

## Product datasheet for **SC111375**

### NLN (NM\_020726) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NLN (NM_020726) Human Untagged Clone
Tag:	Tag Free
Symbol:	NLN
Synonyms:	AGTBP; EP24.16; MEP; MOP
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:** >NCBI ORF sequence for NM\_020726, the custom clone sequence may differ by one or more nucleotides

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ATGATCGCCCGTGCCTTTTGGCTGTGCGAAGCCTCCGCAGAGTTGGTGGTTCCAGGATTTTACTCAGAA
TGACGTTAGGAAGAGAAGTGATGTCTCCTCTTCAGGCAATGTCTTCTATACTGTGGCTGGCAGAAATGT
TTTAAGATGGGATCTTTACCAGAGCAAATTAACAAGAAGTCTGAGGAGCTCATTGTGCAGACCAAACAG
GTGTACGATGCTGTTGGAATGCTCGGTATTGAGGAAGTAACTTACGAGAAGTGTCTGCAGGCACTGGCAG
ATGTAGAAGTAAAGTATATAGTGAAAGGACCATGCTAGACTTTCCCCAGCATGTATCCTCTGACAAAGA
AGTACGAGCAGCAAGTACAGAAGCAGACAAAAGACTTTCTCGTTTTGATATTGAGATGAGCATGAGAGGA
GATATATTTGAGAGAATTGTTCAATTTACAGGAAACCTGTGATCTGGGGAAGATAAAAACCTGAGGCCAGAC
GATACTTGAAAAGTCAATTAATGAAAAGAAAAGTGGGCTCCATCTTCTGAACAAGTACAGAATGA
AATCAAATCAATGAAGAAAAGATGAGTGAAGTATGATTGATTTTAAACAAAACCTCAATGAGGATGAT
ACCTTCTTGTATTTTCAAGGCTGAACCTTGGTGTCTTCTGATGATTTTATTGACAGTTTAGAAAAGA
CAGATGATGACAAGTATAAAATACCTTAAAATATCCACACTATTTCCCTGTCATGAAGAAATGTTGTAT
CCCTGAAACCAGAAGAAGGATGAAAATGGCTTTTAAATACAAGGTCAAAGAGGAAAACACCAATAATTTG
CAGCAGCTACTCCCACTGCGAACCAGGTGGCCAAACTACTCGGTTATAGCACACATGCTGACTTCGTCC
TTGAAATGAACACTGCAAAGAGCACAAGCCGCTAACAGCCTTTCTAGATGATTTAAGCCAGAAGTTAAA
ACCCTTGGGTGAAGCAGAACGAGAGTTTATTTGAATTTGAAGAAAAAGGAATGCAAAGACAGGGGTTTT
GAATATGATGGGAAAATCAATGCCTGGGATCTATATTACTACATGACTCAGACAGAGGAAGTCAAGTATT
CCATAGACCAAGAGTTCCTCAAGGAATACTTCCAATTGAGGTGGTCACTGAAGGCTTGTGAACACCTA
CCAGGAGTTGTTGGGACTTTCAATTTGAACAAATGACAGATGCTCATGTTTGGAAACAAGAGTGTACACTT
TATACTGTGAAGGATAAAGCTACAGGAGAAGTATTGGGACAGTTCTATTTGGACCTCTATCCAAGGGAAG
GAAAATACAATCATGCGGCCTGCTTCGGTCTCCAGCCTGGCTGCCTTCTGCCTGATGGAAGCCGGATGAT
GGCAGTGGCTGCCCTCGTGGTGAACCTTCTCACAGCCAGTGGCAGGTGCTCCCTCTCTCCTGAGACACGAC
GAGGTGAGGACTTACTTTTATGAGTTTGGTACAGTGCATCAGATTTGTGCACAGACTGATTTTGCAC
GATTTAGCGGAACAAATGTGAAACTGACTTTGTAGAGGTGCCATCGCAAATGCTTGAAAATGGGTGTG
GGACGTCGATTCCTCCGAAGATTGTCAAACATTATAAAGATGGAAGCCCTATTGCAGACGATCTGCTT
GAAAACTTGTGCTTCTAGGCTGGTCAACACAGGTCTTCTGACCCTGCGCCAGATTGTTTTGAGCAAAG
TTGATCAGTCTTTCATACCAACACATCGCTGGATGCTGCAAGTGAATATGCCAAATACTGCTCAGAAAT
ATTAGGAGTTGCAGCTACTCCAGGCACAAATATGCCAGCTACCTTTGGACATTTGGCAGGGGGATACGAT
GGCCAATATTATGGATATCTTTGGAGTGAAGTATTTCCATGGATATGTTTTACAGCTGTTTTAAAAAAG
AAGGGATAATGAATCCAGAGGTTGGAATGAAATACAGAAACCTAATCCTGAAACCTGGGGGATCTCTGGA
CGGCATGGACATGCTCCACAATTTCTTGAACGTGAGCCAAACAAAAGCGTTCCTAATGAGTAGAGGC
CTGCATGCTCCGTGA
```

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_020726 unedited  
 CCCCCCGGGNNCCNCCNCCNCCNCCNCCNCTTTCTCCNNCCCCCCCCNCCCGTTCAA  
 ATTTGTNATACGACTCACTATAGCGCGCCGNAATTCGCACGAGGGCGTGGAGCTGCCG  
