

Product datasheet for **RC220278**

HIPK2 (NM_022740) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	HIPK2
Synonyms:	PRO0593
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220278 representing NM_022740. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGGCCCCCGTGTACGAAGGTATGGCCTCACATGTGCAAGTTTTCTCCCCTCACACCCCTTCAATCAAGT
GCCTTCTGTAGTGTGAAGAACTGAAATAGAGCCGAGTTCCAAGTGGGACATGACTGGGTACGGCTCC
CACAGCAAAGTGTATAGCCAGAGCAAGAATCCCCCTGTGCGAGCCAGCCACCACAACCGTCAGCACC
TCCTTGCCGGTCCCAACCCAAGCCTACCTACGAGCAGACCATCGTCTTCCAGGAAGCACCGGGCAC
ATCGTGGTCACCTCAGCAAGCAGCACTTCTGTACCGGGCAAGTCCTCGGCGGACCACACAACCTAATG
CGTCGAAGCACTGTGAGCCTCCTTGATACCTACCAAAAATGTGGACTCAAGCGTAAGAGCGAGGAGATC
GAGAACACAAGCAGCGTGCAGATCATCGAGGAGCATCCACCCATGATTGAGAATAATGCAAGCGGGGCC
ACTGTGCGCACTGCCACCACGTCTACTGCCACCTCCAAAAACAGCGGCTCCAACAGCGAGGGCGACTAT
CAGCTGGTGCAGCATGAGGTGCTGTGCTCCATGACCAACACCTACGAGGTCTTAGAGTTCTTGGGCCGA
GGGACGTTTGGGCAAGTGGTCAAGTGCTGGAAACGGGGCACCAATGAGATCGTAGCCATCAAGATCCTG
AAGAACCACCCATCCTATGCCCCACAAGGTCAGATTGAAGTGAGCATCCTGGCCCGGTTGAGCACGGAG
AGTGCCGATGACTATAACTTCGTCGGGCTACGAATGCTTCAGCACAAGAACCACACGTGCTTGGTC
TTCGAGATGTTGGAGCAGAACCTCTATGACTTTCTGAAGCAAAACAAGTTTAGCCCCCTTGCCCTCAAA
TACATTCGCCAGTTCTCCAGCAGGTAGCCACAGCCCTGATGAACTCAAAGCCTAGGTCTTATCCAC
GCTGACCTCAAACCAGAAACATCATGCTGGTGGATCCATCTAGACAACCATACAGAGTCAAGGTATC
GACTTTGGTTAGCCAGCCACGTCTCAAGGCTGTGTGCTCCACCTACTTGACAGTCCAGATATTACAGG
GCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTGTTATT
GCAGAATTGTTCTGGTTGGCCGTTATATCCAGGAGCTTCGGAGTATGATCAGATTGCGTATATTTCA
CAAACACAGGGTTTGCCTGCTGAATATTTAAGCGCCGGGACAAAGACAACCTAGGTTTTTCAACCGT
GACACGGACTCACCATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATT
AAGTCAAAAGAAGCAAGAAAGTACATTTTCAACTGTTTAGATGATATGGCCAGGTGAACATGACGACA
GATTTGGAAGGGAGCGACATGTTGGTAGAAAAGGCTGACCGCGGGAGTTCATTGACCTGTTGAAGAAG
ATTGTCACCATGATGCTGACAAGAGAATCACTCCAATCGAAACCTGAACCATCCCTTTGTCAACCATG
ACACACTTACTCGATTTTCCCCACAGCACACAGTCAAATCATGTTTCCAGAACATGGAGATCTGCAAG



[View online »](#)

