

Product datasheet for **RC224214**

N4BP1 (NM_153029) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	N4BP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224214 representing NM_153029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGCGCCCGGGCGGTGCTGGACGAGTTCAGTGCAGCTGAGAAGGCGGAGCTGCTGGAGCAGAGCC
 GCGGCCGATCGAGGGCCTGTTTGGCGTGAGCCTAGCCGTGCTCGGCGCGCTAGGGGCTGAGGAGCCGCT
 GCCCGCGCGCATCTGGCTGCAGCTCTGCGGGGCGCAGGAGGCGGTGCACAGCGCCAAGGAATATATTTAA
 GGAATCTGTGAACCTGAAGTGAAGAAAGAGAATGTTACCCCAAGGACATGCACTGCATTTTTGTTGGGG
 CAGAGAGCCTGTTTCTGAAAAGCTTGATTACAGGATCTTGTGCTGACCTCTGCATTCTGGACATTGGCCT
 TCTTGGCATCAGAGGAAGTGTGAGGCTGTGGTTCATGGCTAGGAGTCACATTCACAAATTTGTAAGCTC
 TTTGAAAATAAAGAGAAGCTACCCAGTAGTCAGAAAGAATCAGAGGTGAAAAGGAATTCAACAATTTG
 TTGAAGCCCATGCAGACAATTACACAATGGATTGTTGATTTTCCCACTTCCTTGAAAAAGAAGCTTTT
 GACACTCACACAAGGTGAGGAGAATCTTTGAAACAGGAGATGATGAGGTTATTGAAATGAGAGATTCT
 CAACAAACAGAGTTTACACAGAATGCTGCCACAGGGCTGAATATTTCTAGAGATGAAACTGTTTTGCAGG
 AAGAGGCAAGAAATAAGCTGGGACTCCTGTTTCTGAGCTTACAAAACAAATGGACACAGTCCTTTCTAG
 CTCACCAGATGTGCTTTTTGATCCAATAAATGGTCTAACCCAGATGAAGAGGCACCTTCCAATGAGAGA
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 TTCAGTGTGACAGTGTATCCAGAGACCAACAAACAAAAATAAAGGTGTTTATAGCAGCACAAATGAG
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 GGCTTTTCACTTTCTGTTGCCTCTCCAAGTCCCAAGAAAGTCAATTTTGTTCAGGGGAGCTTCAAGTC
 ACCAGCCAGAGTTCCACTTTTTCTGAAAATGGTTTACACCAGCAGCCAGAACCCTTGCTTCCAATAA
 TATGAAATCTGCCTGTGAAAAACGTTTAGGATGTTGTAGTTCTCTCATTTAAGCCAAATGTCTCAACC
 CTTTCTCCACCAATGCCACTGCCCCAGCTGTACCTTCGGTACTGATGCAAGGTGCGCAGGACCTTCTG
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 CATGGTCTGAAAAAGTTCTTTTCTGTGCTGGAATTGCAATTGCAGTTGAATATTTTGAAGCTTGGCA
 ACAGAAACATCACTGTATTTGTCCTCAGTGGAGAACAAAGCGTGATCCTAATGTCAGAACAGCACTT
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 AAATGCGCTTTCTGCCATGGTGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224214 representing NM_153029

Red=Cloning site Green=Tags(s)

MAARAVLDEFTAPAEKAELLEQSRGRIEGLFGVSLAVLGALGAEELPARIWLQLCGAQEAVHSAKEYIK
GICEPELEERECPKDMHCIFVGAESLFLKSLIQDTCADLCILDIGLLGIRGSAEAVVMARSHIQQFVKL
FENKENLPSSQKESEVKREFKQFVEAHADNYTMDLLILPTSLKKELLTLTQGEENLFETGDDEVIEMRDS
QQTEFTQNAATGLNISRDETVLQEEARNKAGTPVSELTKQMDTVLSSSPDVLFDPIINGLTPDEEALSNER
ICQKRRFSDSEERHTKKQFSEENVQEGEILHDAKTLAGNVIADLSDSSADSENLSPIKETTEEMEYNIL
VNF FKTMGYSQEI VEKVIKVYGPSTEPLLLLEEIEKENKRFQEDREFSAGTVYPETNKTKNKGVSSTNE
LTTDSTPKKTAHTQQNMVEKFSQLPFKVEAKPCTSNCRINTFRTVPIEQKHEVWGSNQNYICNDPETD
GLSPSVASPSPEVNFVSRGASSHQPRVPLFPENGLHQPEPLLPNNMKSACEKRLGCCSSPHSKPNCST
LSPPMPLPQLLPSVTDARSAGPSDHIDSSVTGVQRFRTLKIPYKLELKNEPGRDLDKHIVIDGSNVAIT
HGLKKFFSCRGIAIAVEYFWKLGNRNITVFVPQWRTRRDPNVTEQHFLTQLQELGILSLTPARMVFERI
ASHDDRFLHLADKTGGIIVTNDNFREFVNESVSWREIITKRLQYTFVGDI FMVPDDPLGRSGPRLEEF
LQKEVCLRDMQPLL SALPNVGMFDPSFRVPGTQAASTSHQPPTRIQGAPSSHWLPQQPHFPLLPALPSLQ
QNLPMQAQRSSAETNELREALLKIFPDSEQLKIDQILVAHPYMKDLNALSAMVLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

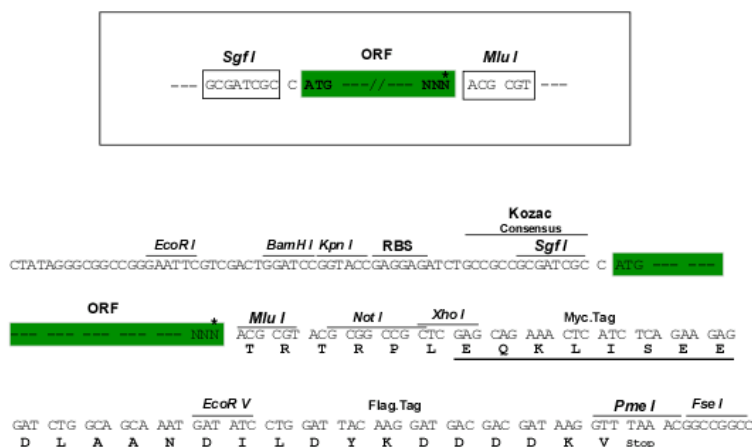
https://cdn.origene.com/chromatograms/mk8116_h09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_153029

ORF Size: 2688 bp

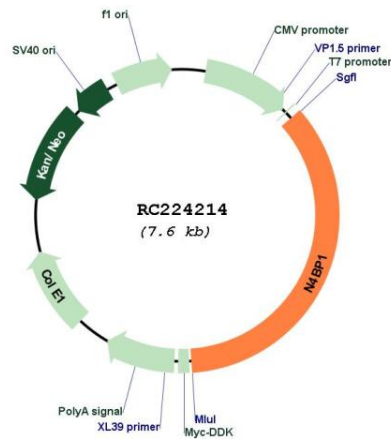
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_153029.4</u>
RefSeq Size:	7121 bp
RefSeq ORF:	2691 bp
Locus ID:	9683
UniProt ID:	<u>O75113</u>
Cytogenetics:	16q12.1
MW:	100.2 kDa
Gene Summary:	Inhibitor of the E3 ubiquitin-protein ligase ITCH. Acts by interacting with the second WW domain of ITCH, leading to compete with ITCH's substrates and impairing ubiquitination of substrates (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224214