

## Product datasheet for **MR226628**

### **Nlgn1 (NM\_001163387) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nlgn1 (NM_001163387) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nlgn1
Synonyms:	6330415N05Rik; BB179718; mKIAA1070; NL1; Nlg1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR226628 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACTTCCCAGATGCATGTGGCCAAATTATGTTTGGAGAGCTATGATGGCATGTGTGGTCCACAGGG  
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 GTTGGATGATGTAGACCCATTGGTTACTACTAACTTTGGCAAGATTAGGGGAATTAAGAAAAGAACTCAAT  
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 GTTCCAGCCTCCAGAACCACCATCTCCCTGGTCTGACATCCGGAACGCCACTCAGTTTGTCTGTATG  
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 TACTGAAATCTGTATGATGGGAGTGTCTTGGCAAGCTATGGCAATGTGATCGTATCACAGTCAACTAT  
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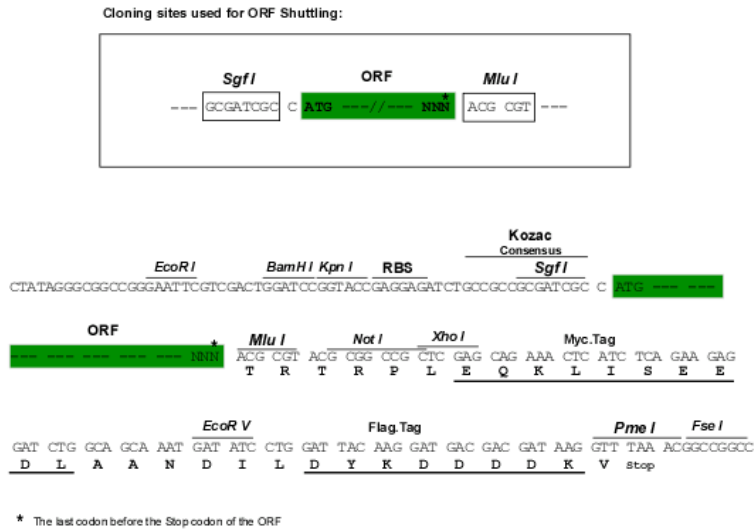
**Protein Sequence:** >MR226628 protein sequence  
 Red=Cloning site Green=Tags(s)

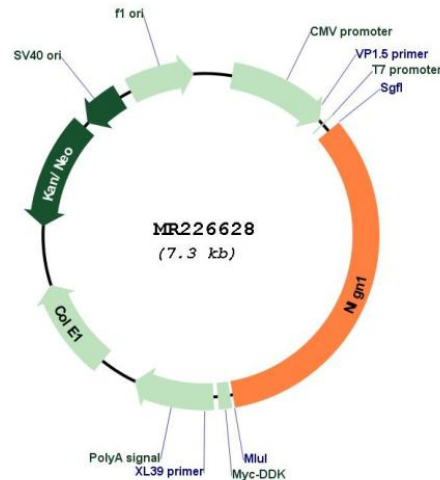
MALPRCMWPNYVWRAMMACVVHRGSGAPLTLCLLGCLLQTFHVLSQLDDVDPLVTTNFGKIRGIKKELN  
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 VVSSYVQDQSEDCLYLNIIYVPTEDDIRDSGGPKPVMVYIHGGSYMEGTGNLYDGSVLASYGNVIVITVNY  
 RLGVLGFLSTGDQAAKGNYGLLDLIQALRWTSENI GFFGGDPLRITVFGSGAGGSCVNL LTL SHYSEGLF  
 QRAIAQSGTALSSWAVSFQPAKYARILATKVGCNVSDTVLVECLQKPKYKELVDQDVQPARYHIAFGPV  
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 DVLRETIKFMYPDADRHPETRRKTL LALFTDHQWVAPAVATADLHSNFGSPTYFYAFYHHCQTDQVPA  
 WADAAHGDEVYVLGIPMIGPTELFPCNF SKNDVML SAVVMTYWTNFAKTGDPNQVPVQDTKFIHTKPNR  
 FEEVAWTRYSQKDQLYHLIGLPRVKEHYRANKVNLWLELPHLHNLNDISQYTSSTTKVPSTDITLRPT  
 RKNSTPVTSAFPTAKQDDPKQPPSPFSVDQRDYTEL SVTIAVGASLLFLNLILAFALYYKKDKRRHDVH  
 RRCSPQRTTTNDLTHAPEEEIMSLQMKHTDL DHECESIHPHEVLR TACPPDYTLAMRRSPDDIPLMTPN  
 TITMIPNTIPGIQPLHTFNTFTGGQNTLPHPHPHSHSTTRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001163387

**ORF Size:** 2442 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\\_001163387.2](#)

**RefSeq Size:** 15315 bp

**RefSeq ORF:** 2445 bp

**Locus ID:** 192167

**Cytogenetics:** 3 A3

**MW:** 91 kDa

**Gene Summary:**

Cell surface protein involved in cell-cell-interactions via its interactions with neurexin family members. Plays a role in synapse function and synaptic signal transmission, and probably mediates its effects by recruiting and clustering other synaptic proteins. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. May be involved in specification of excitatory synapses. Required to maintain wakefulness quality and normal synchrony of cerebral cortex activity during wakefulness and sleep (PubMed:23716671).[UniProtKB/Swiss-Prot Function]