

## Product datasheet for **SC113280**

### Neuroigin 3 (NLGN3) (NM\_018977) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 3 (NLGN3) (NM_018977) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroigin 3
Synonyms:	HNL3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC113280 sequence for NM\_018977 edited (data generated by NextGen Sequencing)

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ATGTGGCTGCGGCTTGGCCCCGCCCTCGCTGTCCCTGAGCCCCAAGCCACGGTTGGCAGG
AGCCTGTGCCTCACCCCTGTGGTTCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCA
GCACCCACAGTCAACACTCACTTTGGGAAGCTAAGGGGTGCCCGAGTACCACTGCCAGT
GAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGTCCCCCGATCGGC
GAGAAACGTTTTCTGCCCCCTGAACACCCCATCCTGGTGGGCATCCGGAACGCCACA
CACTTTCCCCCAGTGTGCCCCAGAACATCCACACAGCTGTGCCGAAGTCATGCTGCCG
GTCTGGTTCACTGCCAATTGGATATCGTCGCTACTTACATCCAGGAGCCCAACGAAGAC
TGTCTCTACCTGAACGTCTATGTGCCGACGGAGGATGGATCCGGCGCTAAGAAACAGGGC
GAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAGTGGTGCTAAA
CCCCTCATGGTCTACATCCACGGAGGCTTTACATGGAAGGGACAGGCAACATGATTGAT
GGCAGCATCCTCGCCAGTTATGGCAATGTCATCGTCATCACCTCAACTATCGGGTTGGA
GTGCTAGGTTTCTGAGTACTGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGAC
CAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATATTGCCTTCTTGGGGGAGACCCCGC
CGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCCTCAGCCTCCTCACGTTGTCA
CATCACTCAGAGGGACTTTCCAGAGAGCCATCATCAAAGTGGCTCTGCTCTGTCCAGC
TGGGCTGTGAACTACCAACAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGT
AATGTGCTGGACACCGTGGATATGGTGGACTGTCTTGGCAAAAGAGTGCCAAGGAGCTG
GTAGAGCAGGACATCCAGCCAGCCCGCTACCACGTGGCCTTTGGCCCTGTGATTGATGGT
GATGTCATTCTGATGACCCTGAGATCCTCATGGAGCAGGGCGAGTTCCTCAACTATGAC
ATCATGCTAGGTGTAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGTGGTGGACCCT
GAGGATGGTGTCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTTGTGGACAATCTG
TATGGCTATCCTGAGGGTAAGGACACCCTGCGAGAGACCATCAAGTTCATGTATACAGAC
TGGGCAGACCGTGACAACCTGAGACCCGCCGTAACAACTGGTGGCACTCTTCACTGAC
CACCAGTGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTACGGCTCGCT
ACCTACTTCTACGCCCTTCTATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGAT
GCAGCTCATGGGGATGAAGTACCCTATGTTTTGGGGTTCCTATGGTAGGCCCACTGAC
CTTTTCCCCTGCAACTTCTCCAAGAATGATGTTATGCTCAGTGTGTCGTCATGACCTAT
TGGACCAACTTTGCCAAGACTGGGGATCCCAACAAGCCGGTCCCCCAGGACACCAAGTTC
ATTCACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAATCCCCGAGAC
CAGCTCTACCTTACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAG
GTGGCCTTTTGGAAACATCTGGTGCCCCACCTATACAACCTGCATGACATGTTCCACTAT
ACGTCCACCACCACAAAGTGCCGCCTCCGGATACCACCCACAGCTCCCACATCACCCGC
AGGCCCAATGGCAAGACCTGGAGACCAAGCGGCCAGCCATCTCACCTGCCTACAGCAAC
GAGAATGCCCAGGGGTCTGGAACGGGGACCAGGATGCAGGGCCACTCCTGGTGGAGAAC
CCTCGTACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGCCTCCCTCCTGTTT
CTTAACGTTCTGGCCTTCTGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCC
CTGCGGCAGCCTAGCCCTCAGCGGGGAGCCGGGGCCCGGAGTTGGGAGCTGCTCCAGAG
GAGGAGCTGGCAGCATTACAACGGGGCCCAACCACAGTGTGAGGCCGGTCCCCC
CATGACACGCTGCGCCTCACTGCATTGCCCGACTACACCTGACCTGCGGCGCTCCCCG
GATGACATCCCACTCATGACCCCAACACCATCACTATGATCCCCAACTCCCTGGTAGGG
CTGCAGACATTGCACCCCTATAACACCTTTGCCGAGGGTTCAACAGTACCGGGCTGCC
CACTCACACTCCACTACCCGGGTATAG

