

Product datasheet for **MG226628**

Nlgn1 (NM_001163387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlgn1 (NM_001163387) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nlgn1
Synonyms:	6330415N05Rik; BB179718; mKIAA1070; NL1; Nlg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226628 representing NM_001163387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACTTCCCAGATGCATGTGGCCAAATTATGTTTGGAGAGCTATGATGGCATGTGTGGTCCACAGGG
 GATCCGGTGCCCCATTGACTCTCTGCTTGTGGGATGTTTGTACAGACTTTTCACGCACTCTCTCAAAA
 GTTGGATGATGTAGACCCATTGGTTACTACTAACTTTGGCAAGATTAGGGGAATTAAGAAAGAACTCAAT
 AATGAAATTTGGGTCTGTCTTTCAGTTTCTGGGGTCCATATGCCGCTCCACCAACAGGAGAATCATC
 GTTCCAGCCTCCAGAACCACCTCTCCCTGGTCTGACATCCGGAACGCCACTCAGTTTGTCTGTATG
 TCCCCAGAATATCATTGATGGCAGATTGCCTGAAGTTATGCTTCTGTGTGGTCCACTAATAACTGGAT
 GTGGTTTCATCATACGTCCAAGACCAGAGTGAAGACTGTCTATACTTAAACATCTATGTCCCACTGAAG
 ATGATATTCGGGACAGTGGGGTCCAAACCAGTATGGTGTACATCCATGGCGGCTTTACATGGAAGG
 TACTGAAATCTGTATGATGGGAGTGTCTTGGCAAGCTATGGCAATGTGATCGTCATCACAGTCAACTAT
 CGGCTTGGGGTACTCGGCTTCTTGGACACAGGGGATCAGGCTGCCAAAGGAAACTACGGGCTCCTTGACC
 TCATCCAGGCCCTAAGATGGACCAGCGAGAACATTGGGTTCTTTGGTGGTGACCCCTTGGCAATCACTGT
 GTTTGGATCAGGCGCTGGGGTTCATGTGTCAACTTGTGACTTTATCCCATTATTCTGAAGGACTTTTT
 CAACGAGCAATAGCTCAGAGTGGAAACAGCCCTTCCAGCTGGGCTGTAGTTTCCAGCCTGCAAAAATACG
 CTAGAATTCTGGCCACAAAAGTTGGCTGCAATGTTTCAGATACAGTAGAGTTAGTAGAATGCCTGCAGAA
 GAAGCCTTACAAAGAACTTGTGATCAAGATGTTCAACCAGCCGATACCATAGCCTTTGGACCTGTG
 ATCGATGGTGTATGTAATACCAGATGACCCTCAGATACTGATGGAACAAGGAGAGTTCCTCAACTATGATA
 TAATGTTGGGAGTTAACCAAGGGGAAGGTTGAAGTTTGTGAAAAATATAGTAGATGATGATGGTGT
 ATCAGCCAGTATTTTCGACTTTGCTGTTTCTAATTTTGTGATAATTTATATGGATATCCTGAAGGCCAAA
 GATGTTTTGAGAGAAACCATTAATTCATGATACTGACTGGGCTGATCGCCATAATCCTGAAACTAGAA
 GGAAGACATTGTTGGCTTTGTTACGGACCATCAATGGGTAGCACCTGCTGTGGCCACAGCAGACCTTCA
 CTCGAACTTTGGCTCACCTACATACTTCTATGCCTTTTATCATCATTGCCAAACAGATCAAGTTCCAGCT
 TGGGCTGATGCAGCTCATGGGGATGAGGTTCCCTATGTGTTGGGAATCCCATGATTGGCCCTACAGAGT
 TATTTCTTGCAATTTCTCCAAGAATGATGTGATGTTGAGTGCAGTAGTAATGACATACTGGACGAATTT
 TGCTAAAAGTGGTGACCCAAATCAACCAGTTCCCAAGACACAAAATTCATCCATACCAAACCCAAACCGC
 TTTGAAGAAGTAGCATGGACCAGATATCCAGAAAGACCAGCTTATCTCCATATTGGATTAACCCGA
 GAGTTAAAGAGCATTACAGAGCCAATAAGGTAATCTCTGGCTGGAGCTGGTACCTCATCTGCATAATCT
 CAATGACATTTCTCAGTATACCTCGACAACAATAAAGTGCCATCCACGGACATCACTCTCAGACCTACA
 AGGAAGAATCCACACCAGTCACATCAGCCTTTCCCACTGCCAAACAGGATGATCCCAAGCAACAACCAA
 GCCCTTCTCGGTGGATCAGAGGGACTACTCCACAGAGCTAAGTGTCACTATCGCAGTGGGGCCTCTCT
 GCTGTTTCTCAACATCTTGGCTTTTGCAGCCCTGTACTACAAGAAGGATAAAGAGGAGACATGATGTCCAC
 CGGAGGTGCAGCCCTCAGCGCACGACCACCAACGACCTAACCCATGCTCCAGAAGAGGAAATTTATGTCTC
 TCCAAATGAAGCACACTGACTTGGATCAGAGTGTGAGTCCATCCATCCATGAGGTGGTCTTTCGGAC
 CGCCTGTCCCCAGATTATACTTAGCTATGAGGAGGTCACCTGATGATATTCCACTAATGACACCTAAC
 ACCATACAATGATTTCCCAACTATACCAGGGATTACGCCCTTACATACATTCAACACATTTACTGGAG
 GACAGAATAATACACTGCCCCATCCCCACCCACACCCCATTCACATTCAACAACCAGGGTA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226628 representing NM_001163387
Red=Cloning site Green=Tags(s)

