

Product datasheet for **RG224826**

NeuN (RBFOX3) (NM_001082575) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NeuN (RBFOX3) (NM_001082575) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBFOX3
Synonyms:	FOX-3; FOX3; HRNBP3; NEUN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224826 representing NM_001082575 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCCCTACCCCCCGCCAGTACCCCTCCGCCACAGAACGGCATCCCTGCCGAGTACGCC
CGCCCCACCGCACCCACGCAGGACTACTCGGCCAGACCCCGTCCCCACAGAGCATGGCATGACCC
GTACACACCAGCACAGACCCACCCGAGCAGCCAGGCTCCGAGGCCAGCACAGCCCATCGCCGGGACC
CAGACAGTCCCGCAGACAGACGAGGCGGCACAGACGGACAGCCAGCCGCTCCACCCCTCCGACCCTACG
AGAAGCAGCAGCCAAGCGGCTACAGTCTCCAACATCCCCTCCGGTTCAGGGACCCCGACTTGCGGCA
AATGTTTCGGCAATTCGAAAAATTTAGACGTGGAGATCATTTTTAACGAGCGGGCTCCAAGGTTTT
GGGTTTGAACTTTTGAACTAGCTCAGATGCTGACCGAGCCCGGAGAAGCTGAATGGGACGATCGTAG
AGGGACGGAAAATTGAGGTCAATAATGCCACGGCCGAGTGATGACCAACAAGAAGACGGGGAACCCCTA
CACCAACGGCTGGAAGCTAAATCCAGTGGTCGGCAGTCTACGGCCTGAATTCATGCAGTGACGGG
TTCCCCTACCCACCACCGGCACAGCCGTTGCCTACGGGGCGCACATCTTCGGGGCCGGGGCCGGCCG
TGTATAATACATTCGGGCTGCGCCACCCACCCCATCCCGACTTACGGAGCGGTCTGTATCAGGA
TGGATTTTATGGTGTGAGATTTATGGAGGCTACGCAGCCTACAGATACGCTCAGCCCGTGCAGCGCCG
GCAGCCTACAGCGACAGTTACGGCAGAGTCTACGCAGCTGCCGACCCGTACCATCACACCATCGGGCCCG
CGCGACCTACAGCATTGGAACCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224826 representing NM_001082575
Red=Cloning site Green=Tags(s)

MAQYPYPPAQYPPPPQNGIPAEYAPPPPHPTQDYSGQTPVPTEHGMLTYTPAQTHPEQPGSEASTQPIAGT
 QTVPQTDEAAQTD SQPLHSPDTEKQPKRLHVSNI PFRFRDPLRQMFQFGKILDVEIIFNERGSKGF
 GFVTFETSSDADRAREKLNGTIVEGRKIEVNNATARVMTNKKTGPNPYTNGWKLNPVVGAVYGPEFYAVTG
 FPYPPTGTAVAYRGAHLRGRGRAVYNTFRAAPPPPIPTYGAVVYQDGFYGAIEYGGYAA YRYAQPAAAA
 AAYSDSYGRVYAAADPYHHTIGPAATYSIGTM

TRTRPLE - GFP Tag - V

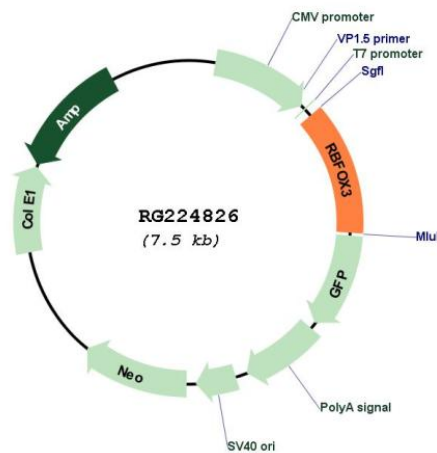
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001082575

ORF Size: 936 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_001082575.2</p>
RefSeq Size:	<p>2696 bp</p>
RefSeq ORF:	<p>939 bp</p>
Locus ID:	<p>146713</p>
UniProt ID:	<p>A6NFN3</p>
Cytogenetics:	<p>17q25.3</p>
Gene Summary:	<p>This gene encodes a member of the RNA-binding FOX protein family which is involved in the regulation of alternative splicing of pre-mRNA. The protein has an N-terminal proline-rich region, an RNA recognition motif (RRM) domain, and a C-terminal alanine-rich region. This gene produces the neuronal nuclei (NeuN) antigen that has been widely used as a marker for post-mitotic neurons. This gene has its highest expression in the central nervous system and plays a prominent role in neural tissue development and regulation of adult brain function. Mutations in this gene have been associated with numerous neurological disorders. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2017]</p>