

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) |



[View online »](#)

ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGTATCTGCCACCCTTTGTCCAGCGAGAGGGCAGAGATGAACATCCTAGAAATCAACCAGGAAT
 TCGCTCGCAGCTGGCAGAGAGCAATCAGCAGTCCGAGACCTCAAAGAGAAATTCCTTATAACTCAAGC
 TACTGCCTACTCCCTGGCCAACCAGCTGAAGAAATACAAGTGTGAAGAGTACAAAGACATCATAGACTCT
 GTGCTGAGGGATGAAGTGCAGTCCATGGAGAAGCTGGCAGAGAAGCTCAGGCAAGCTGAGGAGCTCAGGC
 AGTATAAAGCCCTGGTTCACTCTCAGGCAAAAGAGCTGACCCAGTTACGGGAGAAGTTACGGGAAGGGAG
 AGATGCCTCCCGCTGGCTGAACAAGCATCTGAAAACCTCCTCACTCTGATGACCCTGACAAGTCCAG
 GGTGAGGACCTCCGAGAGCAGCTGGCTGAGGGGCACAGGCTGGCAGAGCACCTTGTTCACAAGCTGAGCC
 CAGAAAATGATGAAGATGAAGATGAGGATGAAGACGACAAGACGAGGAGTTGAGAAAATACAGGAATC
 ACCTGCCCCAGAGAGGTGCAGAAGACTGAAGAAAAGGAAGTCCCTCAGGACTCACTGGAGGAATGTGCT
 GCACTTGTTCAAATAGTCACAACCTTCTAACTCCAACCAAGCCTCACAGGAGCACAAAATCACATTTA
 AGGAACACGAAGTCGACTCTGCTCTGGTTGTAGAGAGTGAACACCCTCATGATGAAGAGGAGGAAGCTCT
 AAACATCCCCAGAAAATCAAAATGACCATGAGGAGGAGGGGAAAGCGCCAGTCCCCCAGGAAC
 CGACAATCACTTGAACCAGGTGAAGTACCAACCTCAGGGATTTCTGATCTCACCTGTGGTCTCCCATG
 TGGCTAATCCAGGACACCATGACAAGTCCAACCTTACCAGGATCGTGAAGTCTCTTTCTTGGCATTGGA
 TGAACAGAAAATTTGCTCCGCTCAGGATGTTGCCAGGGATTACTCCAATCCCAAATGGGATGAAACCTCA
 CTTGGCTTCTCGAAAAGCAAAGTATCTTGAAGAGGTGAAAGGACAAGAAACAGTTGCTCCAGGCTCA
 GCAGGGGACCGCTGAGAGTGGACAAGCATGAAATCCCCCAGGAGTCACTGGATGGATGTTGCTTGACTCC
 TTCCATCCTTCCGACTGACTCCCTCCTACCACCTTATTGGAGCACTTGTACTCTTTTGAAGACAAG
 CAAGTCAGCTTGCTCTTGTAGACAAAATTAAGAGGATCAAGAGGAGATAGAAGACCAAAGCCACCAT
 GCCCCAGGCTCAGCCAGGAGCTGCCAGAGGTGAAGGAGCAGGAAGTCCCAGAGGACTCTGTGAATGAAGT
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 TTGGAGGATCAGCTTGCCTGCTGTCTGCTGATGTAGCTCCCCCACCAGGCGGCTGTCCCAAGGGA
 CTTGGAGTGGAGACTTGAGCCACCACCGGTCAGAGGTTCAAATTTACAGGCACAGCTGGAACCAAGCAC
 CCTGGTGCCAGTTGTCTGCGACTACAGCTGGATCAAGGGTCCACTGTGGGAACGGCTTGGCCAGCGG
 GGCCTTCTCCACCACCTGCAGCTTCTCAGCCAATGCTGATTCTGGGAACCAATGGCCCTTCAAGAGC
 TGGTTTTAGAGCCCTCTCTGGGGATGAAGAACCCTCCCCAGCTGGAAGATGATGACTTGAAGGCTCAGC
 AAGCAACACAAAGGCGTCAAGTCACTGGCCGGATTCGTGCCTCCCTTGTCTGATACTGAAGACCATC
 AGAAGAAGACTCCCGTTCAGCAAGTGGAGACTGGCATTGAGATTCGCTGGCCCGCATGCTGAGAGTGCAG
 AGATACAAAATACTGCTGAAAGGATGCAAAGGATGATAGGA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

MVVSADPLSSERAEMNILEINQELRSQLAESNQFRDLKEKFLITQATAYSLANQLKYYKCEEYKDIIDS
 VLRDELQSMEKLAEKLRQAEELRQYKALVHSQAKELTQLREKLREGRDASRWLNKHLKTLTPDDPKSQ
 GQDLREQLAEGHRLAEHLVHKLSPENDEDEDEDDKDEEVEKVQESPAPREVQKTEEKEVQDSLEECA
 VTCNSNHNPNSNSNQPHRSTKITFKEHEVDSALVVESEHPHDEEEALNIPPENQNDHEEEGKAPVPPRN
 RQSLPEGELTNLRDFLISPVVSHVANPGHHDKSNSYRHREVSFLALDEQKVCSAQDVARDYSNPKWDETS
 LGFLEKQSDLEEYKQETVAPRLSRGPLRVDKHEIPQESLDGCCLTPSILPDLTPSYHPYWSTLYSFEDK
 QVSLALVDKIKKQEEIEDQSPPCRLSQELPEVKEQEVPEDSVNEVYLTPSVHHDVSDCHQPYSTLSS
 LEDQLACSALDVASPTAAACQGTWSDLSHHRSEVQISQAQLEPSTLVPSCRLQLDQGFHCGNLAQR
 GLSSTTCSFSANADSGNQWPFQELVLEPSLGMKNPPQLEDDALEGSASNTQGRQVTGRIRASLVLILKTI
 RRRLPFKWRLAFRFAGPHAESAIEPNTAERMQRMIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001143987

ORF Size: 2001 bp

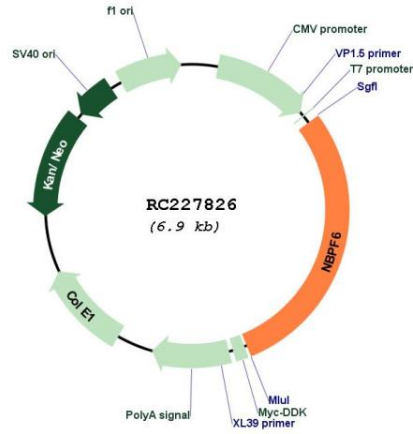
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

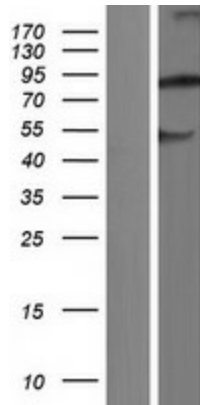
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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|-------------------------------|--|
| Reconstitution Method: | <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: | <u>NM_001143987.1</u> , <u>NP_001137459.1</u> |
| RefSeq ORF: | 2004 bp |
| Locus ID: | 653149 |
| UniProt ID: | <u>Q5VWK0</u> |
| Cytogenetics: | 1p13.3 |
| MW: | 75.2 kDa |
| Gene Summary: | <p>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]</p> |

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 untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227826 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).