

Product datasheet for **MC221824**

Nlgn1 (NM_001163387) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlgn1 (NM_001163387) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC221824 representing NM_001163387
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACTTCCCAGATGCATGTGGCCAAATTATGTTTGGAGAGCTATGATGGCATGTGTGGTCCACAGGG
 GATCCGGTGCCCCATTGACTCTCTGCTTGTGGGATGTTTGTACAGACTTTTCAGTACTCTCTCAAAA
 GTTGGATGATGTAGACCCATTGGTTACTACTAACTTTGGCAAGATTAGGGGAATTAAGAAAGAACTCAAT
 AATGAAATTTGGGTCCTGTCTTTCAGTTTCTGGGGTCCATATGCCGCTCCACCAACAGGAGAATCATC
 GTTCCAGCCTCCAGAACCACCTCTCCCTGGTCTGACATCCGGAACGCCACTCAGTTTGTCTGTATG
 TCCCCAGAATATCATTGATGGCAGATTGCCTGAAGTTATGCTTCTGTGTGGTCCACTAATAACTGGAT
 GTGGTTTCATCATACGTCCAAGACCAGAGTGAAGACTGTCTATACTTAAACATCTATGTCCCACTGAAG
 ATGATATTCGGGACAGTGGGGTCCAAACCAGTATGGTGTACATCCATGGCGGCTTTACATGGAAGG
 TACTGAAATCTGTATGATGGGAGTGTCTTGGCAAGCTATGGCAATGTGATCGTCATCACAGTCAACTAT
 CGGCTTGGGGTACTTGGCTTCTTGGCAGAGGGGATCAGGCTGCCAAAGGAACTACGGGCTCCTTGACC
 TCATCCAGGCCCTAAGATGGACCAGCGAGAACATTGGGTTCTTTGGTGGTGACCCCTTGGCAATCACTGT
 GTTTGGATCAGGCGCTGGGGTTCATGTGTCAACCTGCTGACTTTATCCCATTATTCTGAAGGACTTTTT
 CAACGAGCAATAGCTCAGAGTGGAAACAGCCCTTCCAGCTGGGCTGTAGTTTCCAGCCTGCAAAAATACG
 CTAGAATTCTGGCCACAAAAGTTGGCTGCAATGTTTCAGATACAGTAGAGTTAGTAGAATGCCTGCAGAA
 GAAGCCTTACAAAGAACTTGTGATCAAGATGTTCAACCAGCCGATACCATAGCCTTTGGACCTGTG
 ATCGATGGTGTGTAATACCAGATGACCCTCAGATACTGATGGAACAAGGAGAGTTCCTCAACTATGATA
 TAATGTTGGGAGTTAACAAGGGGAAGGTTGAAGTTTGTGAAAAATATAGTAGATAGTGTATGGTGT
 ATCAGCCAGTGATTTTCGACTTTGCTGTTCTAATTTTGTGATAATTTATATGGATATCCTGAAGGCCAAA
 GATGTTTTGAGAGAAACCATTAATTCATGATACTGACTGGGCTGATCGCCATAATCCTGAAACTAGAA
 GGAAGACATTGTTGGCTTTGTTACGGACCATCAATGGGTAGCACCTGCTGTGGCCACAGCAGACCTTCA
 CTCGAACTTTGGCTCACCTACATACTTCTATGCCTTTTATCATCATTGCCAAACAGATCAAGTTCCAGCT
 TGGGCTGATGCAGCTCATGGGATGAGGTTCCCTATGTGTTGGGAATCCCATGATTGGCCCTACAGAGT
 TATTTCTTCAATTTCTCCAAGAATGATGTGATGTTGAGTGCAGTAGTAATGACATACTGGACGAATTT
 TGCTAAAAGTGGTGACCCAAATCAACCAGTTCCCAAGACACAAAATTCATCCATACCAAACCAACCGC
 TTTGAAGAAGTAGCATGGACCAGATATCCAGAAAGACCAGCTTATCTCCATATTGGATTAACCAACCGA
 GAGTTAAAGAGCATTACAGAGCCAATAAGGTAATCTCTGGCTGGAGCTGGTACCTCATCTGCATAATCT
 CAATGACATTTCTCAGTATACCTCGACAACAATAAAGTGCCATCCACGGACATCACTCTCAGACCTACA
 AGGAAGAATTCACACCAGTCACATCAGCCTTTCCCACTGCCAAACAGGATGATCCCAAGCAACAACCA
 GCCCTTCTCGGTGGATCAGAGGGACTACTCCACAGAGCTAAGTGTCACTATCGCAGTGGGGCCTCTCT
 GCTGTTTCTCAACATCTTGGCTTTTGCAGCCCTGTACTACAAGAAGGATAAAGAGGAGACATGATGTCCAC
 CGGAGGTGCAGCCCTCAGCGCACGACCACCAACGACCTAACCCATGCTCCAGAAGAGGAAATATGTCTC
 TCCAAATGAAGCACACTGACTTGGATCAGAGTGTGAGTCCATCCATCCATGAGGTGGTCTTTCGGAC
 CGCCTGTCCCCAGATTATACTTAGCTATGAGGAGGTACCTGATGATATTCCACTAATGACACCTAAG
 ACCATCACAATGATTTCCCAACTATACCAGGGATTACGCCCTTACATACATTCAACACATTTACTGGAG
 GACAGAATAATACACTGCCCCATCCCCACCCACACCCCATTCACATTCAACAACCAGGGTAT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001163387
Insert Size: 2445 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:	<ol style="list-style-type: none">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:	<u>NM_001163387.1</u> , <u>NP_001156859.1</u>
RefSeq Size:	4603 bp
RefSeq ORF:	2445 bp
Locus ID:	192167
Cytogenetics:	3 A3
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]