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Clone variation with respect to NM\_018977.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018977 unedited  
 CCACGCCCTTCGCACGAGGCCAGGCTGCCTGAGAGCTGATCTCGGGGATTCGGGTGCGGA  
 GCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCGGTTTCAGTCGCTTGACAGGCC  
 CGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCTTTCTGAAGCTGTGGTGTGNAC  
 TCCNGCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTT  
 CAAGTCAGTGTGGCCATGAAGGGGCTGCCTATTGGGCTGATGCTGTGACCCTGGAGTCTG  
 CCTCTCCCTGCCAGTCCCCTGCCGGAACATGTGGCTGCGGCTTGCCCGCCCTCGCTGT  
 CCTGAGCCCCAAGCCCACGGTTGGCAGGAGCCTGTGCCTCACCTGTGGTTCTCAGT  
 TGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCACTTTGGGAAGC  
 TAAGGGGTGCCCGAGTACCCTGCCAGTGGATCCTGGGGCCTGTGGACCAATACCTGG  
 GGGTGCCCTACGCAGCTCCCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCACCC  
 CATCTGGTGGGCATCCGGAACGCCCCACACTTTTCCCAGTGTGCCCCCGAACATCC  
 CCACAGCTGTGCCGAAGTCATGCTGCCGGTCTGGTTCCTGCAACTGGATATCGTC  
 GCTACTTACTTCCAGGAGCCACCGAAGACTGTCTCTACCTGAACGTCTATGTCCGAACG  
 AAGATGGATCCCGCGCTAAAAACAGGGCCAGGAACCTACCGGATAATGACCGGGATGA  
 AAATAAAAACCTCCCGGACCATGGTGTCTAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018977 unedited  
 TTTGGTCCGAGGCCGCTTCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTGGGAGAGCTAAC  
 TGGATTTTTTATTTTATATCAAGACACTGTGTTAAAAATTTTACAAAGGACAACTCC  
 ATGGGTTTCCGTTAGTGTTTAAGAACTTTTCTTAAAAAACCACCAACAA  
 CAAAAACACCGCTTTTGAAGAGAAATGACAGACACAAAAGACTGTAAGAAAATGG  
 GCGAATTTCTGATAGCATTTCCCAAGGCAGAGGCAAAACCCAGATCAGACCTGGGGG  
 CCCAATAGTGATGTGGCTTCCATAGTACGTTGTTACCAAATCTAAGGTCACCTGGTCTG  
 GCCAGGCCAATGCTGTTGGCCTTTGGGGAAGCAGGTACCCCTGCAGGCTCTGCAGCCCTC  
 CACACGGACACAGAGAGAGTTGGAGATCTCTCCCTACGACCCTCCAGCTCCATCCAGTG  
 CTAGCCCTTTCTCTCCACCCCATGGGCTTGCTTAAATCTGTTTCTTCTGGGGGTC  
 TTGTTCTTGGTCTGATTGTGTGAGCACTGGGGTCTAGAGCCAGAGACCTTCGGGC  
 CTGAAGCCCTCCCTCCAGAGGCTTTATCACTCATGGGTTGAAAAGCATTGTTCCCA  
 AATTTAAAAAGAAAAATCACAAAACAAGACCCATAAAAAAGCAAGTCTGGGAGGG  
 AAGACCATCCCGCTTTTAAAGCTCCAATCCTGGATTTGTGCGGGGGCACTTCCAAAGA  
 GGCAAGGCGAACCCAAAGGGGTGCCAACTGTTGCTTTCAGCCCCCAGGATGGCCGCGG  
 GCACATTAGAGAGCTTGCTCAGCTCGCTGTTATAGGTCCCTCGGTTACCGAGGACTTACT  
 GGGTGCCATTTAAAGTTTGGGCAAGCCTACTCCCGTTATTGGGTTCTGGACAAGCGGGG  
 GATGCCACACTCTCTTTGTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018977

**Insert Size:**

3800 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_018977.2](#), [NP\\_061850.2](#)

**RefSeq Size:** 3905 bp

**RefSeq ORF:** 2487 bp

**Locus ID:** 54413

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

**Cytogenetics:** Xq13.1

**Domains:** COesterase

**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]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Isoform 2 has also been referred to as HNL3L, or the long form.