

## Product datasheet for TP301209

### Neurogranin (NRGN) (NM\_006176) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human neurogranin (protein kinase C substrate, RC3) (NRGN), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201209 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MDCCTENACSKPDDDILDIPLDDPGANAAAAKIQASFRGHMARKKIKSGERGRKGPGPGGGAGVARG G AGGGPSGD  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Predicted MW:	7.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	ELISA standard (PMID: <a href="#">29250027</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_006167</a>
Locus ID:	4900


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UniProt ID: [Q92686](#)

RefSeq Size: 1235

Cytogenetics: 11q24.2

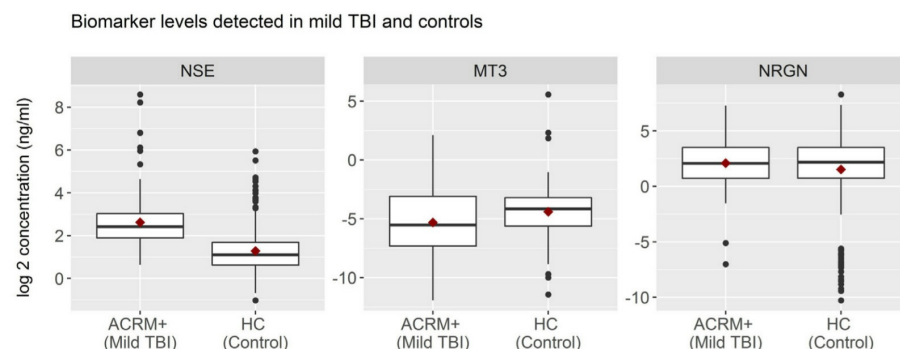
RefSeq ORF: 234

Synonyms: hng; RC3

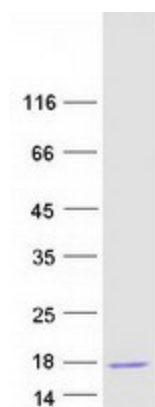
**Summary:** Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and 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]

**Protein Families:** Druggable Genome

## Product images:



Distribution of biomarker concentrations in mild traumatic brain injury (mTBI) and healthy control subjects were measured by a sandwich immunoassay with electrochemiluminescence detection. Box plots show log<sub>2</sub>-transformed detected serum levels for the American Congress of Rehabilitation Medicine-defined (ACRM+) mTBI patients versus healthy controls. The horizontal black lines represent the median of each distribution; red diamonds indicate the mean for the subgroup. Black dots are individual patients with values 1.5 times beyond the interquartile range and are, therefore, outliers. NRGN protein from OriGene (TP301209) was used to generate a standard curve relating analyte concentration to luminescent signal. Figure cited from Front Neurol, PMID: 29250027



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]).