

Product datasheet for **MR222086**

Nlgn3 (NM_172932) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlgn3 (NM_172932) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nlgn3
Synonyms:	A230085M13Rik; HNL3; NL3; NLG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222086 representing NM_172932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTGCAGCCCTCGCTGTCCCTGAGCCCCACGCCACAGTTGGCCGGAGCCTGTGCCTCACCTGG
 GCTTCCTCAGTTTGGTGCTGAGGGCCAGTACCCAGGCCCGGCACCCACAGTCAATACTCACTTTGGGAA
 GCTAAGGGGTGCCAGAGTACCATTGCCAGTGAATCCTGGGTCTGTGGACCAATACCTGGGGTACCC
 TACGCAGCTCCCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCACCCCATCTGGTGGGCATCC
 GGAACGCCACACTTTCCCCAGTGTGCCCCAGAACATCCACACAGCTGTGCCGAAGTCATGCTGCC
 AGTCTGGTTCAGTCCAACTTGGATATCGTCGCCACTTATATCCAGGAGCCCAACGAAGATTGCCTCTAT
 CTGAATGTGTATGTGCCACGGAAGATGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATG
 ACGGGGATGAAGATGAAGACATCCGAGACAGTGGTGTAAACCTGTCATGGTCTACATCCACGGAGGCTC
 TTACATGGAAGGAACAGGCAACATGATTGATGGCAGTGTCTTGAAGTTACGGCAACGTCATCGTCATC
 ACCCTCAACTATCGGGTGGGGTCTAGGTTTCTGAGCACTGGAGATCAGGCTGCCAAGGGCAACTATG
 GGCTCCTTGATCAATCCAGGCCCTTCGCTGGGTGAGTGAGAATATTGCCTTCTTTGGAGGAGATCCCCG
 TAGAATTAAGTGTCTTTGGCTCTGGCATCGGTGCATCCTGTGTCAGTCTCCTTACACTGTCTCATATTCT
 GAGGGGCTTTTCCAGAGGGCCATCATCCAAAGTGGCTCTGCTCTATCTAGCTGGGCTGTGAACTACCAAC
 CAGTGAAGTATACCAGCTTGTGGCAGACAAAGTGGGCTGTAACGTCCTGGACACTGTGGATATGGTGGA
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 TTTGGCCCTGTGATTGATGGTGTGTCATTCTGATGACCCTGAGATCCTTATGGAGCAGGGAGAGTCC
 TCAACTATGATATCATGCTAGGCGTCAACCAGGGTGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGACCC
 CGAGGATGGTGTCTCGGGCACTGACTTTGACTACTCTGTCTCCAATTTTGTGGACAATCTGTATGGCTAT
 CCTGAGGGTAAGGACACCCTGCGGGAGACTATCAAGTTCATGTATACGGACTGGGCGAGCCGAGACAACC
 CTGAGACCCGCCGTAACAACTGGTGGCACTCTTCACTGACCACCAAGTGGTGGAGCCTTCAGTGGTGAC
 AGCCGACTGTCACGCCCGCTATGGCTCACCTACTTCTACGCCTTCTACCATCACTGCCAGAGCCTC
 ATGAAGCCCGCATGGTGCAGTGCAGCACACGGGGATGAAGTGCCTATGTTTTTGGTGTCCCTATGGTAG
 GTCCCACTGACCTTTTCCCTGCAACTTCTCAAGAATGATGTTATGCTCAGTGTGTCGTCATGACCTA
 TTGGACCAACTTTGCCAAGACCCGGGATCCCAACAAGCCGGTACCCAGGATACCAAGTTCATTACACCC
 AAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAATACAATCCCGAGACCAGCTCTACCTTCACATCG
 GGCTGAAACCAAGGGTTCGTGATCATTACCGGGCCACAAAGGTAGCCTTTTGGAAACACCTGGTGCCCA
 CCTGTACAACCTGCATGACATGTTCCACTATACATCCACGACCACCAAGTGCAGCCCGGACACCACC
 CACAGCTCCCACATCACCCGTAGGCCAACGGCAAGACCTGGAGCACCAAGCGGCCGGCGATTTACCTG
 CCTACAGCAATGAGAATGCCCTGGGTCTGGAATGGGGACCAGGATGCGGGGCCACTCCTGGTTGAGAA
 CCCTCGAGACTACTCCACTGAATTAAGTGTCACTATCGCTGTGGGGCCCTCCCTCCTGTTTCTCAATGTG
 TTGGCCTTTGCTGCCCTTATTACCGTAAGGACAAACGGCGCCAGGAGCCCTGAGGCAGCCTAGCCCC
 AAAGGGAACTGGTGGCCCTGAATTGGGAACGCTCCGGAGGAGGAGCTGGCAGCATTACAGTTGGTCC
 CACTACCATGAATGTGAGGCCGGTCCCCACATGACACACTTCGCCTCACAGCACTGCCGACTATACC
 CTGACCCTGCGGGCTCCCTGATGACATCCCACTCATGACTCCCAACACCATCACTATGATTCCTAATT
 CCCTGGTTGGGTTGCAGACCTTGACCCCTATAACACCTTTGCCGAGGGTTCAACAGTACTGGGCTGCC
 CCACTCACACTCCACTACCCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222086 representing NM_172932
Red=Cloning site Green=Tags(s)

MWLQPSLSLSPTPTVGRSLCLTLGFLSLVLRASQTAPAPTVNTHFGKLRGARVPLPSEILGPVDQYLGVP
YAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLY
LNYYVPTEDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSVLASYGNVIVI
TLNRYRVGVLGFLSTGDQAAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTLSHHS
EGLFQRAIIQSGSALSSWAVNYQPVKYTSLLADKVGCVLDTVDMVDCLRQKSAKELVEQDIQPARYHVA
FGPVIDGDVIPDDPEILMEQGEFLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGY
PEGKDTLRETIKFMYTDWADRNPETRRKTLVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSL
MKPAWSDAAHGDEVYVFGVPMVGPTDLFPCNFSKNDVMLSAVVMTYWTNFAKTGDPNKPVPQDTKFIHT
KANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATKVAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTT
HSSHITRRPNGKTWSTKRPAISPAYSNENAPGSWNGDQDAGPLLVENPRDYSTELSVTIAVGASLLFLNV
LAF AALYYRKDKRRQEPLRQPSQRGTGAPELGTAPEEELAALQLGPTHHECEAGPPHDTLRLTALPDYT
LTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHSTTRV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172932

ORF Size: 2475 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_172932.4](#), [NP_766520.2](#)

RefSeq Size: 3899 bp

RefSeq ORF: 2478 bp

Locus ID: 245537

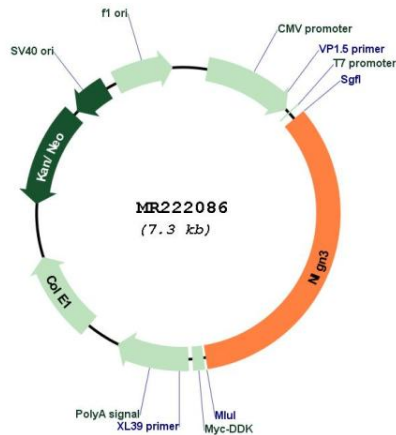
UniProt ID: [Q8BYM5](#)

Cytogenetics: X D

MW: 91.6 kDa

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. May also play a role in glia-glia or glia-neuron interactions in the developing peripheral nervous system.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222086