

Datasheet for ABIN4926776

## Human NBPF4 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	NBPF4
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

### Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human NBPF4 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1917 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGTGGTAT CTGCCGACCC TTTGTCCAGC GAGAGGGCAG AGATGAACAT CCTAGAAAATC AACCAGGAAT TGCCTCGCA GCTGGCAGAG AGCAATCAGC AGTTCCGAGA CCTCAAAGAG AAATTCCTTA TAACTCAAGC TACTGCCTAC TCCCTGGCCA ACCAGCTGAA GAAATACAAG TGTGAAGAGT ACAAAGACAT CATAGACTCT GTGCTGAGGG ATGAACTGCA GTCCATGGAG AAGCTGGCAG AGAAGCTCAG GCAAGCTGAG GAGCTCAGGC AGTATAAAGC CCTGGTTTAC

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TCTCAGGCAA AAGAGCTGAC CCAGTTACGG GAGAAGTTAC GGAAGGGAG AGATGCCTCC  
CGCTGGCTGA ACAAGCATCT GAAAACCTC CTCACTCCTG ATGACCCTGA CAAGTCCCAG  
GGTCAGGACC TCCGAGAGCA GCTGGCTGAG GGGCACAGGC TGGCAGAGCA CCTTGTTCCAC  
AAGCTGAGCC CAGAAAATGA TGAAGATGAA GATGAGGATG AAGACGACAA AGACGAGGAG  
GTTGAGAAAG TACAGGAATC ACCTGCCCCC AGAGAGGTGC AGAAGACTGA AGAAAAGGAA  
GTCCCTCAGG ACTCACTGGA GGAATGTGCT GTCACTTGTT CAAATAGTCA CAACCCTTCT  
AACTCCAACC AGCCTCACAG GAGCACCAA ATCACATTTA AGGAACACGA AGTCGACTCT  
GCTCTGGTTG TAGAGAGTGA ACACCCTCAT GATGAAGAGG AGGAAGCTCT AACATTCCC  
CCAGAAAATC AAAATGACCA TGAGGAGGAG GAGGGGAAAG CGCCAGTGCC CCCCAGACAC  
CATGACAAGT CCAACTCTTA CCGGCATCGT GAAGTCTCTT TCTTGGCATT GGATGAACAG  
AAAGTTTGCT CCGCTCAGGA TGTTGCCAGG GATTACTCCA ATCCCAAATG GGATGAAACC  
TCACTTGGCT TCCTCGAAAA GCAAAGTGAT CTTGAAGAGG TGAAAGGACA AGAAACAGTT  
GCTCCCAGGC TCAGCAGGGG ACCGCTGAGA GTGGACAAGC ATGAAATCCC CCAGGAGTCA  
CTGGATGGAT GTTGCTTGAC TCCTTCCATC CTTCTGACC TGACTCCCTC CTACCACCCT  
TATTGGAGCA CTTTGTACTC TTTTGAAGAC AAGCAAGTCA GCTTGGCTCT TGTAGACAAA  
ATTA AAAAGG ATCAAGAGGA GATAGAAGAC CAAAGCCCAC CATGCCCCAG GCTCAGCCAG  
GAGCTGCCAG AGGTGAAGGA GCAGGAAGTC CCAGAGGACT CTGTGAATGA AGTTTACTTG  
ACTCCCTCAG TTCACCATGA CGTGTCTGAC TGCCACCAGC CTTATAGCAG CACCTTGTCC  
TCATTGGAGG ATCAGCTTGC CTGCTCTGCT CTGGATGTAG CCTCCCCAC CGAGGCGGCC  
TGTCCCCAAG GGACTTGGAG TGGAGACTTG AGCCACCACC AGTCAGAGGT GCAAGTTTCA  
CAGGCACAGC TGGAACCAAG CACCCTGGTG CCCAGTTGTC TGCGACTACA GCTGGATCAA  
GGTTCCACT GTGGGAACGG CTTGGCCCAG CGGGGCCCTT CCTCCACCAC CTGCAGCTTC  
TCAGCCAATG CTGATTCTGG GAACCAATGG CCCTTCCAAG AGCTGGTTTT AGAGCCCTCT  
CTGGGGATGA AGAACCTCC CCAGCTGGAA GATGATGCAC TTGAAGGCTC AGCAAGCAAC  
ACACAAGGGC GTCAAGTCAC TGGCCGATT CGTGCCTCCC TTGTCCTGAT ACTGAAGACC  
ATCAGAAGAA GACTCCCGTT CAGCAAGTGG AACTGGCAT TCAGATTCGC TGGCCCGCAT  
GCTGAGAGCG CAGAGATACC AAATACTGCT GGAAGGACGC AAAGGATGGC AGGATGA

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Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

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Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

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Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

## Product Details

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Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

## Target Details

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Gene: NBPF4

Alternative Name: NBPF4 ([NBPF4 Products](#))

Background: This gene is a member of the neuroblastoma breakpoint family (NBPF) which consists of dozens of recently duplicated genes primarily located in segmental duplications on human chromosome 1. This gene family has experienced its greatest expansion within the human lineage and has expanded, to a lesser extent, among primates in general. Members of this gene family are characterized by tandemly repeated copies of DUF1220 protein domains. Gene copy number variations in the human chromosomal region 1q21.1, where most DUF1220 domains are located, have been implicated in a number of developmental and neurogenetic diseases such as microcephaly, macrocephaly, autism, schizophrenia, mental retardation, congenital heart disease, neuroblastoma, and congenital kidney and urinary tract anomalies. Altered expression of some gene family members is associated with several types of cancer. This gene family contains numerous pseudogenes. [provided by RefSeq, Mar 2013].

Gene ID: 148545

NCBI Accession: [NM\\_001143989](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

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## Handling

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Expiry Date: 12 months

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)