

Product datasheet for RC201209

Neurogranin (NRGN) (NM_006176) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Neurogranin (NRGN) (NM_006176) 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: >RC201209 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTGCTGCACCGAGAACGCCTGCTCCAAGCCGGACGACGACATTCTAGACATCCCGCTGGACGATC
CCGGCGCCAACGCGGCCCGCCAAAATCCAGGCGAGTTTTCGGGGCCACATGGCGCGGAAGAAGATAAA
GAGCGGAGAGCGCGCCGGAAGGGCCCGGGCCCTGGGGGCTGGCGGAGCTGGGTGGCCGGGGAGGC
GCGGGCGCGGCCCCAGCGGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201209 protein sequence
Red=Cloning site Green=Tags(s)
MDCCTENACSKPDDDILDIPLDDPGANAAAQIQASFRGHMARKKIKSGERGRKGPGGPGGAGVARGG
AGGGPSGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6143_b06.zip

Restriction Sites: Sgfl-Mlul

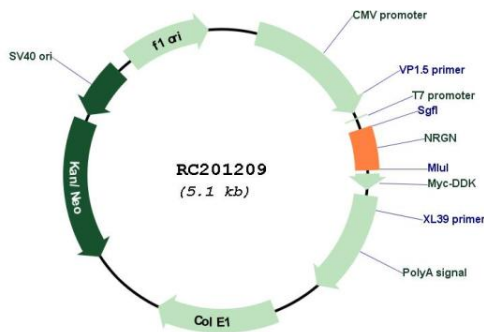


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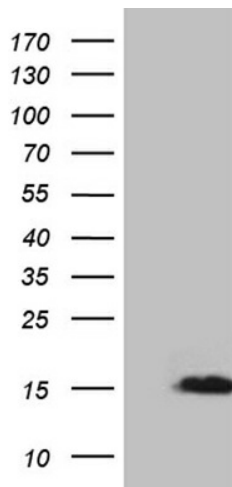
RefSeq ORF: 237 bp
Locus ID: 4900
UniProt ID: [Q92686](#)
Cytogenetics: 11q24.2
Domains: IQ
Protein Families: Druggable Genome
MW: 7.6 kDa

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]

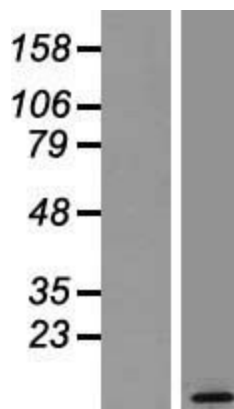
Product images:



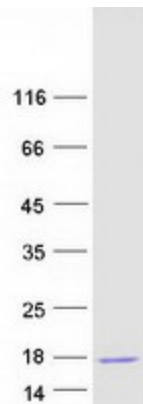
Circular map for RC201209



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NRGN (Cat# RC201209, 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-NRGN (1:500) (Cat# [TA811753]). Positive lysates [LY416815] (100ug) and [LC416815] (20ug) can be purchased separately from OriGene.



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# [TP301209]). The protein was produced from HEK293T cells transfected with NRGN cDNA clone (Cat# RC201209) using MegaTran 2.0 (Cat# [TT210002]).