CGTCGGGTGAATATGTATGACACGGTGAACCAGAGCAAAACCCCTTTCATCACGCACGTGGCCCCCAGC
 ACGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCACTGTCCACAACCAGGCTCCCTCCTCT
 ACCAGTGCCACTATTTCTTAGCCAATCCCGAAGTCTCCATACTAACTACCCATCTACACTCTACCAG
 CCCTCAGCGGCATCCATGGCTGCAGTGGCCAGCGGAGCATGCCCTGCAGACAGGAACAGCCCAGATT
 TGTGCCCGGCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCCAAGGCTTGCAGGCC
 TCTCCCTCTAAGCAGCTGGCTACTCGGTGCGAATGAAAAATGCAGTTCCCATCGTCACTCAAGCCCCA
 GGAGCTCAGCCTCTTTCAGATCCAACCAGGTCTGCTTGGCCAGCAGGCTTGGCCAAGTGGGACCCAGCAG
 ATCCTGCTTCCCCCAGCATGGCAGCAACTGACTGGAGTGGCCACCACACATCAGTGCAGCATGCCACC
 GTGATTCCCGAGACCATGGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGC
 CATTATAATCCCATCATGCAGCAGCCTGCACTATTGACCGGTGATGTGACCCCTTCCAGCAGCACAGCCC
 TTAATGTGGGTGTGGCCACGTGATGCGGCAGCAGCCAACCAGCACCACCTCCTCCCGAAGAGTAAG
 CAGCACCAGTCATCTGTGAGAAATGTCTCCACCTGTGAGGTGTCTCTCTCAGGCCATCAGTCCCCCA
 CAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCGCTGTGCCATGGTGCACAGTAGCCCGGCTGC
 AGCACCTCGGTACCTGTGGGTGGGGCAGCTGGCCTCCAGCACCACCCGGAACGGCAGCGGCAGACA
 ATTGTCTTCCCGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCAGTGACACGGACGAGGAG
 GAGGAACAGAAACACGCCCCACCAGCACTGTCTCCAAGCAAAGAAAAACGTCATCAGCTGTGTACA
 GTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCCTACTCCGTGCAGCAGCGTGTGGG
 CACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCCGAACC
 ATCATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGCCAGTC
 AACACCAGTCACCACTCGTCCTCTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTAC
 TCTTCAGGGAGCTCATCTGGAGCCATCACCTACCGGCAGCAGCGGCCGGGCCCCCACTTCCAGCAGCAG
 CAGCCACTCAATCTCAGCCAGGCTCAGCAGCACATCACCACGGACCGCACTGGGAGCCACCGAAGGCAG
 CAGGCCTACATCACTCCACCATGGCCCAGGCTCCGTAATCTTCCCGCACAACAGCCCCAGCCACGGC
 ACTGTGCACCCGATCTGGCTGCAGCCGCTGCCGCTGCCACCTCCCCACCCAGCCCCACCTCTACACC
 TAACTGCGCGCGCGGCCCTGGGCTCCACCGGCACCGTGGCCACCTGGTGGCCTCGCAAGGCTCTGCG
 CGCCACACCGTGCAGCAGCTGCTACCCAGCCAGCATCGTCCACCAGGTCCCCGTGAGCATGGGCCCC
 CGGGTCTGCCCTCGCCACCATCCACCCGAGTCAGTATCCAGCCCAATTTGCCACCCAGACCTACATC
 AGCGCCTCGCCAGCCTCCACCGTCTAACTGGATACCACTGAGCCCCGCCAAGGTCAACCAGTACCT
 TACATA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Protein Sequence: >Peptide sequence encoded by RC220278
Blue=ORF Red=Cloning site Green=Tag(s)

MAPVYEGMASHVQVFSPTLQSSAFCSVKLLKIEPSSNWMDTGYGSHSKVYSQSKNIPLSQATTVTVS
SLPVPNPSPYPYQTI VFGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTVSLLDTYQKCGLKRKSEEI
ENTSSVQIEEHPPMIQNNASGATVATATTSTATSKNSGNSSEGDYQLVQHEVLCSMNTNTYEVLEFLGR
GTFGQVVKCWRKGTNEIVAIIKLKNHPSYARQGQIEVSILARLSTESADDYNFVRAYECFQHKHNTCLV
FEMLEQNL YDFLQKNKFSPLPLKYIRPVLQQVATALMKLKSGLIHADLKPENIMLVDSRQPYRVKVI
DFGSASHVSKAVCSTYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYIS
QTQGLPAEYLLSAGTKTTRFFNRDTSPLYLWRLKTPDDHEAETGIKSKEARKYIFNCLDDMAQVNMNT
DLEGSMDLVEKADRRFIDLLKKMLTIDADKRITPIETLNHPFVTMTHTLLDFPHSTHVKSCFQNMETCK
RRVNMYPDVTNQSKTPFIITHVAPSTSTNLMTMFNNQLTTVHNQAPSSTSATISLANPEVSIILNYPSTLYQ
PSAASMAAVAQRSMPLQTGTAQICARPDPFQQALIVCPPGFQGLQASPSKHAGYSVRMENAVPIVTQAP
GAQPLQIQPGLLAQQAWPSGTQOILLPPAWQQLTGVAHTTSVQHATVIPETMAGTQQLADWRNTHAHGS
HYNPIMQQPALLTGHVTLPAAQPLNVGVAHVMRQQPTSTTSSRSKQHQHSSVRNVSTCEVSSSQAISSP
QRSKRVKENTPPRCAMVHSSPACSTSVTCGWGDVASSTTRERQRQTIVIPDTPSPTVSVITISSDDEE
EEQKHAPTSTVSKQRKNVISCVTVHDSPPYSDSSSNTSPYSVQQRAGHNNANAFDTKGSLENHCTGNPRT
IIVPPLKTQASEVLVECDLVPVNTSHHSSSYKSKSSSNVTSTSGHSSGSSSGAITRQQRPGPHFQQQ
QPLNLSQAQHITTDRTGSHRRQARHITPTMAQAPYSFPHNSPSHGTVHPHLAAAAAAHLPTQPHLYT
YTAPAAALGSTGTVAHLVASQSGARHYTVQHTAYPASIVHQVPVSMGPRVLPSTIHPSQYPAQFAHQTYI
SASPASTVYTYGPLSPAKVNOQYPYI

