

## Product datasheet for **SC127354**

### **NBPF3 (NM\_032264) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NBPF3 (NM_032264) Human Untagged Clone
Tag:	Tag Free
Symbol:	NBPF3
Synonyms:	AE2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC127354 sequence for NM\_032264 edited (data generated by NextGen Sequencing)

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ATGCCACTGACTCCCCTGTCCAGGGCTTCCAGTGGACTCTCCGAGGCCCTGATGTAGAA
ACTTCCCCATTCGGTGCACCAAGAGCAGCCTCACATGGTGTGGGCCGACATCAAGAGCTG
CGAGATCCAACAGTCCCTGGCCCCACCTCTTCTGCCACAAACGTACAGCATGGTGGTATCT
GCCGGCCCTTGGTCCGGTGAGAAGGCAGAGATGAACATTCTAGAAATCAACAAGAAATCG
GCCCCCCAGCTGGCAGAGAACAACAGCAGTTCAGAAACCTCAAACAGAAATGTCTTGTA
ACTCAAGTGGCCTACTTCTGGCCAACCGCAAAATAATTGCGACTATGAAGACTGCAAA
GACCTCATAAAATCTATGCTGAGGGATGAGCGGCTGCTCACAGAAGAGAAGCTTGACAGG
GAGCTCGGGCAAGCTGAGGAGCTCAGGCAATATAAAGTCTGGTTCCTCAGGAACGA
GAGCTGACCCAGTTAAGGGAGAAGTTACAGGAAGGGAGAGATGCCTCCCGCTCATTGAAT
CAGCATCTCCAGGCCCTCCTCCTCCGGATGAGCCGGACAACCTCCAGGGACGGGACCTC
CGAGAACAGCTGGCTGAGGGATGTAGGCTGGCACAGCACCTCGTCCAAAAGCTCAGCCCA
GAAAATGATGACGATGAGGATGAAGATGTTAAAGTTGAGGAGGCTGAGAAAGTACAGGAA
TTATATGCCCCCAGGGAGGTGCAGAAGGCTGAAGAAAAGGAAGTCCCTGAGGACTACTG
GAGGAGTGTGCCATCACTTGTTCAAATAGCCACCACCTTGTGAGTCCAACCAGCCTTAC
GGGAACACCAGAATCACATTTGAGGAAGACCAAGTCGACTCAACTCTCATTGACTCATCC
TCTCATGATGAATGGTTGGATGCTGTATGCATTATCCCAGAAAATGAAAGTGATCATGAG
CAAGAGGAAGAAAAGGGCCAGTGTCTCCAGGAATCTGCAGGAGTCTGAAGAGGAGGAA
GCCCCCAGGAGTCTGGGATGAAGGTGATTGGACTCTCTCAATTCCTCCTGACATGTCT
GCCTCATACCAGTCTGACAGGAGCACCTTTCCTCAGTAGAGGAACAGCAAGTCGGCTTG
GCTCTTGACATAGGCAGACATTGGTGTGATCAAGTGAAAAAGGAGGACCAAGAGGCCACA
AGTCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGACAGGACTCA
CTGGATAGATTTTATTCAACTCCCTGTGGGTACCTGGAAGTGCCTGACTTATGCCAGCCC
TACAGAAGTGAGTTTTACTCATTGCAGGAACAACACCTTGGCTTGCTCTTGACGTGGAC
AGAATGAAAAAGGACCAAGAAGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCTCAGC
AGAGAGCTGCCGGAGGTAGTAGACCTGAGGACTTGCAGGACTACTGGATAGATGGTAT
TCAACTCCTTTCAGTTATCCAGAACTGCCTGATTCATGCCAGCCCTACGGCAGTTGCTTT
TACTCACTGGAGGAAGAACACGTTGGCTTTTCTCTTGACGTGGATGAAATTGAAAAGTAC
CAAGAAGGGGAAGAAGATCAAAACCCACCATGCCCCAGGCTCAACGAGGTGCTGATGGAA
GCAGAAGAGCCTGAAGTCTTGACAGGACTACTGGATAGATGTTATTCGACTACTTCAACT
TACTTTCAACTACATGCCTCATTCCAGCAGTACAGAAAGTGCCTTTTACTCATTGAGGAA
CAGGACGTCAGCTTGGCCCTTGACGTGGACAATAGGTTTTTTACTTTGACAGTGATAAGG
CACCACCTGGCCTTCCAGATGGGAGTCATATCCACACTAA
    
