

Product datasheet for **RG234587**

NBPF3 (NM_001256416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF3 (NM_001256416) 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:

>RG234587 representing NM_001256416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACTGACTCCCCTGTCCAGGGCTTCCAGTGGACTCTCCGAGGCCCTGATGTAGAACTTCCCCAT
 TCGGTGCACCAAGAGCAGCCTCACATGGTGTGGGCCGACATCAAGAGCTGCGAGATCCAACAGTCCCTGG
 CCCCACCTCTTCTGCCACAAACGTGAGCATGGTGGTATCTGCCGCGCCCTGGTCCGGTGAGAAGGCAGAG
 ATGAACATTCTAGAAATCAACAAGAAATCGCGCCCCAGCTGGCAGAGAACAACAGCAGTTCAGAAACC
 TCAAACAGAAATGCTTTGTAAGTCAAGTGGCCTACTTCTGGCCAACCGGCAAAAATAATTACGACTATGA
 AGACTGCAAAGACCTCATAAAATCTATGCTGAGGGATGAGCGGCTGCTCACAGAAGAGAAGCTTGCAGAG
 GAGCTCGGGCAAGCTGAGGAGCTCAGGCAATATAAAGTCTGGTCACTCTCAGGAACGAGAGCTGACCC
 AGTTAAGGGAGAAGTTACAGGAAGGAGAGATGCCTCCCGCTCATTGAATCAGCATCTCCAGGCCCTCT
 CACTCCGGATGAGCCGGACAACCTCCAGGGACGGGACCTCCGAGAACAGCTGGCTGAGGGATGTAGGCTG
 GCACAGCACCTCGTCCAAAAGCTCAGCCAGAAAATGATGACGATGAGGATGAAGATGTTAAAGTTGAGG
 AGGCTGAGAAAAGTACAGGAATTATATGCCCCAGGGAGGTGCAGAAGGCTGAAGAAAAGGAAGTCCCTGA
 GGACTCACTGGAGGAGTGTGCCATCACTTGTTCAAATAGCCACCACCCTTGTGAGTCCAACCAGCCTTAC
 GGGAACACCAGAAATCACATTTGAGGAAGACCAAGTCGACTCAACTCTCATTGACTCATCCTCTCATGATG
 AATGGTTGGATGCTGTATGCATTATCCCAGAAAATGAAAGTGATCATGAGCAAGAGGAAGAAAAAGGGCC
 AGTGTCTCCAGATCATCTGGAAGGTTTTGTTGTCTAATCTCTGTTGGTTATATCTTCTGTCATCCCTGT
 CCTGCCTGGCTCATCAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGCCCCCAGGAGTCTGGGATGAAG
 GACATTTGGTGTGATCAAGTGAAAAGAGGACCAAGAGGCCACAAGTCCCAGGCTCAGCAGGGAGCTGCT
 GGATGAGAAAAGAGCCTGAAGTCTTGCAGGACTCACTGGATAGATTTTATTCAACTCCTTTTGAGTACCTG
 GAACTGCCTGACTTATGCCAGCCCTACAGAAGTGACTTTTACTCATTGCAGGAACAACACCTTGGCTTGG
 CTCTTGACTTGGACAGAAATGAAAAGGACCAAGAAGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCT
 CAGCAGAGAGCTGCCGGAGGTAGTAGAGCCTGAGGACTTGCAGGACTCACTGGATAGATGGTATTCGACT
 CCTTTCAGTTATCCAGAAGTGCCTGATTATGCCAGCCCTACGGAAGTTGCTTTTACTCATTGGAGGAAG
 AACACGTTGGCTTTTCTTGTGCTGGATGAAATTGAAAAGTACCAAGAAGGGGAAGAAGATCAAAAGCC
 ACCATGCCCCAGGCTCAACGAGGTGCTGATGGAAGCAGAAGAGCCTGAAGTCTTGCAGGACTCACTGGAT
 AGATGTTATTCGACTACTTCAACTTACTTTCAACTACATGCCTCATTCCAGCAGTATAGAAGTGCCTTTT
 ACTCATTTGAGGAACAGGACGTCAGCTTGGCCCTTGCAGTGGACAATAGTTTTTACTTTGACAGTGTAT
 AAGGCACCACCTGGCCTTCCAGATGGGAGTCATATTCCCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234587 representing NM_001256416
 Red=Cloning site Green=Tags(s)

MPLTPTVQGFQWTLRGPDVETSPFGAPRAASHGVGRHQELRDPTVPGPTSSATNVSMVVSAGPWSGEKAE
 MNILEINKSRPQLAENKQFRNLKQKLVTVQVAYFLANRQNNYDYEDCKDLIKSMLRDERLLTEEKLAEL
 ELGQAEELRQYKVLVHSQERELTQLREKLQEGRDASRSLNQLQALLTPDEPDNSQGRDLREQLAEGCRL
 AQHLVQKLSPENDDEDEDVKVEEAKEVQELYAPREVQKAEKEVPEDSLEECAITCSNSHHPCESNQPY
 GNTRITFEEDQVDSTLIDSSSHDEWLDVAVCIIPENESDHEQEEKGPVSPRSSGRFCCLISVGYIFCHPC
 PAWLIRNLQESSEEEAPQESWDEGHWCQVKKEDQEATSPRLSRELLDEKEPEVLQDSLDRFYSTPFEYL
 ELPDLCPYRSDFYSLQEQLGLALDLDRMKKQDEEEDQGPPCPRLSRELPEVVEPEDLQSLDRWYST
 PFSYPELPDSCQPYGSCFYSLLEEHVGFSLDVDEIEKYQEGEEDQKPPCPRLNEVLEAEEPEVLQDSL
 RCYSTTSTYFQLHASFQQYRSFYFEEQDVSLALDVDNRFFTLTVIRHHLAFQMGVIFPH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001256416

ORF Size: 1863 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_001256416.4](#)

RefSeq Size: 3795 bp

RefSeq ORF: 1866 bp

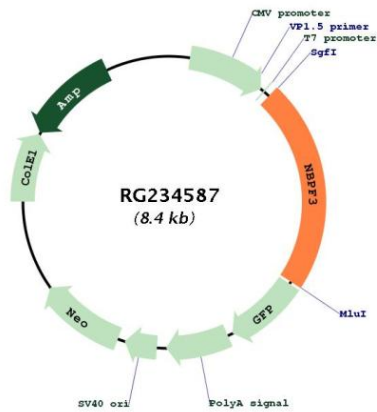
Locus ID: 84224

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 RG234587