

Product datasheet for **RC224826**

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:	Myc-DDK
Symbol:	NeuN
Synonyms:	FOX-3; FOX3; HRNBP3; NEUN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224826 representing NM_001082575 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCAGCCCTACCCCCCGCCAGTACCCCTCCGCCACAGAACGGCATCCCTGCCGAGTACGCC
CGCCCCACCGCACCCACGCAGGACTACTCGGCCAGACCCGGTCCCCACAGAGCATGGCATGACCT
GTACACACCAGCACAGACCCACCCGAGCAGCCAGGCTCCGAGGCCAGCACAGCCCATCGCCGGGACC
CAGACAGTGCCGAGACAGACGAGGCGGCACAGCGGACAGCCGCTCCACCCCTCCGACCCTACAG
AGAAGCAGCAGCCAAGCGGCTACACGTCTCAACATCCCCTTCGGTTTCAGGGACCCGACTTGCGGCA
AATGTTTCGGCAATTCGGAATAATTTAGACGTGGAGATCATTTTAAACGAGCGGGCTCCAAGGTTTT
GGGTTTGAACTTTGAAGTAGCTCAGATGCTGACCGAGCCCGGAGAAAGCTGAATGGGACGATCGTAG
AGGGACGGAATTTGAGGTCAATAATGCCACGGCCGAGTGATGACCAACAAGAAGACGGGGAACCCCTA
CACCAACGGCTGGAAGCTAAATCCAGTGGTCGGCGCAGTCTACGGGCCTGAATTCATGCACTGACGGG
TTCCCTACCCACACCGGCACAGCCGTTGCCTACGGGGCGCACATCTTCGGGGCCGGGGCCGGCCG
TGTATAATACATTTTCGGGCTGCCACCCCCACCCCATCCCGACTTACGGAGCGGTCTGTATCAGGA
TGGATTTTATGGTGCTGAGATTTATGGAGGCTACGCAGCTACAGATACGCTCAGCCGCTGCAGCGCG
GCAGCTACAGCAGATTACGCAGAGTCTACGCAGCTGCCGACCGTACCATCACACCATCGGGCCCG
CGCGACCTACGCATTGGAACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224826 representing NM_001082575
 Red=Cloning site Green=Tags(s)

MAQPYPPAQYPPPPQNGIPA EYAPPPPHPTQDYSGQTPVPTEHGMLTYTPAQTHPEQPGSEASTQPIAGT
 QTVPQTDEAAQTDSQPLHPSDPTKQPKRLHVSNI PFRFRDPLRQMGQFGKILDVEIIFNERGSKGF
 GFVTFETSSDADRAREKLNGTIVEGRKIEVNNAT ARVMTNKKTGPNYTNGWKLNPVVGAVYGPEFYAVTG
 FPYPPTGTAVAYRGAHLRGRGRAVYNTFRAAPPPPI PTYGAVVYQDGFYGAEIYGGYAAYRYAQPAAAA
 AAYSDSYGRVYAAADPYHHTIGPAATYSIGTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8044_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001082575

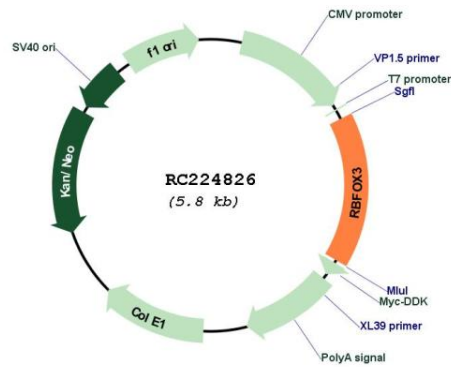
ORF Size: 936 bp

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.

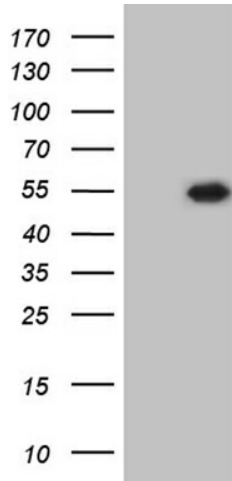
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001082575.2
RefSeq Size:	2696 bp
RefSeq ORF:	939 bp
Locus ID:	146713
UniProt ID:	A6NFN3
Cytogenetics:	17q25.3
MW:	33.7 kDa
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>

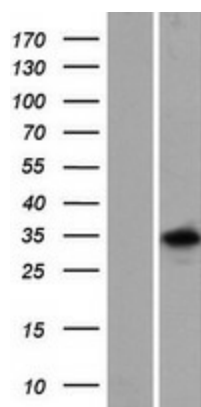
Product images:



Circular map for RC224826



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RBFox3 (Cat# RC224826, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RBFox3 (1:2000) (Cat# [TA809952]). Positive lysates [LY421190] (100ug) and [LC421190] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421190]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224826 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).