

## Product datasheet for **RC224996**

### 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:** Myc-DDK  
**Symbol:** Neurogranin  
**Synonyms:** hng; RC3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC224996 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGGACTGCTGCACCGAGAACGCCTGCTCCAAGCCGGACGACGACATTCTAGACATCCCGCTGGACGATC**  
**CCGGCGCCAACGCGGCCGCCAAAATCCAGGCGAGTTTTCGGGGCCACATGGCGCGGAAGAAGATAAA**  
**GAGCGGAGAGCGCGCCGGAAGGCCCGGGCCCTGGGGGCTGGCGGAGCTGGGTGGCCGGGGAGGC**  
**GCGGGCGCGGCCCCAGCGGAGAC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC224996 protein sequence  
Red=Cloning site Green=Tags(s)  
  
MDCCTENACSKPDDDDILDIPLDDPGANAAAQIQAQASFRGHMARKKIKSGERGRKGPGGPGGAGVARGG  
AGGGPSGD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6143\\_b06.zip](https://cdn.origene.com/chromatograms/mk6143_b06.zip)

**Restriction Sites:** Sgfl-MluI



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UniProt ID: [Q92686](#)

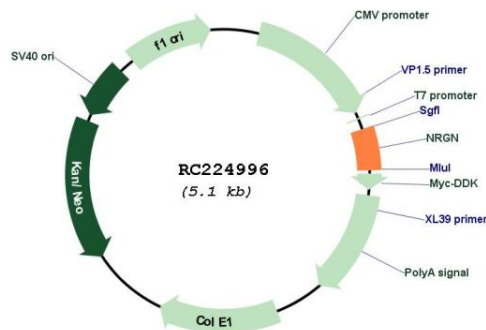
Cytogenetics: 11q24.2

Protein Families: Druggable Genome

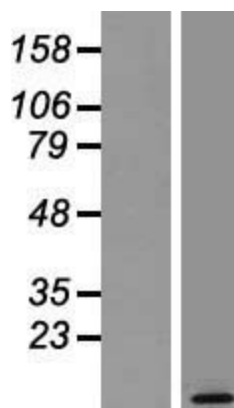
MW: 7.6 kDa

**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]

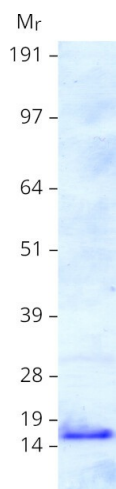
### Product images:



Circular map for RC224996



Western blot validation of overexpression lysate (Cat# [LY426667]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224996 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NRGN protein (Cat# [TP324996]). The protein was produced from HEK293T cells transfected with NRGN cDNA clone (Cat# RC224996) using MegaTran 2.0 (Cat# [TT210002]).