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Product datasheet for RG215220

NBPF3 (NM_032264) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBPF3 (NM_032264) 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)

View online »

ORF Nucleotide Sequence:

>RG215220 representing NM_032264
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACTGACTCCCACTGTCCAGGGCTTCCAGTGGACTCTCCGAGGCCCTGATGTAGAAACTTCCCCAT
TCGGTGCACCAAGAGCAGCCTCACATGGTGTGGGCCGACATCAAGAGCTGCGAGATCCAACAGTCCCTGG
CCCCACCTCTTCTGCCACAAACGTCAGCATGGTGGTATCTGCCGGCCCTTGGTCCGGTGAGAAGGCAGAG
ATGAACATTCTAGAAATCAACAAGAAATCGCGCCCCCAGCTGGCAGAGAACAAACAGCAGTTCAGAAACC
TCAAACAGAAATGTCTTGTAACTCAAGTGGCCTACTTCCTGGCCAACCGGCAAAATAATTACGACTATGA
AGACTGCAAAGACCTCATAAAATCTATGCTGAGGGATGAGCGGCTGCTCACAGAAGAGAAGCTTGCAGAG
GAGCTCGGGCAAGCTGAGGAGCTCAGGCAATATAAAGTCCTGGTTCACTCTCAGGAACGAGAGCTGACCC
AGTTAAGGGAGAAGTTACAGGAAGGGAGAGATGCCTCCCGCTCATTGAATCAGCATCTCCAGGCCCTCCT
CACTCCGGATGAGCCGGACAACTCCCAGGGACGGGACCTCCGAGAACAGCTGGCTGAGGGATGTAGGCTG
GCACAGCACCTCGTCCAAAAGCTCAGCCCAGAAAATGATGACGATGAGGATGAAGATGTTAAAGTTGAGG
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GGACTCACTGGAGGAGTGTGCCATCACTTGTTCAAATAGCCACCACCCTTGTGAGTCCAACCAGCCTTAC
GGGAACACCAGAATCACATTTGAGGAAGACCAAGTCGACTCAACTCTCATTGACTCATCCTCTCATGATG
AATGGTTGGATGCTGTATGCATTATCCCAGAAAATGAAAGTGATCATGAGCAAGAGGAAGAAAAAGGGCC
AGTGTCTCCCAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGCCCCCCAGGAGTCCTGGGATGAAGGTGAT
TGGACTCTCTCAATTCCTCCTGACATGTCTGCCTCATACCAGTCTGACAGGAGCACCTTTCACTCAGTAG
AGGAACAGCAAGTCGGCTTGGCTCTTGACATAGGCAGACATTGGTGTGATCAAGTGAAAAAGGAGGACCA
AGAGGCCACAAGTCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACTCA
CTGGATAGATTTTATTCAACTCCTTTTGAGTACCTGGAACTGCCTGACTTATGCCAGCCCTACAGAAGTG
ACTTTTACTCATTGCAGGAACAACACCTTGGCTTGGCTCTTGACTTGGACAGAATGAAAAAGGACCAAGA
AGAGGAAGAAGACCAAGGCCCACCATGCCCCAGGCTCAGCAGAGAGCTGCCGGAGGTAGTAGAGCCTGAG
GACTTGCAGGACTCACTGGATAGATGGTATTCGACTCCTTTCAGTTATCCAGAACTGCCTGATTCATGCC
AGCCCTACGGAAGTTGCTTTTACTCATTGGAGGAAGAACACGTTGGCTTTTCTCTTGACGTGGATGAAAT
TGAAAAGTACCAAGAAGGGGAAGAAGATCAAAAGCCACCATGCCCCAGGCTCAACGAGGTGCTGATGGAA
GCAGAAGAGCCTGAAGTCTTGCAGGACTCACTGGATAGATGTTATTCGACTACTTCAACTTACTTTCAAC
TACATGCCTCATTCCAGCAGTATAGAAGTGCCTTTTACTCATTTGAGGAACAGGACGTCAGCTTGGCCCT
TGACGTGGACAATAGGTTTTTTACTTTGACAGTGATAAGGCACCACCTGGCCTTCCAGATGGGAGTCATA
TTCCCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

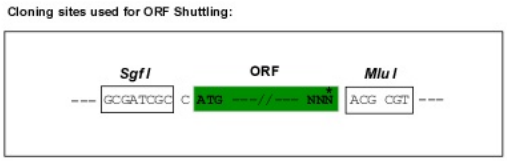
>RG215220 representing NM_032264
Red=Cloning site Green=Tags(s)

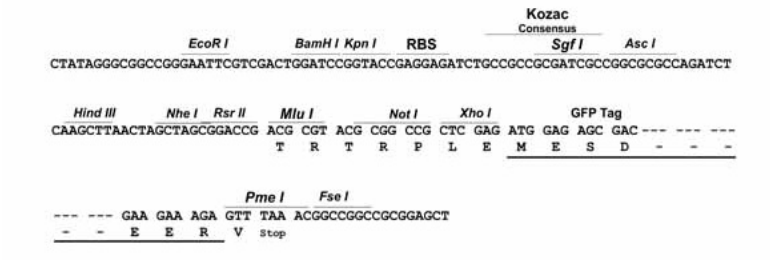
MPLTPTVQGFQWTLRGPDVETSPFGAPRAASHGVGRHQELRDPTVPGPTSSATNVSMVVSAGPWSGEKAE
MNILEINKKSRPQLAENKQQFRNLKQKCLVTQVAYFLANRQNNYDYEDCKDLIKSMLRDERLLTEEKLAE
ELGQAEELRQYKVLVHSQERELTQLREKLQEGRDASRSLNQHLQALLTPDEPDNSQGRDLREQLAEGCRL
AQHLVQKLSPENDDDEDEDVKVEEAEKVQELYAPREVQKAEEKEVPEDSLEECAITCSNSHHPCESNQPY
GNTRITFEEDQVDSTLIDSSSHDEWLDAVCIIPENESDHEQEEEKGPVSPRNLQESEEEEAPQESWDEGD
WTLSIPPDMSASYQSDRSTFHSVEEQQVGLALDIGRHWCDQVKKEDQEATSPRLSRELLDEKEPEVLQDS
LDRFYSTPFEYLELPDLCQPYRSDFYSLQEQHLGLALDLDRMKKDQEEEEDQGPPCPRLSRELPEVVEPE
DLQDSLDRWYSTPFSYPELPDSCQPYGSCFYSLEEEHVGFSLDVDEIEKYQEGEEDQKPPCPRLNEVLME
AEEPEVLQDSLDRCYSTTSTYFQLHASFQQYRSAFYSFEEQDVSLALDVDNRFFTLTVIRHHLAFQMGVI
FPH

TRTRPLE - GFP Tag - V

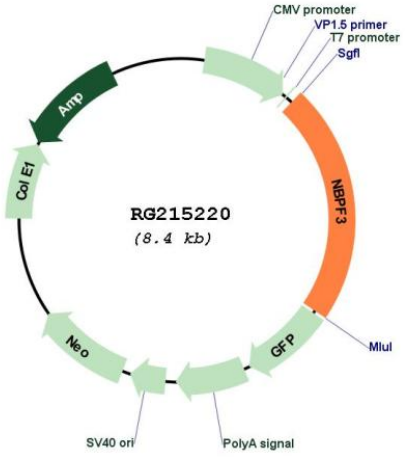
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN: NM_032264

ORF Size: 1899 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 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
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_032264.6
RefSeq Size:	3793 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]