

## Product datasheet for **RG230506**

### 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:	TurboGFP
Symbol:	Neuroigin 3
Synonyms:	HNL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230506 representing NM\_001166660  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTGCGGCTTGGCCCGCCCTCGTGTCCCTGAGCCCCAAGCCACGGTTGGCAGGAGCCTGTGCC  
 TCACCCTGTGTTCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACTCA  
 CTTTGGGAAGCTAAGGGGTGCCCGAGTACCACTGCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTG  
 GGGGTGCCCTACGCAGCTCCCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCACCCCATCTGGT  
 CGGGCATCCGGAACGCCACACACTTTCCCCAGTGTGCCCCAGAACATCCACACAGCTGTGCCGAAGT  
 CATGCTGCCGGTCTGGTCACTGCCAATTGGATATCGTCGCTACTTACATCCAGGAGCCCAACGAAGAC  
 TGTCTCTACCTGAACGTCTATGTCCGACGGAGGATGACATCCGGGACAGTGGTGTAAACCCGTCATGG  
 TCTACATCCACGGAGGCTTACATGGAAGGGACAGGCAACATGATTGATGGCAGCATCTCGCCAGTTA  
 TGGCAATGTCATGTCATCACCCCTCAACTATCGGGTTGGAGTGTAGGTTTCTGAGTACTGGAGATCAG  
 GCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATATTGCC  
 TCTTCGGGGGAGACCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCCTCT  
 CACGTTGTACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTGTGCCAGC  
 TGGGCTGTGAACTACCAACCAAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTCTGG  
 ACACCGTGGATATGGTGGACTGTCTTCGGCAAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCC  
 AGCCCCGTACCACGTGGCCTTTGGCCCTGTGATTGATGGTGATGTCATTCTGATGACCCGTGAGTCCCT  
 ATGGAGCAGGGCGAGTTCCTCAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTG  
 TGAAGGGGTGGTGGACCTGAGGATGGTGTCTCTGGCACTGACTTTGACTATTCGCTCCAATTTTGT  
 GGACAATCTGTATGGCTATCCTGAGGGTAAGGACACCCTGCGAGAGACCATCAAGTTCATGTATACAGAC  
 TGGGCAGACCGTGACAACCCTGAGACCCCGCTAAAACACTGGTGGCACTCTTCACTGACCACCAAGTGGG  
 TGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTACGGCTCGCCTACCTACTTCTACGCCTTCTA  
 TCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGATGCAGCTCATGGGGATGAAGTACCCTATGTT  
 TTTGGGGTTCTATGGTAGGCCCACTGACCTTTTCCCTGCAACTTCTCCAAGAATGATGTTATGCTCA  
 GTGCTGTCGTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAAGCCGGTCCCCCAGGA  
 CACCAAGTTCATTCACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATAACAATCCCCGAGAC  
 CAGCTCTACCTTCACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGCCTTTT  
 GGAAACATCTGGTGCCCCACCTATAACAACCTGCATGACATGTTCCACTATACGTCCACCACCACCAAGT  
 GCCGCCTCCGGATACCACCCACAGCTCCACATCACCCGACGGCCCAATGGCAAGACCTGGAGCACCAAG  
 CGGCCAGCCATCTCACCTGCCTACAGCAACGAGAATGCCAGGGGTCTGGAACGGGGACCAGGATGCAG  
 GGCCACTCCTGGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGCCCTC  
 CCTCCTGTTCTTAACGTTCTGGCCTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCC  
 CTGCGGCAGCCTAGCCCTCAGCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGG  
 CAGCATTAAACTGGGCCCCACCACACGAGTGTGAGGCCGGTCCCCCATGACACGCTGCGCCTCAC  
 TGCAATGCCCAGACTACACCTGACCCCTGCGGCGCTCCCCGGATGACATCCCACTCATGACCCCCAACCC  
 ATCACTATGATCCCCAACTCCCTGGTAGGGCTGCAGACATTGCACCCCTATAACACCTTTGCCGACGGGT  
 TCAACAGTACCGGGCTGCCCACTCACACTCCACTACCCGGGTA

**ACCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG230506 representing NM\_001166660  
 Red=Cloning site Green=Tags(s)

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MWLRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQYL
GVPYAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNED
CLYLNVYVPTEDDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITLNYRVGLGFLSTGDQ
AAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTLSSHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEIL
MEQGEFLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTD
WADRDNPETRRKTLVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYV
FGVPMVGPTDLFPCNFSKNDVMLSAVVMTYWTNF AKTGDPNKVPVQDTKF IHTKANRFEEVAWSKYNPRD
QLYLHIGLKPRVRDHYRATKVAFWKHLVPHLYNLHDMFHYSSTTKVPPPDTTHSSHITRRPNGKTWSTK
RPAISPAYSNENAQGSWNGDQDAGPLLVENPRDYSTE SVTIAVGASLLFLNVLAF AALYYRKDKRRQEP
LRQPSPQRGAGAPELGAAP EEE LAALQLGPTHHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNT
ITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHSTTRV
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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 Size:** 3875 bp

**RefSeq ORF:** 2427 bp

**Locus ID:** 54413

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

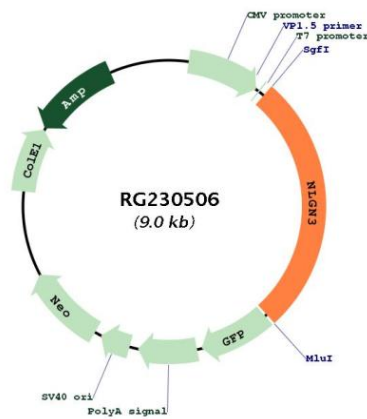
**Cytogenetics:** Xq13.1

**Protein Families:** Druggable Genome, Transmembrane

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

**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 RG230506