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# Product datasheet for RC227826

## NBPF6 (NM_001143987) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | NBPF6 (NM_001143987) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | NBPF6 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC227826 representing NM_001143987
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGTATCTGCCGACCCTTTGTCCAGCGAGAGGGCAGAGATGAACATCCTAGAAATCAACCAGGAAT
TGCGCTCGCAGCTGGCAGAGAGCAATCAGCAGTTCCGAGACCTCAAAGAGAAATTCCTTATAACTCAAGC
TACTGCCTACTCCCTGGCCAACCAGCTGAAGAAATACAAGTGTGAAGAGTACAAAGACATCATAGACTCT
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AGTATAAAGCCCTGGTTCACTCTCAGGCAAAAGAGCTGACCCAGTTACGGGAGAAGTTACGGGAAGGGAG
AGATGCCTCCCGCTGGCTGAACAAGCATCTGAAAACCCTCCTCACTCCTGATGACCCTGACAAGTCCCAG
GGTCAGGACCTCCGAGAGCAGCTGGCTGAGGGGCACAGGCTGGCAGAGCACCTTGTTCACAAGCTGAGCC
CAGAAAATGATGAAGATGAAGATGAGGATGAAGACGACAAAGACGAGGAGGTTGAGAAAGTACAGGAATC
ACCTGCCCCCAGAGAGGTGCAGAAGACTGAAGAAAAGGAAGTCCCTCAGGACTCACTGGAGGAATGTGCT
GTCACTTGTTCAAATAGTCACAACCCTTCTAACTCCAACCAGCCTCACAGGAGCACCAAAATCACATTTA
AGGAACACGAAGTCGACTCTGCTCTGGTTGTAGAGAGTGAACACCCTCATGATGAAGAGGAGGAAGCTCT
AAACATTCCCCCAGAAAATCAAAATGACCATGAGGAGGAGGAGGGGAAAGCGCCAGTGCCCCCCAGGAAC
CGACAATCACTTGAACCAGGTGAACTGACCAACCTCAGGGATTTCCTGATCTCACCTGTGGTCTCCCATG
TGGCTAATCCAGGACACCATGACAAGTCCAACTCTTACCGGCATCGTGAAGTCTCTTTCTTGGCATTGGA
TGAACAGAAAGTTTGCTCCGCTCAGGATGTTGCCAGGGATTACTCCAATCCCAAATGGGATGAAACCTCA
CTTGGCTTCCTCGAAAAGCAAAGTGATCTTGAAGAGGTGAAAGGACAAGAAACAGTTGCTCCCAGGCTCA
GCAGGGGACCGCTGAGAGTGGACAAGCATGAAATCCCCCAGGAGTCACTGGATGGATGTTGCTTGACTCC
TTCCATCCTTCCTGACCTGACTCCCTCCTACCACCCTTATTGGAGCACTTTGTACTCTTTTGAAGACAAG
CAAGTCAGCTTGGCTCTTGTAGACAAAATTAAAAAGGATCAAGAGGAGATAGAAGACCAAAGCCCACCAT
GCCCCAGGCTCAGCCAGGAGCTGCCAGAGGTGAAGGAGCAGGAAGTCCCAGAGGACTCTGTGAATGAAGT
TTACTTGACTCCCTCAGTTCACCATGACGTGTCTGACTGCCACCAGCCTTATAGCAGCACCTTGTCCTCA
TTGGAGGATCAGCTTGCCTGCTCTGCTCTGGATGTAGCCTCCCCCACCGAGGCGGCCTGTCCCCAAGGGA
CTTGGAGTGGAGACTTGAGCCACCACCGGTCAGAGGTTCAAATTTCACAGGCACAGCTGGAACCAAGCAC
CCTGGTGCCCAGTTGTCTGCGACTACAGCTGGATCAAGGGTTCCACTGTGGGAACGGCTTGGCCCAGCGG
GGCCTTTCCTCCACCACCTGCAGCTTCTCAGCCAATGCTGATTCTGGGAACCAATGGCCCTTCCAAGAGC
TGGTTTTAGAGCCCTCTCTGGGGATGAAGAACCCTCCCCAGCTGGAAGATGATGCACTTGAAGGCTCAGC
AAGCAACACACAAGGGCGTCAAGTCACTGGCCGGATTCGTGCCTCCCTTGTCCTGATACTGAAGACCATC
AGAAGAAGACTCCCGTTCAGCAAGTGGAGACTGGCATTCAGATTCGCTGGCCCGCATGCTGAGAGTGCAG
AGATACCAAATACTGCTGAAAGGATGCAAAGGATGATAGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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**Protein Sequence:**

