

Product datasheet for **RG234444**

NBPF3 (NM_001256417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF3 (NM_001256417) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NBPF3
Synonyms:	AE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234444 representing NM_001256417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACTGACTCCCCTGTCCAGGGCTTCCAGTGGACTCTCCGAGGCCCTGATGTAGAACTTCCCCAT
 TCGGTGCACCAAGAGCAGCCTCACATGGTGTGGGCCGACATCAAGAGCTGCGAGATCCAACAGACTATGA
 AGACTGCAAAGACCTCATAAAATCTATGCTGAGGGATGAGCGGCTGCTCACAGAAGAGAAGCTTGCAGAG
 GAGCTCGGGCAAGCTGAGGAGCTCAGGCAATATAAAGTCTGGTCACTCTCAGGAACGAGAGCTGACCC
 AGTTAAGGGAGAAGTTACAGGAAGGGAGAGATGCCTCCCGCTCATTGAATCAGCATCTCCAGGCCCTCT
 CACTCCGGATGAGCCGACAACCTCCAGGGACGGACCTCCGAGAACAGCTGGCTGAGGGATGTAGGCTG
 GCACAGCACCTCGTCCAAAAGCTCAGCCAGAAAATGATGACGATGAGGATGAAGATGTTAAAGTTGAGG
 AGGCTGAGAAAGTACAGGAATTATGCCCCAGGGAGTGCAGAAGGCTGAAGAAAAGGAAGTCCCTGA
 GGACTCACTGGAGGAGTGTCCATCACTTGTTCAAATAGCCACCACCCTTGTGAGTCCAACCAGCCTTAC
 GGAACACCAGAATCACATTTGAGGAAGACCAAGTCGACTCAACTCTATTGACTCATCCTCTCATGATG
 AATGGTTGGATGCTGTATGCATTATCCCAGAAAATGAAAGTGATCATGAGCAAGAGGAAGAAAAAGGGCC
 AGTGTCTCCAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGCCCCCAGGAGTCTGGGATGAAGGTGAT
 TGGACTCTCTCAATTCCTCTGACATGTCTGCCTCATACCAGTCTGACAGGAGCACCTTTCCTCAGTAG
 AGGAACAGCAAGTCGGCTTGGCTCTTGACATAGGCAGACATTGGTGTGATCAAGTGAAAAAGGAGGACCA
 AGAGGCCACAAGTCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGACAGGACTCA
 CTGGATAGATTTTATTCAACTCCTTTGAGTACCTGGAAGTGCCTGACTTATGCCAGCCCTACAGAAGTG
 ACTTTTACTCATTGCAGGAACAACACCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT
 AGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCTCAGCAGAGAGCTGCCGGAGGTAGTAGAGCCTGAG
 GACTTGCAGGACTCACTGGATAGATGGTATTGACTCCTTTTCAAGTATCCAGAAGTGCCTGATTCATGCC
 AGCCCTACGGAAGTTGCTTTTACTCATTGGAGGAAGAACACGTTGGCTTTTCTCTTGACGTGGATGAAAT
 TGAAAAGTACCAAGAAGGGGAAGAAGATCAAAAGCCACCATGCCCCAGGCTCAACGAGGTGCTGATGGAA
 GCAGAAGAGCCTGAAGTCTTGACAGGACTCACTGGATAGATGTTATTGACTACTTCAACTACTTTCAAC
 TACATGCCTCATTCCAGCAGTATAGAAGTGCCTTTTACTCATTGAGGAACAGGACGTGAGCTTGGCCCT
 TGACGTGGACAATAGTTTTTTACTTTGACAGTGATAAGGCACCCTGGCCTTCCAGATGGGAGTCATA
 TTTCCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234444 representing NM_001256417
 Red=Cloning site Green=Tags(s)

MPLTPTVQGFQWTLRGPVETSPFGAPRAASHGVGRHQELRDPTDYEDCKDLIKSMLRDERLLTEEKLAEL
 ELGQAEELRQYKVLVHSQERELTQLREKLQEGRDASRSLNQHLLQALLTPDEPDNSQGRDLREQLAEGCRL
 AQHLVQKLSPENDDEDEDEVDKVEEAQVQELYPREVQKAEKEVPEDSLEECAITCSNSHHPCESNQPY
 GNTRITFEEDQVDSTLIDSSSHDEWLDVAVCIIPENESDHEQEEKGVPVSPRNLQSEEEEEAPQESWDEGD
 WTL SIPPDMASYSQSDRSTFHSVEEQVGLALDIGRHWCDQVKKEDQEATSPRLSRELLDEKEPEVLQDS
 LDRFYSTPFYELPDLCQPYRSDFYSLQEQHLGLALDLDRMKKQDEEEDQGPVPCPRLSRELPEVVEPE
 DLQDSLDRWYSTPFYPELDPDSCQPYGSCFYSLQEQHLGLALDLDRMKKQDEEEDQGPVPCPRLSRELPEVVEPE
 AEPEPEVLQDSLDRCYSTTSTYFQLHASFQYRFAFYFEEQDVSLLALDNDNRFFTLTVIRHHLAFQMGVIFPH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001256417

ORF Size: 1689 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.

RefSeq: [NM_001256417.4](#)

RefSeq Size: 3621 bp

RefSeq ORF: 1692 bp

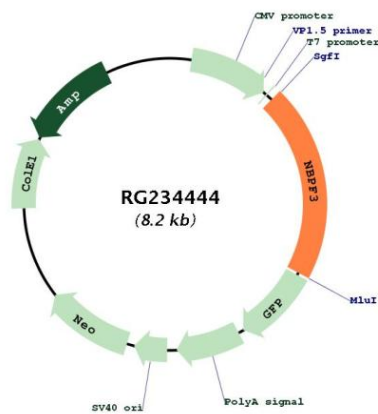
Locus ID: 84224

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]

Product images:


Circular map for RG234444