

Product datasheet for **MR222168**

Nlgn2 (NM_198862) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR222168 representing NM_198862
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGTGGCTCTGGCGTTGTGTCTGGTGGGGCTGGCTGGGGCTCAACGGGGAGGAGGGGGTCCCGCGGGC
 GCGCCCCGGGCGGCCAGGCCTGGGCCTCGGCAGCCTCGGGGAGGAGCGTTCCCGTGGTGAACACAGC
 CTACGGGCGAGTGC GCGGTGTGCGGCGGAGCTCAACAACGAGATCCTGGGCCCGGTCTGTCAGTTCTTG
 GGCGTGCCTACGCCACGCCGCCCTTGGGCGCCGCGCTTCCAGCCGCCTGAGGCACTGCCTCGTGGC
 CCGGCGTGC GCAACGCCACCACCCTGCCGCCGCTGCCCGCAGAACCTGCACGGGGCCCTGCCGCCAT
 CATGCTGCCTGTGTGTTACCGACAATTGGAGGCGGCCACCTACGTGCAGAACAGAGCGAGGAC
 TGCCTGTACTCAACCTTACGTGCCACTGAGGACGGTCCGCTCACAAAAAACGTGACGAGGCGACGC
 TCAATCCGCCAGACAGATATCCGGGACTCTGGGAAGAAACCGGTCATGCTGTTTACACGGCGGCTC
 CTACATGGAAGGCACCGGAACATGTTGACGGCTCAGTCTGGTGCCTATGGCAATGCATCGTAGTC
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 AAGCGGGACCGGCGCCAGGAGCTGCGGTGCCGGAGGCTTAGCCACCAGGAGGCTCAGGCTCAGGTGTGC
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 GCTGAAGCGGGTGGTGGTGTGGGGCGGACCTGCTGAGGCCCTGCGCCCTGCCTGTCCACCCGACTAT
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 GTGGCCTGGGGCCCCCGCCCCCGCCCCACCCCTTCTCTCCATCCCTTTGGGCCCTTCCACCCACC
 CCTACTGCTACCAGCCACAACAACACGCTACCCCATCCCACTCCACCACTCGGGTACAAGCTT

CAAGCTTAACTAGCTAGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATC
 TGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAAAC

Protein Sequence:	<p>>MR222168 representing NM_198862 Red=Cloning site Green=Tags(s)</p> <pre> MWLLALCLVGLAGAQRGGGGPGGGAPGGPGLGLGSLGEERFPVVNTAYGRVVRGVRRELNNEILGPVVQFL GVPYATPPLGARRFQPPEAPASWPGVRNATLPPACQNLHGALPAIMLPVWFTDNLEAAATYVQNQSED CLYLNLYPTEDGPLTKKRDEATLNPPDIDIRDSGKPKVMLFLHGGSYMEGTGNMFDGSVLAAYGNVIVV TLNYRLGVLGFLSTGDQAAKGNYGLLDQIQALRWLSENI AHFGGDPERITIFGSGAGASCVNLLILSHHS EGLFQKAI AQSGTAISSWSVNYQPLKYTRLLAAKVGCDREDSTEAVECLRRKSSRELVDQDVQPARYHIA FGPVVDGDVVPDDPEILMQQGEFLNYDMLIGVNQGEGLKFVEDSAESEDGVSASAFDFTVSNFVDNLYGY PEGKDVLRETIKFMYTDWADRDNGEMRRKTLLALFTDHQWVAPAVATAKLHADYQSPVYFYTFYHHCQAE GRPEWADA AHGDEL PYVFGVPMVGATDLFPCNFSKNDVMLSAVVMTYWTNFAKTGDPNQVPVQDTKF IHT KPNRFEEVWWSKFNSKEKQYLHIGLKPRVRDNYRANKVAFWLEL VPHLHNLHTELF TTTTTRLPYATRWP PRTPGPGTSGTRRPPPPATLPESDIDLGPAYDRFPGDSRDYSTE SVTVAVGASLLFLNLAFAALYY KRDRRQLRCRRLSPPGGSGSGVPGGGPLLPTAGREL PPEEELVSLQLKGGG GADPAEALRPACPPDY TLALRRAPDDVPLLAPGAL TLLPSGLGPPPPPPPSLHPFGFPFPPPPPTATSHNNTLPHPHSTTRVQA NNNNEQKLI SEEDLAANDILDYKDDDDKV </pre>
Chromatograms:	https://cdn.origene.com/chromatograms/mm9003_g02.zip
Restriction Sites:	Sgfl-HindIII
Cloning Scheme:	<input type="checkbox"/>
ACCN:	NM_198862
ORF Size:	2515 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:	<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

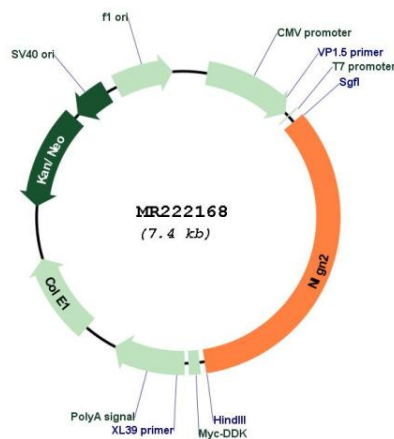
UniProt ID: [Q69ZK9](#)

Cytogenetics: 11 B3

MW: 91.4 kDa

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]

Product images:



Circular map for MR222168