

Product datasheet for **MC221962**

Nlgn2 (NM_198862) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlgn2 (NM_198862) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nlgn2
Synonyms:	NL2; NLG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221962 representing NM_198862
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGCTCCTGGCGTTGTGTCTGGTGGGGCTGGCTGGGGCTCAACGGGGAGGAGGGGTCCCGCGGGC
 GCGCCCCGGGCGGCCAGGCCTGGGCCTCGGCAGCCTCGGGGAGGAGCGCTTCCCCGTGGTGAACACAGC
 CTACGGGCGAGTGC GCGGTGTGCGGCGCGAGCTCAACAACGAGATCCTGGGCCGGTCTGTCAGTTCTTG
 GGCGTGCCCTACGCCACGCCGCCCTTGGGCGCCCGCCTTCCAGCCGCTGAGGCACCTGCCTCGTGCC
 CCGGCGTGC GCAACGCCACCACCCTGCCGCCGCTGCCCGCAGAACCTGCACGGGGCCCTGCCGCCAT
 CATGCTGCCTGTGTGGTTCACCGACAACCTGGAGGCGGCCACCTACGTGCAGAACAGAGCGGAGGAC
 TGCTGTACCTCAACCTCTACGTGCCACTGAGGACGGTCCGCTCACAAAAAACGTGACGAGGCGACGC
 TCAATCCGCCAGACAGATATCCGGGACTCTGGGAAGAAACCGGTATGCTGTTTCTACACGGCGGCTC
 CTACATGGAAGGCACCGGAACATGTTTGACGGCTCAGTCTGGTGCCTATGGCAATGCATCGTAGTC
 ACACTCAACTACGCTCTTGGGGTCTCGGTTTTCTCAGCACTGGTGACCAGGCTGCAAAAAGCAACTATG
 GGCTCCTGGACCAGATCCAGGCCCTGCGCTGGCTCAGTAAAAACATTGCCCACTTTGGAGGTGACCCCTGA
 ACGCATCACTATCTTTGGGTCTGGTGCAGGGGCCCTCTGTGTCAACTTGCTGATCCTTTCCACCACTCA
 GAAGGACTGTTCCAGAAGGCCATTGCTCAAAGTGGTACTGCCATTTCCAGCTGGTCTGTCAACTACCAGC
 CGCTCAAGTACACGCGGCTGTGGCGGCCAAAGTGGGCTGTGACCGAGAAGACAGCACTGAAGCTGTGGA
 GTGTCTGCGCCGAAGTCTTCCCGGAGCTAGTGGACCAGGATGTACAGCCTGCCGCTACCACATTGCC
 TTTGGGCTGTGGTGGACGGCGACGTAGTCCCTGATGACCCGAGATCCTCATGCAACAGGGGGAATTCC
 TCAACTACGACATGCTCATTGGTGTCAACCAGGAGAGGGTCTCAAGTTCTGGAGGACTCTGCAGAGAG
 TGAGGACGGTGTGTCTGCCAGCGCCTTTGACTTACCCTTCCAACCTTTGTGGACAACCTGTACGGGTAC
 CAGAAGGCAAGGACGTCTTCGAGAGACCATCAAGTTCATGTACACGGACTGGGCTGACAGGGACAATG
 GCGAGATGCGGGGAAGACCCTGCTGGCGCTCTTACCAGCACCAAGTGGTTCGCCCCGGCTGTGGCCAC
 CGCAAGCTGCATGCCGACTACCAGTCCCCGCTACTTTTACACTTTCTACCACCACTGCCAGGCAGAG
 GGCCGGCCAGAGTGGGCAGACGCAGCGCACGGGACGAGCTGCCCTACGTCTTTGGTGTCCCATGGTGG
 GCGCCACTGACCTCTTCCCCTGCAACTTCTCAAGAACGATGTCATGCTCAGCGCAGTAGTCATGACCTA
 TTGGACCAACTTCGCAAGACTGGTGACCCCAACCAGCCTGTGCCACAGGACACCAAGTTCATCCACACC
 AAGCCCAACCGCTTTGAAGAGGTAGTGTGGAGCAAGTTCAACAGCAAGGAAAAGCAGTATCTGCACATAG
 GCTTGA AACACCGGTGCGCGACAACCTACCGTGCCAACAAGTGGCCTTCTGGCTGGAGCTCGTGCCCA
 CCTGCACAACCTGCACACAGAGCTTTCACCACCACCACTCGCCTGCCTCCCTATGCCACACGCTGGCCA
 CCTCGCACACCTGGTCTTGGCACTTCCGGCACACGCCGCTCTCCCCACCTGCCACTCTGCCACCTGAGT
 CTGATATTGACCTAGGCCCAAGGGCCTATGACCCTTCCCCGGTACTCGAGGGACTACTCCACGGAGCT
 AAGCGTGACTGTGGCAGTGGTGCCTCCCTCCTTCTCAACATCCTTGCCCTTTGCCGCCCTCTATTAC
 AAGCGGACCGGCGCCAGGAGCTGCGGTGCCGGAGGCTTAGCCACCAGGAGGCTCAGGCTCAGGTGTGC
 CTGGTGGGGCCCCCTGCTTCCACTGCTGGCCGTGAGCTACCCCGGAGGAGGAGCTAGTATCGCTGCA
 GCTGAAGCGGGGTGGTGGTGTGGGGCGGACCTGCTGAGGCCCTGCGCCCTGCCTGTCCACCCGACTAT
 ACCCTGGCCTTGC GCGGCCACCGGACGATGTGCCTCTCTTGGCCCCGGGGCCCTAACCTGCTGCCTA
 GTGGCCTGGGGCCCCCGCCCCGCCCCACCCCTTCTCTCCATCCCTTTGGGCCCTTCCACCCCCACC
 CCTACTGCTACCAGCCACAACAACACGCTACCCCATCCCCTCCACTCCACTCGGGTATAG

CAAGCTTAACTAGCTAGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATC
 TGCGAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAAAC

Restriction Sites: SgfI-HindIII
ACCN: NM_198862
Insert Size: 2511 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_198862.2 , NP_942562.2
RefSeq Size:	5034 bp
RefSeq ORF:	2511 bp
Locus ID:	216856
UniProt ID:	Q69ZK9
Cytogenetics:	11 B3
Gene Summary:	Transmembrane scaffolding protein involved in cell-cell interactions via its interactions with neurexin family members. Mediates cell-cell interactions both in neurons and in other types of cells, such as Langerhans beta cells. Mediates cell-cell interactions between Langerhans beta cells and modulates insulin secretion (By similarity). Plays a role in synapse function and synaptic signal transmission, especially via gamma-aminobutyric acid receptors (GABA(A) receptors). Functions by recruiting and clustering synaptic proteins. Promotes clustering of postsynaptic GABRG2 and GPHN. Promotes clustering of postsynaptic LHFPL4 (PubMed:29742426). Modulates signaling by inhibitory synapses, and thereby plays a role in controlling the ratio of signaling by excitatory and inhibitory synapses and information processing. Required for normal signal amplitude from inhibitory synapses, but is not essential for normal signal frequency. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. [UniProtKB/Swiss-Prot Function]