

## Product datasheet for **RG239977**

### NBPF9 (NM\_001277444) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF9 (NM_001277444) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NBPF9
Synonyms:	AE01
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239977 representing NM_001277444. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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TTGCGCCCCCAGTTGGCAGAGAACAACAGCAGTTCGAAACCTCAAAGAGAGATGTTTTCTAACTCAA
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ATGCTGAGGAATGAGCGACAGTTCAGGAGGAGAAGCTTGAGAGCAGCTGAAGCAAGCTGAGGAGCTC
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GTCGACTCAACTCTCATTGGCTCATCTCTCATGTTGAACGGGAAGATGCTGTACACATTATCCAGAA  
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 TACTTTGAACTACCTGACTCATTCCAGCACTACAGAAGTGTGTTTACTCATTGAGGAACAGCACATC  
 AGCTTCGCCCTTACGTGGACAATAGGTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTGTCCAG  
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**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

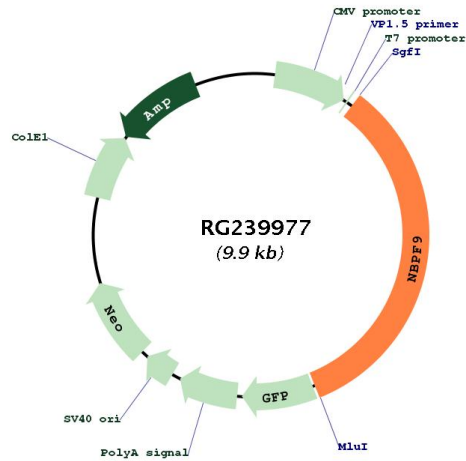
**Protein Sequence:**

>Peptide sequence encoded by RG239977  
 Blue=ORF Red=Cloning site Green=Tag(s)

MVVSAGPWSSEKAEMNILEINEKLRPQLAENKQQFGNPKERCFLTQLAGFLANRQKYYEEDKDLIKF  
 MLRNERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLKEKLREGRDASRSLNEHLQALLTPDEPK  
 SQGQDLQEQLAEGCRLAQHLVQKLSPENDEDEDEDVQVEEDEVKLESSAPREVQKAEESKVAEDSLEEC  
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 GPLSSEKAEMNILEINEKLRPQLAEKKQQFRNLKEKCFLLTLAGFLANQQNKYYEEDKDLIKFMLRNE  
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 LQEQLAEGCRLAQHLVQKLSPENDDDDEDVQIEVAEKVQKSSAPREMQAEEKEVPEDSLEECITYS  
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 EEEVQESWDEGYSTPSIPPEMLASYKSYSSTFHSLEEQQVMAVDIGRHRWDQVKEDQEATGPRLSR  
 ELLDEKPEVLQDSLDRCYSTPSGCLLTDSCQPYRSFYVLEQQRVGLAVDMDEIEKYQEVEEDQDPS  
 CPRLSRELLDEKEPEVLQDSLGRWYSTPSGYLELPDLGQPYSSAVYSLEEQLGLALDLRIKKDQEEE  
 EDQGPVCPRLSRELLVEVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE  
 KKGKGGKRRRRSKKRRRRGRKEEENQPPCPRLSRELLDEKEPEVLQDSLDRCYSTPSGYLELPDLG  
 QPYSSAVYSLEEQLGLALDVDRIKKQEEEEEDQGPVCPRLSRELLVEVEPEVLQDSLDRCYSTPSSCL  
 EQPDSCQPYGSSFYALEEKHVGFSLDVGEIEKKGGKRRRRSKKERRRRGRKEEEDQNPPCPRLNGV  
 LMEVEEPEVLQDSLDCYSTPSMYFELPDSFQHYRSVYFSEEQHISFALYVDNRFFTLTVTSLHLVFQ  
 MEVIFPQ

**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSTRTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV**



**Plasmid Map:**


**ACCN:** NM\_001277444

**ORF Size:** 3333 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).

**RefSeq:** [NM\\_001277444.1](#), [NP\\_001264373.1](#)

**RefSeq Size:** 5034 bp

**RefSeq ORF:** 3336 bp

**Locus ID:** 400818

**UniProt ID:** [P0DPF3](#)

**Cytogenetics:** 1q21.2

**MW:** 128.2 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, Apr 2013]