

Product datasheet for RC220586

N4BP2 (NM_018177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	N4BP2 (NM_018177) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	N4BP2
Synonyms:	B3BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220586 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAAGGAGAAGGAAAAATCTTGGGGAAATCCTTTTCGGAAGACTGCAAACCCTAAGGAAGTTGTCG
TATCCAGTGTGCTAGTCGTGAGGAGCCAACCACTACTCTACCTCCATGGGTGAGACAAAAGTTGATCA
GGAAGAATCTTACCAGTATCTCAGAGATATTTCTGATCTGGATCCTGATGTAGTGTATTTGATGCTT
TCTGAATGTGATTTCAAAGTTGAAAATGCTATGGATTGTCTATTAGAATTATCTGCCACTGATACCAAGA
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GAAGCACATGAATGGAACCAGAATCGTGCAAAAAGAAGCATTGAGAAGAAGATATCTCCTATAATTATAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220586 protein sequence
Red=Cloning site Green=Tags(s)

MPRRRNKLGGNPFRKTANPKEVVSSVASREEPTTTLPSMGETKVDQEELFTSISEIFSDLPDVPVYML
SECDFKVENAMDCLLEL SATDTKIEESSQS FVAENQVGAESKIMKKRPEEESKMSDFLDMQLTE
DLDSL IQNAFEKLNSSPDDQVYF LPSQDVNSFNDSSEFINPSSNMTPIFSTQNMNLNGENLENSGSTL
SLNPLPSHVLNESKCFIKDNTLAE SNYPEDSLLSSSLNVASDSIAGCSSLNQKQKELLESECVEAQFS
EAPVDLDASEPQACLNL PGLDLPGTGGDQKSTRVSDVFLPSEGFNFKPHKHPPELPTKGKDVSYCPVLAPL
PLLLPPPPPPMWNPMIPAFDLFQGNHGFVAPVVTAAHWRSVNYTFPPSVISHTSPTKVWRNKDGT SAY
QVQETPVSQVVRKTSYVGLVLLRGLPGSGKSF LARTLQEDNPSGVILSTDDYFINGQYQFDVKYLG
EAHEWNQNRAKEAFEKISPIIIDNTNLQAWEMKPYVALSQKHKVKVLFREPDTWWKFKPKELARRNIHG
VSKEK ITRMLEHYQRFSVPIIMSSSVPEKIERIELCAYS CEDRSTSPRDNEDIISEKEENILSLSLKHL
EFTEEKNDVTKETMLPENVA YLSNADLNKRKEISDMNPSIQSALILETPHMYFSDSESKLQATDKSEN
EQIEMVAVKGYSKTDTDSMERVSPSTCCSENNQEDCDLANSGLQNEKSSPGEIVEERATVTKAFGKQ
KSKSTLEKFRHEL SNFVGDWPDKTIGQRTKRNRKTEKTSVQSDKKYNYPQSHKLVNSVSVNTDCVQQ
RGS PHEVESVEDGRKSQCDDASEPLNSYKYDAYKNIDKNSFNIMGDWPSSSLAQREHRSRMPKTGLSEP NL
EIGTNDKMNEISLSTAHEACWGTSSQKLTGSSNLGSSEMLLSEMTCE SQTCLSKKSHGQHTSLPLTFT
NSAPT VSGVVEPQTLAECQE QMPKRDPGKEVGMCTQTEPQDFALLWKIEKNKISISDSIKVLTGRLDGFK
PKVFNINTKSDVQEAI PYRVMYDKSTFVEESEL TSADESENLNILCKLFGSFSLEALKDLYERCNKDIIW
ATSLLLDSETKLCEDEFENFQKSCDGSQIGPFS LGLNLKEIISQRGTLENSNSPVPEFSHGIGISNADS
QSTCDAERGNSEQAEMRAVTPENHESMTSIFPSAAVGLKNNNDILPNSQEELLYSSKQSFPGILKATTPK
DMSETEKNL VVTETGDN IHSPSHFSDIFNFVSSTSNLELNEE IYFTDSLEIKRNENFPKDYVKFSDEEEF
MNEDEKEMKEILMAGSSL SAGVRGEDKTEILNPTPAMAKSLTIDCLELALPPELAFQLNELFGPVGIDSG
SLTVEDCVVHIDLNLAKVIHEKWKE SVMERQRQEEVSCGKFMQDPSLVGHTGLDNPEQKSSQRTGKLLK
TLTASEMLPLLDHWNTQT KKVSLREIMSEEIALQEKHNLKRETLMEKDCATKLEKQLFKIFPAINQNF
LVDIFKDHNSLEHTVQFLNCVLEGDPVKTVVAQEFVHQNENVTSHTGQKSKEKKPKKLEETEETSELS
FQDFEYDPDYDDYRAEAF LHQQKRM ECYSKAKEAYRIGKKNVATFYAQQGTLHEQKMEANHLAAIEIFEK
VNASLLPQNVL DLHGLHVDEALEHLMRVLEKKTEEFKQNGGKPYLSVITGRGNHSQGGVARIKPAVIKYL
ISHSFRFSEIKPGCLKVMLK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6685_h02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_018177

ORF Size: 5310 bp

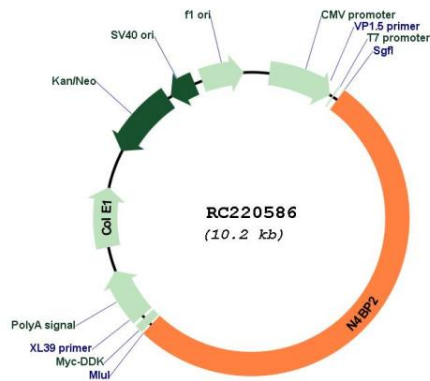
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

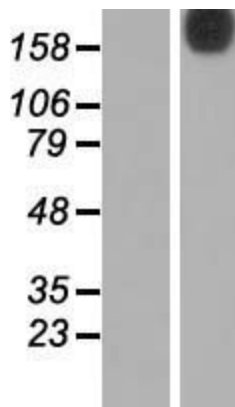
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_018177.6
RefSeq Size:	9666 bp
RefSeq ORF:	5313 bp
Locus ID:	55728
UniProt ID:	Q86UW6
Cytogenetics:	4p14
Domains:	Smr
MW:	198.9 kDa
Gene Summary:	This gene encodes a protein containing a polynucleotide kinase domain (PNK) near the N-terminal region, and a Small MutS Related (Smr) domain near the C-terminal region. The encoded protein can bind to both B-cell leukemia/lymphoma 3 (BCL-3) and neural precursor cell expressed, developmentally downregulated 4, (Nedd4) proteins. This protein binds and hydrolyzes ATP, may function as a 5'-polynucleotide kinase, and has the capacity to be a ubiquitylation substrate. This protein may play a role in transcription-coupled DNA repair or genetic recombination. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC220586



Western blot validation of overexpression lysate (Cat# [LY413096]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220586 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).