NRGN cDNA

Catalog Number: ATGD0219

PRODUCT INFORMATION

Catalog number
ATGD0219

Product type
cDNA

Species
Human

NCBI Accession No.
NP_001119653.1

Alternative Names
Neurogranin, NRGN, HNG, RC3

mRNA Refseq
NM_001126181.1

OMIM
602350

Chromosome location
11q24

PRODUCT SPECIFICATION

Formulation
Lyophilized

Storage
Store the plasmid at -20C.

cDNA Size
237bp

Preparation before usage
1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
Each tube contains approximately 10ug of lyophilized plasmid.

Vector description
This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector
pATGen (puc19-derived cloning vector)

General Description

NRGN cDNA

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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.

DATA

Sequence nucleotides

ATGGACTGCTGCACCGAGAACGCCTGCTCCAAGCCGGACGACGACATTCTAGACATCCCGCTGGACGATCCCGGCGCCAA
CGCGGCCGCCGCCAAAATCCAGGCGAGTTTTCGGGGCCACATGGCGCGGAAGAAGATAAAGAGCGGAGAGCGCGGCCGG
AAGGGCCCGGGCCCTGGGGGGCCTGGCGGAGCTGGGGTGGCCCGGGGAGGCGCGGGCGGCGGCCCCAGCGGAGACTA
G

Transaction Sequence

MDCCTENACS KPDDDILDIP LDDPGANAAA AKIQASFRGH MARKKIKSGE RGRKGPGPGG PGGAGVARGG AGGGPSGD