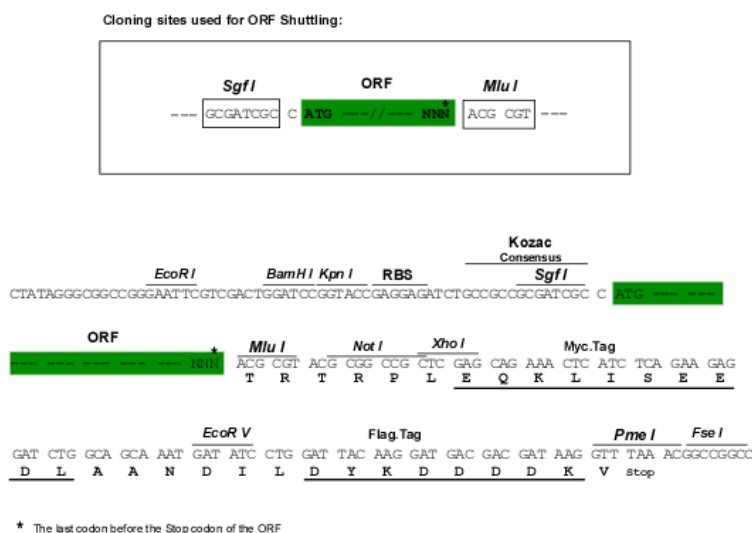
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC220278 also available, [TP320278](#)

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_h01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

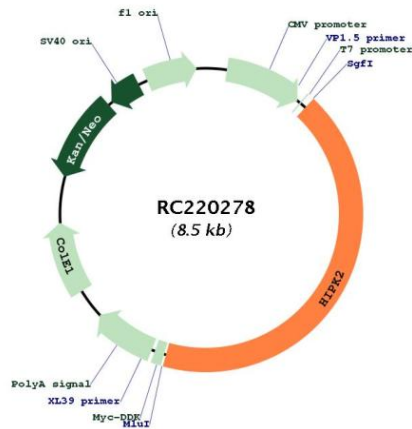


ACCN: NM_022740

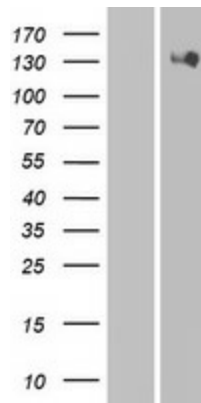
ORF Size: 3594 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_022740.5
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
MW:	131 kDa
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]

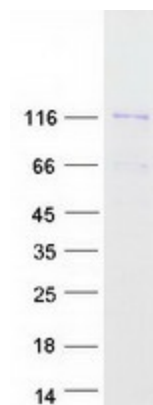
Product images:



Circular map for RC220278



Western blot validation of overexpression lysate (Cat# [LY411573]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220278 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HIPK2 protein (Cat# [TP320278]). The protein was produced from HEK293T cells transfected with HIPK2 cDNA clone (Cat# RC220278) using MegaTran 2.0 (Cat# [TT210002]).