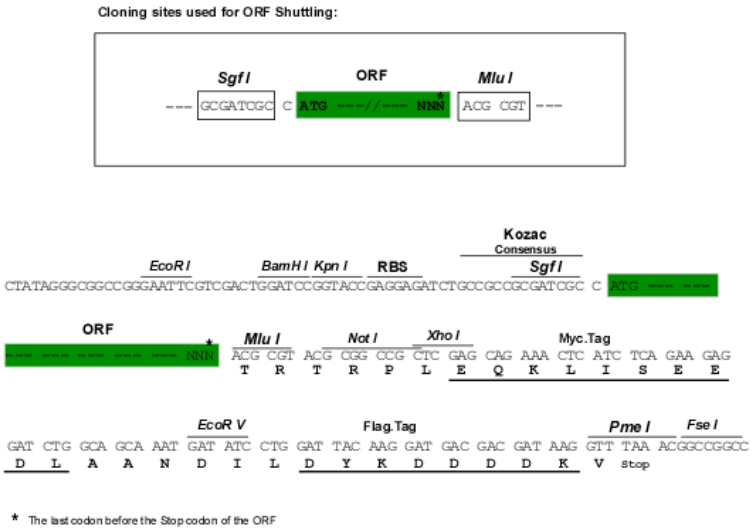
>RC227826 representing NM_001143987
Red=Cloning site Green=Tags(s)

MVVSADPLSSERAEMNILEINQELRSQLAESNQQFRDLKEKFLITQATAYSLANQLKKYKCEEYKDIIDS
VLRDELQSMEKLAEKLRQAEELRQYKALVHSQAKELTQLREKLREGRDASRWLNKHLKTLLTPDDPDKSQ
GQDLREQLAEGHRLAEHLVHKLSPENDEDEDEDEDDKDEEVEKVQESPAPREVQKTEEKEVPQDSLEECA
VTCSNSHNPSNSNQPHRSTKITFKEHEVDSALVVESEHPHDEEEEALNIPPENQNDHEEEEGKAPVPPRN
RQSLEPGELTNLRDFLISPVVSHVANPGHHDKSNSYRHREVSFLALDEQKVCSAQDVARDYSNPKWDETS
LGFLEKQSDLEEVKGQETVAPRLSRGPLRVDKHEIPQESLDGCCLTPSILPDLTPSYHPYWSTLYSFEDK
QVSLALVDKIKKDQEEIEDQSPPCPRLSQELPEVKEQEVPEDSVNEVYLTPSVHHDVSDCHQPYSSTLSS
LEDQLACSALDVASPTEAACPQGTWSGDLSHHRSEVQISQAQLEPSTLVPSCLRLQLDQGFHCGNGLAQR
GLSSTTCSFSANADSGNQWPFQELVLEPSLGMKNPPQLEDDALEGSASNTQGRQVTGRIRASLVLILKTI
RRRLPFSKWRLAFRFAGPHAESAEIPNTAERMQRMIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001143987

**ORF Size:** 2001 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).

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| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001143987.1, NP_001137459.1 |
| **RefSeq ORF:** | 2004 bp |
| **Locus ID:** | 653149 |
| **UniProt ID:** | Q5VWK0 |
| **Cytogenetics:** | 1p13.3 |
| **MW:** | 75.2 kDa |
| **Gene Summary:** | 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, cognitive disability, 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. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2013] |

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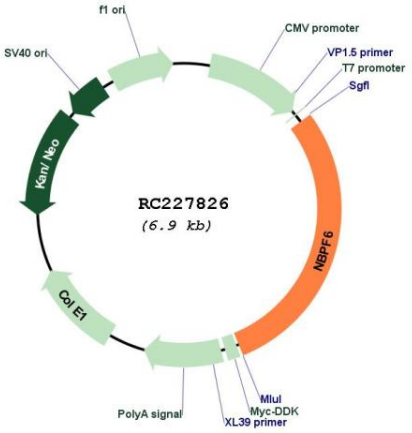
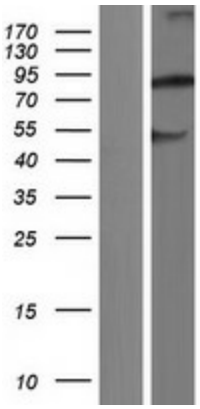
## Product images:




Circular map for RC227826




Western blot validation of overexpression lysate (Cat# [LY428447]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227826 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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