

Product datasheet for **MC222019**

Nlgn1 (NM_138666) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlgn1 (NM_138666) 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: >MC222019 representing NM_138666
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCACTTCCCAGATGCATGTGGCCAAATATGTTTGGAGAGCTATGATGGCATGTGTGGTCCACAGGG
 GATCCGGTGCCCCATTGACTCTCTGCTTGTGGGATGTTTGTACAGACTTTTCAGTACTCTCTCAAAA
 GTTGGATGATGTAGACCCATTGGTTACTACTAACTTTGGCAAGATTAGGGGAATTAAGAAAGAACTCAAT
 AATGAAATTTTGGGTCCTGTCTTTCAGTTTCTTGGGGTCCATATGCCGCTCCACCAACAGGAGAATC
 GTTCCAGCCTCCAGAACCACCCTCCCTGGTCTGACATCCGGAACGCCACTCAGTTTGTCTGTATG
 TCCCCAGAATATCATTGATGGCAGATTGCCTGAAGTTATGCTTCTGTGTGGTCCACTAATAACTGGAT
 GTGGTTTCATCATACGTCCAAGACCAGAGTGAAGACTGTCTATACTTAAACATCTATGTCCCACTGAAG
 ATGGTCCCCTTACAAAGAAACACACAGATGATTTAGGTGATAATGACGGTCTGAAGATGAAGATATTCCG
 GGACAGTGGGGTCCCAAACCAGTGATGGTGTACATCCATGGCGGCTTACATGGAAGGTACTGGAAAT
 CTGTATGATGGGAGTGTCTTGGCAAGCTATGGCAATGTGATCGTATCACAGTCAACTATCGGCTTGGGG
 TACTTGGCTTCTTGGACACAGGGGATCAGGCTGCCAAAGGAAACTACGGGCTCCTTGACCTCATCCAGGC
 CCTAAGATGGACCAGCGAGAACATTGGGTCTTTGGTGGTGACCCCTTGCGAATCACTGTGTTTGGATCA
 GGCGCTGGGGTTCATGTGTCAACCTGTGACTTTATCCATTATTCTGAAGGTAACCGTTGGAGCAATT
 CAACCAAAGGACTTTTTCAACGAGCAATAGCTCAGAGTGGAAACAGCCCTTCCAGCTGGGCTGTTAGTTT
 CCAGCTGCAAAATACGCTAGAATTCTGGCCACAAAAGTTGGCTGCAATGTTTCAGATACAGTAGAGTTA
 GTAGAATGCCTGCAGAAGAAGCCTTACAAAGAAGTTGTTGATCAAGATGTTCAACCAGCCGATACCACA
 TAGCCCTTGGACCTGTGATCGATGGTGTGTAATACCAGATGACCCTCAGATACTGATGGAACAAGGGA
 GTTCTCAACTATGATATAATGTTGGGAGTTAACCAAGGGGAAGGTTGAAGTTTGTGCAAAATATAGTA
 GATAGTGTGATGGTGTATCAGCCAGTATTCGACTTTGCTGTTTCTAATTTTGTGATAATTTATATG
 GATATCTGAAGGCAAAGATGTTTTGAGAGAAACCATTAAATTCATGTATACTGACTGGGCTGATCGCCA
 TAATCCTGAAACTAGAAGGAAGACATTGTTGGCTTTGTTACGGACCATCAATGGGTAGCACCTGCTGTG
 GCCACAGCAGACCTTCACTCGAAGTTGGCTCACCTACATACTTCTATGCCTTTTATCATCATTGCCAAA
 CAGATCAAGTTCAGCTTGGGCTGATGCAGCTCATGGGGATGAGGTTCCCTATGTGTTGGGAATCCCCAT
 GATTGGCCCTACAGAGTATTTCCTTGAATTTCTCAAGAATGATGTGATGTTGAGTGCAGTAGTAATG
 ACATACTGGACGAATTTTGTAAAAGTGGTGACCCAAATCAACCAGTTCCCTCAAGACACAAAATTCATCC
 ATACCAAACCCACCGCTTTGAAGAAGTAGCATGGACCAGATATCCAGAAAGACCAGCTTTATCTCCA
 TATTGGATTAAAACCGAGAGTTAAAGAGCATTACAGAGCCAATAAGGTAATCTCTGGCTGGAGCTGGTA
 CCTCATCTGCATAATCTCAATGACATTTCTCAGTATACCTCGACAACAATAAGTGCCATCCACGGACA
 TCACTCTCAGACCTACAAGGAAGAAATCCACACCAGTCACATCAGCCTTTCCCACTGCCAAACAGGATGA
 TCCCAAGCAACAACCAAGCCCTTCTCGGTGGATCAGAGGGACTACTCCACAGAGCTAAGTGTCACTATC
 GCAGTGGGGCCTCTCTGCTGTTTCTCAACATCTTGGCTTTTGCAGCCCTGTACTACAAGAAGGATAAGA
 GGAGACATGATGTCCACCGGAGGTGCAGCCCTCAGCGCACGACCACCAACGACCTAACCCATGCTCCAGA
 AGAGGAAATTATGTCTCTCCAAATGAAGCACACTGACTTGGATCAGAGTGTGAGTCCATCCATCCACAT
 GAGGTGGTCTTTCGGACCGCTGTCCCCAGATTATACTCTAGCTATGAGGAGGTACCTGATGATATTC
 CACTAATGACACCTAACACCATCACAATGATTCCTCAACTATACCAGGGATTACGCCCTTACATACATT
 CAACACATTTACTGGAGGACAGAATAATACACTGCCCCATCCCCACCCACACCCCATTCACATTCAACA
 ACCAGGGTAG

ACGCGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_138666
Insert Size: 2532 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:	NM_138666.3 , NP_619607.2
RefSeq Size:	5630 bp
RefSeq ORF:	2532 bp
Locus ID:	192167
UniProt ID:	Q99K10
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]