```

Clone variation with respect to NM\_032264.2  
 341 a=>g;1284 t=>c;1286 t=>g;1289 a=>g;1332 c=>g;1375 t=>g;1503 g=>a;1551 a=>c;1567  
 t=>c;1644 g=>c;1773 t=>c

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_032264 unedited  
 ATGGGTAGGTGAGGATCCCGAGACTGAGTGAGCTTCTGCGCGCGGTGCTTTTGGGAACGC  
 GGGACTGGCAACCTGCGGCGCCAGGAGCTGGGCCGAGGCGCGCGCGGCTGCGGGCC  
 GCCGTCTGGATGGGAAGTTACGGCGAAGTCCACCCAGCGTTTTCTCAGGCAATCTGAAGGC  
 AAATCTGTTTAGACCCAGGCGAAGGTTCTGGTGACCCAGGCTCTCACCAGCAATTGT  
 CCCTTGCCGTCTCTGAGGGTATCTGGAGCTTCACTGCTGTGTGCTCTTGGCCTCCACA  
 CTGGGGATGCCACTGACTCCCCTGTCCAGGGCTTCCAGTGACTCTCCGAGGCCCTGAT  
 GTAGAAACTTCCCATTGCGGTGCACCAAGAGCAGCCTCACATGGTGTGGGCCGACATCAA  
 GAGCTGCGAGATCCAACAGGGAGCCTTGGGAGGAGCCCGAATCACTGATGGAATCGGACA  
 GTGCATGGAGATGGTTCAGCAGGACGAGGGATCCTAAAGTGCTGCGGNGACTGATCACAT  
 TTTTCTCAACATCCCTGGCCCCACCTTCTGCCACAAACGTCAGCATGGTGGTATCTGC  
 CGGNCCTTGGTCCGGTGAGAAAGCAGAGATGAACATTCTAGAAATCAACAAGAAATCGCG  
 CCCCCAGCTGGCAGAGAACAACAGCAGTTTCAGAAACCTTAAACAGAAATGTCTGTTAC  
 TCAAGTGGCTACTTCTGGCCACCCGAAAATATTGCCACTTTGAGACTGCAAAGACTC  
 ATA

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_032264 unedited  
 NNNTAGCTCTGGACCGCGCGCCGAATCTAGGATCGAGNTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTGGAAAGGCAAAAGTTTTTAAATTGTATAGATTAATAAATTTGGACAAAAATTA  
 AACTCAGGCAGAGAATGTTTTTTTTCAACAACACACTAGCAAAAACAAGGCACAGT  
 AAACATTGAGGCAGAAAGTTCCAGCGTAGAGATATGAATATAATAATAGACACAGGCAG  
 GGATGATTAATAAATGATAAAATGTTTACAGGATGACTGGAATACAGGACATTTCTA  
 CTTTTAAAAACCTCTCCCAAATACTTATCATAAGTAAGGGGTCTCTAAAAGGACAG  
 ATCTCCTAAACCCCTCCTTAACCAAGTAACCAAGTCCCTGATATCATGATAATGCTGATGGA  
 CAAACTAAACCTTCTCTGCCACAGATGGGCTGAGGTTGGAAACTCACAGTATCGACTCT  
 GTAGTGTCTTGTGAAACGTTTAGGCTGAATTAATCATGAAGACATTTTCAGACAAC  
 TCAGAATGTAGACCATTGAGCCAGACAGCTGACCTGTCTCTACAAAAGTCCATGTCA  
 CCACAATCAATGACAACAACAAAAGATGAGGAAATATTTGGGGTTCAAATAACTAAAG  
 AAATGTAGCTACATTATCATTACTTCTTCTGAACCCAAAATATCTCTCCTCCTTTTTGT  
 TGNGAGATTCGGGGNACGTGGACTGTGTGAAGGAGACAGTCAGCTGCTCCTGCTCAGTGT  
 TCTACATTCTGCAGNTGCCTGGGATTACCTNCTATGAAACTCAGGCTAAGCCGTTTCTG  
 CAAGAACTGGCATTGTTATATTCTGCACCCACAGAGTCCCGGTGACATGCTTGTCTCTG  
 CCAGCGCTNCTGACTCCTGTTCTTCAANGATAGAN

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_032264

**Insert Size:** 4100 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](mailto: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\\_032264.2](#), [NP\\_115640.1](#)

**RefSeq Size:** 3783 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 84224

**UniProt ID:** [Q9H094](#)

**Cytogenetics:** 1p36.12

**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. DUF1220 copy number variations in 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, Feb 2013]

**Transcript Variant:** This variant (1) encodes the longest protein (isoform 1). **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.