

Product datasheet for **RC227208**

NBPF4 (NM_001143989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF4 (NM_001143989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NBPF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC227208 representing NM_001143989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGTATCTGCCGACCTTTGTCCAGCGAGAGGGCAGAGATGAACATCCTAGAAATCAACCAGGAAT
 TCGCTCGCAGCTGGCAGAGAGCAATCAGCAGTTCCGAGACCTCAAAGAGAAATTCCTTATAACTCAAGC
 TACTGCCTACTCCCTGGCCAACAGCTGAAGAAATACAAGTGTGAAGAGTACAAAGACATCATAGACTCT
 GTGCTGAGGGATGAAGTGCAGTCCATGGAGAAGCTGGCAGAGAAGCTCAGGCAAGCTGAGGAGCTCAGGC
 AGTATAAAGCCCTGGTTCACTCTCAGGCAAAAGAGCTGACCCAGTTACGGGAGAAGTTACGGGAAGGGAG
 AGATGCCTCCCGCTGGCTGAACAAGCATCTGAAAACCTCCTCACTCCTGATGACCCTGACAAGTCCAG
 GGTGAGGACCTCCGAGAGCAGCTGGCTGAGGGGCACAGGCTGGCAGAGCACCTTGTTCACAAGCTGAGCC
 CAGAAAATGATGAAGATGAAGATGAGGATGAAGACGACAAAGACGAGGAGTTGAGAAAGTACAGGAATC
 ACCTGCCCCCAGAGAGGTGCAGAAGACTGAAGAAAAGGAAGTCCCTCAGGACTCACTGGAGGAATGTGCT
 GTCACCTTGTTCAAATAGTCACAACCTTCTAACTCCAACAGCCTCACAGGAGCACCAAAATCACATTTA
 AGGAACACGAAGTCGACTCTGCTCTGGTTGTAGAGAGTGAACACCTCATGATGAAGAGGAGGAAGCTCT
 AAACATTCCTCCAGAAAATCAAATGACCATGAGGAGGAGGAGGGAAAGCGCCAGTGCCCCCAGACAC
 CATGACAAGTCCAACCTTACCGGCATCGTGAAGTCTCTTTCTTGGCATTGGATGAACAGAAAGTTTGCT
 CCGCTCAGGATGTTGCCAGGGTACTCCAATCCCAATGGGATGAAACCTCACTTGCTTCCTCGAAAA
 GCAAAGTGATCTTGAAGAGGTGAAAGGACAAGAAACAGTTGCTCCAGGCTCAGCAGGGGACCGTGAGA
 GTGGACAAGCATGAAATCCCCCAGGAGTCACTGGATGGATGTTGCTTGACTCCTTCCATCCTTCCTGACC
 TGACTCCCTCCTACCACCTTATTGGAGCACTTTGTAAGTCTTTTGAAGACAAGCAAGTCAAGTGGCTCT
 TGTAGACAAAATTAAAAAGGATCAAGAGGAGATAGAAGACCAAGCCACCATGCCCCAGGCTCAGCCAG
 GAGCTGCCAGAGGTGAAGGAGCAGGAAGTCCCAGAGGACTCTGTGAATGAAGTTTACTTGACTCCCTCAG
 TTCACCATGACGTGTCTGACTGCCACAGCCTTATAGCAGCACCTTGTCCTATTGGAGGATCAGCTTGC
 CTGCTCTGCTCTGGATGTAGCTCCCCCACCAGGCGGCTGTCCCAAGGGACTTGAGTGGAGACTTG
 AGCCACCACAGTCAGAGGTGCAAGTTTACAGGCACAGCTGGAACCAAGCACCTGGTGCCAGTTGTC
 TGCGACTACAGCTGGATCAAGGGTTCCTGTGGGAACGCTTGCCAGCGGGGCTTTCTCCACCAC
 CTGCAGCTTCTCAGCCAATGCTGATTCTGGGAACCAATGGCCCTTCCAAGAGCTGGTTTTAGAGCCCTCT
 CTGGGGATGAAGAACCCTCCCCAGCTGGAAGATGATGCACTTGAAGGCTCAGCAAGCAACACACAAGGGC
 GTCAAGTCACTGGCCGGATTCTGCCTCCCTTGTCTGATACTGAAGACCATCAGAAGAAGACTCCCGTT
 CAGCAAGTGGAGACTGGCATTGATTCGCTGGCCGCATGCTGAGAGCGCAGAGATACCAATACTGCT
 GGAAGGACGCAAAGGATGGCAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227208 representing NM_001143989

