

Product datasheet for **SC107071**

NBPF15 (NM_173638) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF15 (NM_173638) Human Untagged Clone
Tag:	Tag Free
Symbol:	NBPF15
Synonyms:	AB14; AG3; NBPF16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_173638, the custom clone sequence may differ by one or more nucleotides

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ATGGTGGTATCAGCCGGCCCTTTGTCCAGCGAGAAGGCAGAGATGAACATTCTAGAAATCAATGAGAAAT
TGCGCCCCCAGTTGGCAGAGAAGAAACAGCAGTTTCAAGAGAGTCAAGAGATCTCATAAAATTTATG
GGCCGGCTTCTGGCCAACCGACAGAAGAAATACAAATATGAAGAGTGCAAGATCTCATAAAATTTATG
CTGAGGAATGAGCGACAGTTCAAGGAGGAGAAGCTTGCAGAGCAGCTCAAGCAAGCTGAGGAGCTCAGGC
AATATAAAGTCTGTGTTACGCTCAGGAACGAGAGCTGACCCAGTTAAGGAGAAGTTACGGGAAGGGAG
AGATGCCTCCCGCTCATTGAATGAGCATCTCCAGGCCCTCCTCACTCCGGATGAGCCGACAAAGTCCAG
GGCAGGACCTCCAAGAACAGCTGGCTGAGGGGTGTAGACTGACACAGCACCTTGTCCAAAAGCTCAGCC
CAGAAAATGACAACGATGACGATGAAGATGTTCAAGTTGAGGTGGCTGAGAAAGTGAGAAATCGTCTGC
CCCCAGGAGATGCAGAAGGCTGAAGAAAAGGAAGTCCCTGAGGACTCACTGGAGGAATGTGCCATCACT
TGTTCAAATAGCCATGGCCCTTATGACTCCAACCGCCACATAAGAAAACCAAAATCACATTTGAGGAAG
ACAAAGTCGACTCAACTCTCATTGGCTCATCTCTCATGTTGAATGGGAGGATGTGTACACATTATTCC
AGAAAATGAAAGTGATGATGAGGAAGAGGAAGAAAAGGGCCAGTGTCTCCAGGAATCTGCAGGAGTCT
GAAGAGGAGGAAGTCCCCAGGAGTCTGGGATGAAGGTTATTGACTCTCTCAATTCTCTGAAATGT
TGGCCTCGTACAGTCTTACAGCAGCACATTTCACTCATTAGAGGAACAGCAAGTCTGCATGGCTGTTGA
CATAGGCAGACATCGGTGGGATCAAGTGAAAAGGAGGACCAAGAGGCAACAGGTCCCAGGCTCAGCAGG
GAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAAGGACTCACTGGATAGATGTTATTCAACTCCTTCAG
GTTGCTTGAAGTACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTACGTATTGGAGCAACAGCGTGT
TGGCTTGGCTATTGACATGGATGAAATTGAAAAGTACCAAGAAGTGAAGAAGACCAAGACCCATCATGC
CCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAAGGACTCACTGGATAGATGTT
ATTGACTCCTTCAGATTATCTTGAAGTCCCTGACTTAGGCCAGCCCTACAGCAGTGTGTTTACTCATT
GGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAGGACCAAGAAGAGGAAGAAGAC
CAAGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCTGAAGTCTTGCAAGGACT
CACTGGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAG
TTCCTTTTATGCATTGGAGGAAAACATGTTGGCTTTTCTTGGAGTGGGAGAAATTGAAAAGAAGGGG
AAGGGGAAGAAAAGAAGGGAAGAAGATCAAAGAAGAAAAGAAGGGGAAGAAAAGAAGGGAAGATG
ACAACCCACCATGCCCCAGGCTCTACGGCGTGTGATGGAAGTGAAGAGCCTGAAGTCTTACAGGACTC
ACTGGATAGATGTTATTGACTCCGTCAATGTACTTTGAACAACCTGACTCATTCCAGCACTACAGAAGT
GTGTTTTACTCATTTGAGGAAGAGCATATCAGCTTCGCCCTTTACGTGGACAATAGGTTTTTTACTTTGA
CGTGACAAGTCTCCACCTGGTGTTCAGATGGGAGTCATATCCCAATAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173638 unedited

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CTTATCAGAGTCTGCGCTACTGACAGTGTCTTTCAGCTCTGAGTTGAGGCACCTCGAACCT
TGTTTTTGTTGTTGAAGGATCCTAAAGTGCTGTGGGGAGTGATCATTGTTTGACAACATC
CCTGACTCCACCTCTTCTGCCACAAACGTCAGCATGGTGGTATCAGCCGGCCCTTTGTCC
AGCGAGAAGGCAGAGATGAACATTCTAGAAATCAATGAGAAATTGCGCCCCCAGTTGGCA
GAGAAGAAACAGCAGTTTCAAGAACTCAAGAGAAATGTTTTCTAACTCAACTGGCCGCG
TTCCTGGCCAACCGACAGAAGAAATACAAATATGAAGAGTGCAAGATCTCATAAAATTT
ATGCTGAGGAATGAGCGACAGTTCAAGGAGGAGAAGCTTGCAGAGCAGCTCAAGCAAGCT
GAGGAGCTCAGGCAATATAAAGTCTGTTCACGCTCAGGAACGAGAGCTGACCCAGTTA
AGGGAGAAGTTACGGGAAGGGAGAGATGCCTCCCGCTCATTGAATGAGCATCTNACGCC
CTCCTCACTCCGATGAGCCGGACAAGTCCCAGGGGCAGGACCCTCCAAGAACAGCTGGC
TGAGGGGTGTAACTGACACAGCACCTTGTCCAAAAGCTCAGCCCCAGAAATGACAACGA
TGACGATGAAGATGTTCAAGTTGAGGTGGCTGAAAAAGTGAGAAATCGCCTGCCCCACGG
AGATGCAAAAGCTGAAAAAGAAAGTCCCTGAGAACCACTGGAGGATGTGGCCTCCTTGT
TCAATAGCATGGCCCTTTGACTCCACCAGCCCTAAAAACCAATCCCTTTAAGGAAAAAG
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Restriction Sites: ECoRI-NOT

ACCN: NM_173638

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](#)

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: 4046 bp

RefSeq ORF: 2013 bp

Locus ID: 284565

UniProt ID: [Q8N660](#)

Cytogenetics: 1q21.1

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. This variant may include additional exon structure in the 5' UTR, but alternative splicing choices are present further upstream, and there are no 5' complete transcripts representing this variant.