MALPRCMWPNYVWRAMMACVVHRGSGAPLTLCLLGCLLQTFHALSQKLDDVDPLVTTNFGKIRGIKKELN
NEILGPVIQFLGVPYAAPPTGEHRFPPEPPSPWSDIRNATQFAPVCPQNIIDGRLPEVMLPVWFTNNLD
VVSSYVQDQSEDCLYLNIYVPTEDDIRDSGGPKPVMVYIHGGSYMEGTGNLYDGSVLASYGNVIVITVNY
RLGVLGFLSTGDQAAKGNYGLLDLIQALRWTSENI GFFGGDPLRITVFGSGAGGSCVNL LTL SHYSEGLF
QRAIAQSGTALSSWAVSFQPAKYARILATKVGCVSDTVLECLQKKPYKELVDQDVQPARYHIAFGPV
IDGDVIPDDPQILMEQGEFLNYDIMLGVNQGEGLKFVENIVDSDDGVSASDFDFAVSNFVDNLYGYPEGK
DVLRETIKFMYPDWADRHNPEPTRRKTLLALFTDHQWVAPAVATADLHSNFGSPTYFYAFYHHCQTDQVPA
WADAAHGDEVYVVLGIPMIGPTELFPCNF SKNDVML SAVVMTYWTNFAKTGDPNPVPPQDTKFIHTKPNR
FEEVAWTRYSQKDQLYLHIGLKPRVKEHYRANKVNLWLELVPHLHNLNDISQYTTSTTKVPSTDITLRPT
RKNSTPVTSAFPTAKQDDPKQQSPFSVDQRDYTEL SVTIAVGASLLFLNLAFAALYYKKDKRRHDVH
RRCSPQRTTTNDLTHAPEEEIMSLQMKHTDL DHECESIHPHEVLR TACPPDYTLAMRRSPDDIPLMTPN
TITMIPNTIPGIQPLHTFNTFTGGQNNLTPHPHPHSHSTTRV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



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_001163387.1](#), [NP_001156859.1](#)

RefSeq Size: 4603 bp

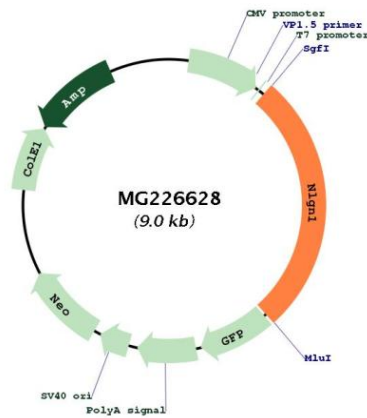
RefSeq ORF: 2445 bp

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]

Product images:



Circular map for MG226628