R C A M V H S S P A C S T S V T C G W G D V A S T T R E R Q R Q T I V I P D T P S P T V S V I T I S S D T D E E E E Q H A P T S T V S K
 Q R K N V I S C V T V H D S P Y S D S S N T S P Y S V Q R A G H N N A N A F D T K G S L E N H C T G N P R T I I V P P L K T Q A S E V L
 V E C D S L V P V N T S H H S S Y K S K S S N V T S T S G H S S G S S S G A I T Y R Q R P G P H F Q Q Q P L N L S Q A Q Q H I T T D
 R T G S H R R Q A Y I P T M A Q A P Y S F P H N S P S H G T V H P H L A A A A A A H L P T Q P H L Y T Y T A P A A L G S T G T V A H L
 V A S Q G S A R H T V Q H T A Y P A S I V H Q V P V S M G P R V L P S P T I H P S Q Y P A Q F A H Q T Y I S A S P A S T V Y T G Y P L S P A
 K V N Q Y P Y I

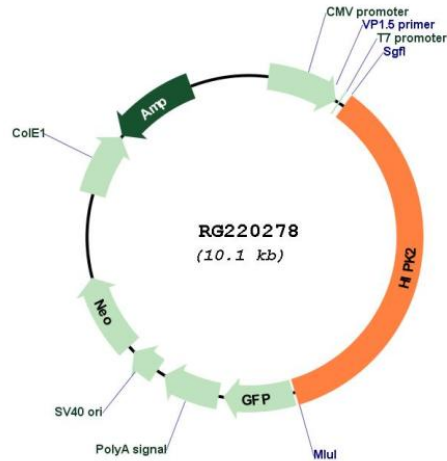
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_022740

ORF Size: 3594 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_022740.3](#), [NP_073577.3](#)

RefSeq Size: 15148 bp

RefSeq ORF: 3597 bp

Locus ID: 28996

UniProt ID: [Q9H2X6](#)

Cytogenetics: 7q34

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Gene Summary: This gene encodes a conserved serine/threonine kinase that is a member of the homeodomain-interacting protein kinase family. The encoded protein interacts with homeodomain transcription factors and many other transcription factors such as p53, and can function as both a corepressor and a coactivator depending on the transcription factor and its subcellular localization. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]