Red=Cloning site Green=Tags(s)

MVVSADPLSSERAEMNILEINQELRSQLAESNQQFRDLKEKFLITQATAYSLANQLKKYKCEEYKDIIDS
 VLRDELQSMEKLAEKLRQAEELRQYKALVHSQAKELTQLREKLREGDASRWLNKHLKTLTPDDPKSQ
 GQDLREQLAEGHRLAEHLVHKLSPENDEDEDEDEDDKDEEVEKVQESPAPREVQKTEEKEVPQDSLEECA
 VTCNSHNPSPNSNQPHRSTKITFKEHEVDSALVVESEHPHDEEEALNIPPENQNDHEEEEGKAPVPPRH
 HDKSNYSYRHREVSFLALDEQKVCSAQDVARDYSNPKWDETSGLFLEKQSDLEEVEKQGETVAPRLSRGPLR
 VDKHEIPQESLDGCCLTPSILPDLTPSYHPYWSLTYSFEDKQVSLALVDKIKKDQEEIEDQSPPCRLSQ
 ELPEVKEQEVPEDSVNEVYLTPSVHHDVSDCHQPYSSLTSSLEDQLACALSADVASPTEAACQPQGTWSGDL
 SHHQSEVQVSQAQLEPSTLVPSCRLRLQDQGFCGNGLAQRGLSSTTCSFSANADSGNQWPFQELVLEPS
 LGMKNPPQLEDDALEGSASNTQGRQVTGRIRASLVILKTIIRRLPFSKWRLAFRFAGPHAESAEIPNTA
 GRTORMAG

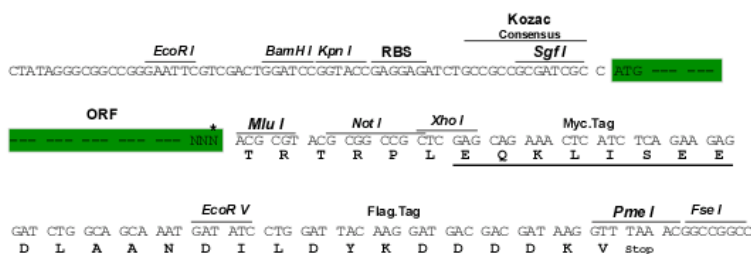
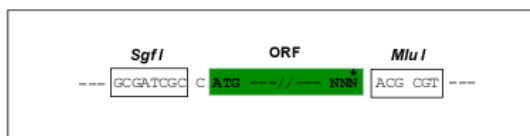
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8032_b08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001143989

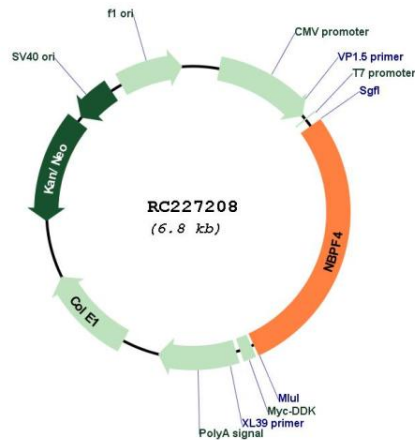
ORF Size: 1914 bp

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](#)

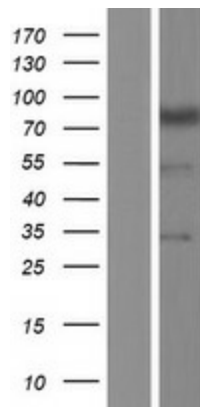
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001143989.2, NP_001137461.1</u>
RefSeq ORF:	1917 bp
Locus ID:	148545
UniProt ID:	<u>Q96M43</u>
Cytogenetics:	1p13.3
MW:	71.9 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. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RC227208



Western blot validation of overexpression lysate (Cat# [LY428449]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227208 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).