

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RG224996

## Neurogranin (NRGN) (NM\_001126181) Human Tagged ORF Clone

## **Product data:**

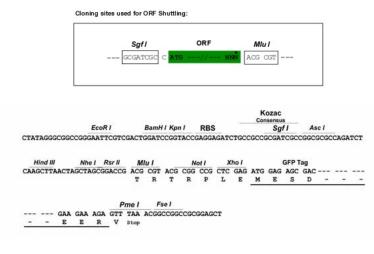
Product Type:	Expression Plasmids
Product Name:	Neurogranin (NRGN) (NM_001126181) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRGN
Synonyms:	hng; RC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RG224996 representing NM_001126181 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGACTGCTGCACCGAGAACGCCTGCTCCAAGCCGGACGACGACATTCTAGACATCCCGCTGGACGATC CCGGCGCCAACGCGGCCGCCGCCAAAATCCAGGCGAGTTTTCGGGGCCACATGGCGCGGGAAGAAGATAAA GAGCGGAGAGCGCGGCCGGAAGGGCCCGGGCCCTGGGGGGCCTGGCGGAGCTGGGGTGGCCCGGGGAGGC GCGGGCGGCGGCCCCAGCGGAGAC
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG224996 representing NM_001126181 <mark>Red</mark> =Cloning site Green=Tags(s)
	MDCCTENACSKPDDDILDIPLDDPGANAAAAKIQASFRGHMARKKIKSGERGRKGPGPGGPGGAGVARGG AGGGPSGD
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



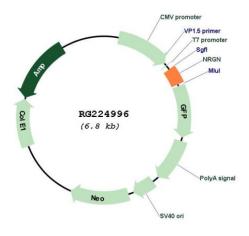
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#### **Cloning Scheme:**



Plasmid Map:



ACCN:	
ORF Size:	
OTI Disclaimer:	

NM\_001126181

### 234 bp

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. <u>More info</u>

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	granin (NRGN) (NM_001126181) Human Tagged ORF Clone – RG224996
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 001126181.2</u>
RefSeq Size:	1238 bp
RefSeq ORF:	237 bp
Locus ID:	4900
UniProt ID:	<u>Q92686</u>
Cytogenetics:	11q24.2
Protein Families:	Druggable Genome
Gene Summary:	Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and exons 3 and 4 contain untranslated sequences. It is suggested that the NRGN is a direct target for thyroid hormone in human brain, and that control of expression of this gene could underlay many of the consequences of hypothyroidism on mental states during development as well as in adult subjects. [provided by RefSeq, Jul 2008]

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