

## Product datasheet for **RC230506**

### Neuroigin 3 (NLGN3) (NM\_001166660) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 3 (NLGN3) (NM_001166660) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuroigin 3
Synonyms:	HNL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230506 representing NM\_001166660  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTGCGGCTTGGCCCGCCTCGTGTCCCTGAGCCCCAAGCCACGGTTGGCAGGAGCCTGTGCC  
 TCACCCTGTGTTCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACTCA  
 CTTTGGGAAGCTAAGGGGTGCCCGAGTACCACTGCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTG  
 GGGGTGCCCTACGCAGCTCCCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCAACCCCATCCTGGT  
 CGGGCATCCGGAACGCCACACACTTTCCCCAGTGTGCCCCAGAACATCCACACAGCTGTGCCGAAGT  
 CATGCTGCCGGTCTGGTCACTGCCAATTGGATATCGTCGCTACTTACATCCAGGAGCCCAACGAAGAC  
 TGTCTCTACCTGAACGTCTATGTCCGACGGAGGATGACATCCGGGACAGTGGTCTAAACCCGTCATGG  
 TCTACATCCACGGAGGCTTACATGGAAGGGACAGGCAACATGATTGATGGCAGCATCCTCGCCAGTTA  
 TGGCAATGTCATGTCATCACCCCTCAACTATCGGGTTGGAGTGTAGGTTTCTGAGTACTGGAGATCAG  
 GCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATATTGCC  
 TCTTCGGGGGAGACCCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCTCCT  
 CACGTTGTACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGC  
 TGGGCTGTGAACTACCAACCAAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTCTGG  
 ACACCGTGGATATGGTGGACTGTCTTCGGCAAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCC  
 AGCCCCGTACCACGTGGCCTTTGGCCCTGTGATTGATGGTGATGTCATTCCTGATGACCCGTGAGTCCCT  
 ATGGAGCAGGGCGAGTTCCTCAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTG  
 TGAAGGGGTGGTGGACCCTGAGGATGGTGTCTCTGGCACTGACTTTGACTATTCGCTCCAATTTTGT  
 GGACAATCTGTATGGCTATCCTGAGGGTAAGGACACCCTGCGAGAGACCATCAAGTTCATGTATACAGAC  
 TGGGCAGACCGTGACAACCCTGAGACCCGCCGTAACAACTGGTGGCACTCTTCACTGACCAACAGTGGG  
 TGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTACGGCTCGCCTACCTACTTCTACGCCTTCTA  
 TCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGATGCAGCTCATGGGGATGAAGTACCCTATGTT  
 TTTGGGGTTCTATGGTAGGCCCACTGACCTTTTCCCTGCAACTTCTCCAAGAATGATGTTATGCTCA  
 GTGCTGTCGTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAAGCCGGTCCCCCAGGA  
 CACCAAGTTCATTCACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATAACAATCCCCGAGAC  
 CAGCTCTACCTTCACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGCCTTTT  
 GGAAACATCTGGTGCCCCACCTATAACAACCTGCATGACATGTTCCACTATACGTCCACCACCACCAAGT  
 GCCGCCTCCGGATACCACCCACAGCTCCACATACCCCGAGGCCAATGGCAAGACCTGGAGCACCAAG  
 CGGCCAGCCATCTCACCTGCCTACAGCAACGAGAATGCCAGGGGTCTGGAACGGGGACCAGGATGCAG  
 GGCCACTCCTGGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGCCCTC  
 CCTCCTGTTCTTAACGTTCTGGCCTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCC  
 CTGCGGCAGCCTAGCCCTCAGCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGG  
 CAGCATTAAACTGGGCCCCACCACACGAGTGTGAGGCCGGTCCCCCATGACACGCTGCGCCTCAC  
 TGCAATGCCCAGACTACACCTGACCCCTGCGGCGCTCCCCGGATGACATCCCACTCATGACCCCCAACCC  
 ATCACTATGATCCCCAACTCCCTGGTAGGGCTGCAGACATTGCACCCCTATAACACCTTTGCCGACGGGT  
 TCAACAGTACCGGGCTGCCCCACTCACTCCACTACCCGGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230506 representing NM\_001166660  
Red=Cloning site Green=Tags(s)

MWLRRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQYL  
GVPYAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNED  
CLYLNVYVPTEDDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITLNYRVGLGFLSTGDQ  
AAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTLSSHSEGLFQRAIIQSGSALSS  
WAVNYQPVKYTSLLADKVGCVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEIL  
MEQGEFLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTD  
WADRDNPETRRKTLVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYV  
FGVPMVGPTDLFPCNFSKNDVMLSAVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRD  
QLYLHIGLKPRVRDHYRATKVAFWKHLVPHLYNLHDMFHYSSTTKVPPPDTTHSSHITRRPNGKTWSTK  
RPAISPAYSNENAGQSWNGDQDAGPLLVENPRDYSTELESVTIIVGASLLFLNVLAFALYYRKDKRRQEP  
LRQPSPQRGAGAPELGAAPEEELAAALQLGPTHHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNT  
ITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHSTTRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166660

**ORF Size:** 2424 bp

**OTI Disclaimer:** 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. [More info](#)

**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:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. 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.

**RefSeq:** [NM\\_001166660.1](#), [NP\\_001160132.1](#)

**RefSeq ORF:** 2427 bp

**Locus ID:** 54413

**UniProt ID:** [Q9NZ94](#)

**Cytogenetics:** Xq13.1

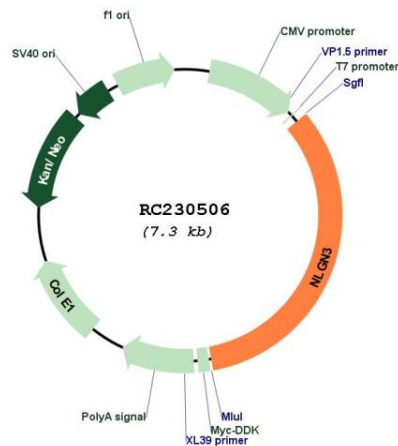
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs)

**MW:** 90 kDa

**Gene Summary:** This gene encodes a member of a family of neuronal cell surface proteins. Members of this family may act as splice site-specific ligands for beta-neurexins and may be involved in the formation and remodeling of central nervous system synapses. Mutations in this gene may be associated with autism and Asperger syndrome. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Oct 2009]

### Product images:



Circular map for RC230506