 CACGTGGGAGGGCGCTGGCCAGGCAGCCACTGTGGCCTCTGCGGCTAGGCCGGCTCGAGA  
 CTCCGGGCGCCAGGCGCTGCCGCCCGCTCGCCGCCACGCCGAAGGACCACGCGCC  
 CGCCGCCAGCCTCTCAGCGCTCCCATGATCGCCCGGTGCCTTTTGGCTGTGCGAAGC  
 CTCCGCAGAGTTGGTGGTCCAGGATTTACTCAGAATGACGTTAGGAAGAGAAGTGATG  
 TCTCCTTTCAGCAATGTCTTCTATACTGTGGCTGGCAGAAATGTTTTAAGATGGGAT  
 CTTTCACCAGAGCAAATAAAACAAGAACTGAGGAGCTCATTGTGCAGACCAAACAGGTG  
 TACGATGCTGTTGGAATGCTCGGTATTGAGGAAGTAACTTACGAGAACTGTCTGCAGGCA  
 CTGGCAGATGTAGAAGTAAAGTATATAGTGAAAGGACCATGCTAGACTTTCCCAGCAT  
 GTATCCTCTGACAAAGAAGTACGAGCAGCAAGTACAGAAGCAGACAAAAGACTTTCTCGT  
 TNTGATATTGAGATGAGCATGAGAGGAGATATTTGAGAGAATTGTTTCATTTACAGGAN  
 ACCTGTGATCTGGGAAGATAAAACCTGGAGCCAGACGATACTTGAAAAGTCAATTTAA  
 ATGGGGAAAAGAAATGGGCTCCATCTTTCTGAAACAGTACAGAATGAAATCAAATCAATG  
 AAGACAGAATGAGTGAGCTATGTATTGATTTTACAAAACCCCTCATGAGATGATACCTT  
 CCTTGATTTTCCAGGNCTGAACTTGGNGCTCTCCCTGAGATTTTATTGCCAGGTTAAAA  
 AGACGATGATGACAGGTAA

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_020726 unedited  
 NTTTAGCTTGACCGCGCCGCAATCTANGGATCGGTTTTTTTTTTTTTTTTTTTTGGGAT  
 GATTCATTTATCAGTCCAGAAATCCAAGTACAAAACCTCAAGATACAAGAAGGATCAAA  
 TTATATCATATATATGATTCAATTTAAAAATTCTTAGCCCTCTTATATCATATTATCTAG  
 ATTATAATAGTAAAAATCAAGTTACATTCATATGAAACTTTCATAAAAAGAAATCAAAT  
 CCAGTTTTATGAAATTTATAGTACAATTACTTTCTAGTGGGCTTTTTCTTAGGTCACAG  
 TATTTATAATCCATTTACATCTTTATAATTTTTAAAAATTAGAAAAACAAAAGGATGTCAA  
 TAGAAATCTAAATTTTCACTTGCAAAAACCCCTCAGTTTCCAGGCCAGTAACACATGGT  
 GATGTCGACTTGTCTCCAGACATGGACGGCTACCAAAGATCCCCAGTTCACGGAGCATG  
 CAGGCCTACTCATTAGGAACGCTTTTTGGTTGGCTCAGTTTCAAGAAATTTGGGAG  
 CATGTCCATGCCGTCCAGAGATCCCCAGGTTTCAGGATTAGGTTTCTGTATTTTCATTCC  
 AACCTCCGGATTCAATATCCCTTCTTTTTTAAAAACAGCTGAAAAACATATCCATGAAAA  
 TACTTCACTCAAAGATATCCATAATATTGGCCATCGTATCCCCCTGCCAAATGTCCAAA  
 GGTAGCTGGCATAATTTGTGCCTGGAGTAGCTGCAACTCCTAATATTTCTGAGCAGTATTT  
 GGCATATTCATTGACAGCATCCAGCGATGTGTTGGTATGAAGAGACTGATCAACTTTGCT  
 CAAACAATCTGGCGCAGGTGAGAAGACCTGTGTTGAGCAGCCTAGAAGCCACAGTTTTCA  
 AGCAGATCGTCTGCATAGGGCTTCTCTTTT

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_020726

**Insert Size:** 2720 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\\_020726.2](#), [NP\\_065777.1](#)

**RefSeq Size:** 2882 bp

**RefSeq ORF:** 2115 bp

**Locus ID:** 57486

**UniProt ID:** [Q9BYT8](#)

**Cytogenetics:** 5q12.3

**Domains:** Peptidase\_M3

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Renin-angiotensin system

**Gene Summary:** This gene encodes a member of the metallopeptidase M3 protein family that cleaves neurotensin at the Pro10-Tyr11 bond, leading to the formation of neurotensin(1-10) and neurotensin(11-13). The encoded protein is likely involved in the termination of the neurotensinergic signal in the central nervous system and in the gastrointestinal tract. [provided by RefSeq, Jun 2010]