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Product datasheet for RC212447

NLN (NM_020726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NLN (NM_020726) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NLN
Synonyms:	AGTBP; EP24.16; MEP; MOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC212447 representing NM_020726
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

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>RC212447 representing NM_020726
Red=Cloning site Green=Tags(s)

MIARCLLAVRSLRRVGGSRILLRMTLGREVMSPLQAMSSYTVAGRNVLRWDLSPEQIKTRTEELIVQTKQ
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LHAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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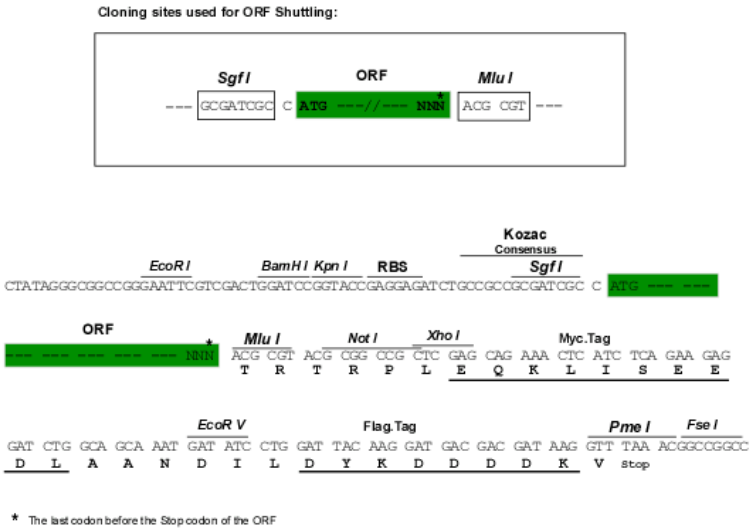
Chromatograms: https://cdn.origene.com/chromatograms/mk6237_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020726

ORF Size: 2112 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.

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020726.5
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
MW:	80.5 kDa
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]

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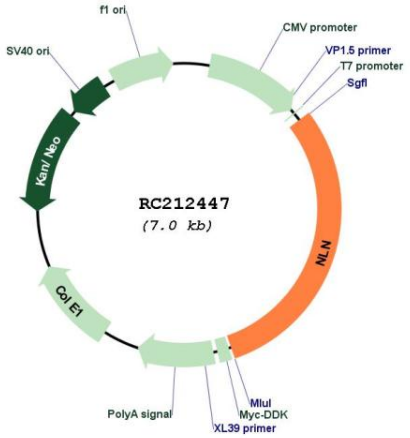
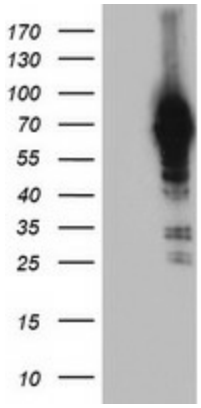
Product images:



Circular map for RC212447



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NLN (Cat# RC212447, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NLN(Cat# [TA504178]). Positive lysates [LY412353] (100ug) and [LC412353] (20ug) can be purchased separately from OriGene.

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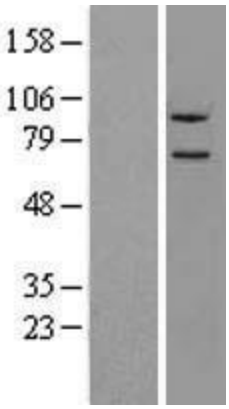
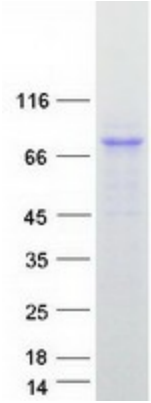


Western blot validation of overexpression lysate (Cat# [LY412353]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212447 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NLN protein (Cat# [TP312447]). The protein was produced from HEK293T cells transfected with NLN cDNA clone (Cat# RC212447) using MegaTran 2.0 (Cat# [TT210002]).

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