

Product datasheet for **RC212377**

NBPF15 (NM_173638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF15 (NM_173638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NBPF15
Synonyms:	AB14; AG3; NBPF16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC212377 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGTGGTATCAGCCGGCCCTTTGTCCAGCGAGAAGGCAGAGATGAACATTCTAGAAATCAATGAGAAAT
TGCGCCCCAGTTGGCAGAGAAGAAACAGCAGTTCAGAAACCTCAAAGAGAAATGTTTTCTAACTCAACT
GGCCGGCTTCTGGCCAACCGACAGAAGAAATACAAATATGAAGAGTGCAAAGATCTCATAAAATTTATG
CTGAGGAATGAGCGACAGTTCAAGGAGGAGAAGCTTGCAGAGCAGCTCAAGCAAGCTGAGGAGCTCAGGC
AATATAAAGTCTGGTTCAGCTCAGGAACGAGAGCTGACCCAGTTAAGGGAGAAGTTACGGGAAGGGAG
AGATGCCTCCCGCTCATTGAATGAGCATCTCCAGGCCCTCTCACTCCGGATGAGCCGACAAAGTCCAG
GGCAGGACCTCCAAGAACAGCTGGCTGAGGGGTGACTGACACAGCACCTTGTCCAAAAGCTCAGCC
CAGAAAATGACAACGATGACGATGAAGATGTTCAAGTTGAGGTGGCTGAGAAAGTGCAGAAATCGTCTGC
CCCCAGGGAGATGCAGAAGGCTGAAGAAAAGGAAGTCCCTGAGGACTCACTGGAGGAATGTCCATCACT
TGTTCAAATAGCCATGGCCCTTATGACTCCAACAGCCACATAAGAAAACCAAAATCACATTTGAGGAAG
ACAAAAGTCGACTCAACTCTCATTGGCTCATCTCTCATGTTGAATGGGAGGATGCTGTACACATTATTCC
AGAAAATGAAAGTGATGATGAGGAAGAGGAAGAAAAGGGCCAGTGTCTCCAGGAATCTGCAGGAGTCT
GAAGAGGAGGAAGTCCCCAGGAGTCTGGGATGAAGGTTATTGACTCTCTCAATTCCTCTGAAATGT
TGGCTCGTACAGTCTTACAGCAGCACATTTCACTCATTAGAGGAACAGCAAGTCTGCATGGCTGTTGA
CATAGGCAGACATCGGTGGGATCAAGTGAAGAAAGGAGGACCAAGAGGCAACAGGTCCCAGGCTCAGCAGG
GAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACTCACTGGATAGATGTTATTCAACTCCTTCAG
GTTGTCTTGAAGTCACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTACGTATTGGAGCAACAGCGTGT
TGGCTTGGCTATTGACATGGATGAAATTGAAAAGTACCAAGAAGTGAAGAAGACCAAGACCCATCATGC
CCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACTCACTGGATAGATGTT
ATTCAACTCCTTCAGATTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGCAGTGTGTTTACTCATT
GGAGGAACAGTACCTTGGCTTGGCTCTTGGCTGGACAGAATTAAGGACCAAGAAGAGGAAGAAGAC
CAAGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGCCTGAAGTCTTGCAGGACT
CACTGGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAG
TTCCTTTTATGCATTGGAGGAAAAACATGTTGGCTTTTCTTGGAGTGGGAGAAATGAAAAGAAGGGG
AAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGAAAAGAAGGGGAAGAAAAGAAGGGGAAGATG
ACAACCCACCATGCCCCAGGCTCTACGGCGTGTGATGGAAGTGAAGAGCCTGAAGTCTTACAGGACTC
ACTGGATAGATGTTATTGACTCCGTCAATGTACTTTGAACAACCTGACTCATTCCAGCACTACAGAAGT
GTGTTTTACTCATTGAGGAAGAGCATATCAGCTTCGCCCTTTACGTGGACAATAGGTTTTTTACTTTGA
CGGTGACAAGTCTCCACCTGGTGTCCAGATGGGAGTCAATTTCCACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212377 protein sequence
 Red=Cloning site Green=Tags(s)

MVVSAGPLSSEKAEMNILEINEKLRPQLAEKKQQFRNLKEKCFLTQLAGFLANRQKKYKYEECKDLIKFM
 LRNERQFKEEKLAEQLKQAEELRQYKVLVHAQERELTQLREKLREGRDASRSLNEHLQALLTPDEPKSQ
 GQDLQEQLAEGCRLTQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSAPREMOKAEKEVPEDSLEECAIT
 CSNSHGYPYDSNQPHKTKITFEEDKVDSTLIGSSSHVWEDAVHIIPENESDDEEEEEKGPVSPRNLQES
 EEEVVPQESWDEGYSTLSIPPEMLASYQYSSTFHSLEEQQVCMVDIGRHRWDQVKKEDQEATGPRLSR
 ELLDEKEPEVLQDSLDRCYSTPSGCLELTDSCQPYRSAFYVLEQQRVGLAIDMDEIEKYQEVEEDQDPSC
 PRLSRELLDEKEPEVLQDSLDRCYSTPSDYLELPLDQGPPYSSAVYSLEEYQLGLALAVDRIKKDQEEEE
 QGPPCPRLSRELLEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGIEKKG
 KGKRRRGRSKKRRRGRKEGEDDNPPCPRLYGVLMEVEEPEVLQDSLDRCYSTPSMYFEQPSFQHYRS
 VFYSFEEHISFALYVDNRFFTLTVTSLHLVFMGVIFPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6695_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173638

ORF Size: 2010 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_173638.2](#), [NP_775909.1](#)

RefSeq Size: 4272 bp

RefSeq ORF: 2013 bp

Locus ID: 284565

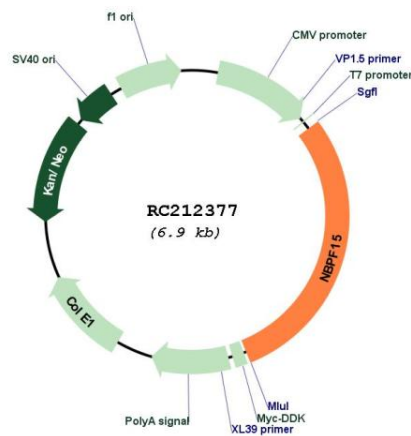
UniProt ID: [Q8N660](#)

Cytogenetics: 1q21.1

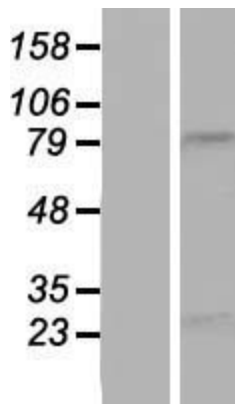
MW: 77.5 kDa

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, May 2013]

Product images:


Circular map for RC212377



Western blot validation of overexpression lysate (Cat# [LY406526]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212377 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).