

## Product datasheet for **RR213549**

### **Nlgn3 (NM\_134336) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nlgn3 (NM_134336) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nlgn3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR213549 representing NM\_134336  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTGCAGCTCGGCTGCCCTCGTTGTCCCTGAGCCCCACGCCACAGTTGGCCGGAGCCTGTGCC  
 TCATCCTGTGGTTCCCTCAGTTTGGTGCTGAGGGCCAGTACCCAGGCCCGGCACCCACAGTCAACTCTCA  
 CTTTGGGAAACTAAGGGGTGCCAGAGTACCATTGCCCAGTGAAATCCTGGGTCTGTGGACCAATACCTG  
 GGGGTACCCTACGCAGCTCCCCGATCGGCGAGAAACGTTTCTGCCCTGAACCAACCCCATCTGGT  
 CGGGCATCCGGAACGCCACACACTTTCCCCAGTGTGCCCCAGAACATCCACACAGCTGTGCCGAAGT  
 CATGCTGCCAGTCTGGTCACTGCCAATTGGATATCGTCGCCACTTATATCCAGGAGCCCAACGAAGAT  
 TGCCTCTATCTGAATGTGTATGTGCCACGGAAGATGTAAGCGGATTTCCAAGGAATGCGCCCGAAAGC  
 CCAACAAGAAAATTTGTAGGAAAGGAGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATGA  
 CGGGGATGAAGATGAAGACATCCGAGACAGTGGTCTAAACCTGTCATGGTCTACATCCACGGAGGCTCT  
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 GCTCCTTGATCAAATCCAGGCCCTTCGCTGGGTGAGTGAGAACATTGCCTTCTTTGGAGGAGATCCCGT  
 AGAATTACTGTCTTTGGCTCTGGCATTGGTGCATCCTGTGTGAGTCTTCTCACACTGTCTCACTCTG  
 AGGGGCTTTTCCAGAGGGCCATCATCAAAGTGGCTCAGCGCTATCTAGCTGGGCTGTGAACTACCAACC  
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 TGAGACCCGCGTAAAACACTGGTGGCACTTCTACTGACCACCAGTGGGTGGAGCCTTCGGTGGTGA  
 GCTGATCTGCATGCCGCTATGGCTCACCCACTTACTTCTACGCCTTCTACCATCACTGCCAGAGCCTCA  
 TGAAGCCTGCATGGTCAAGTGCAGCACACGGGGATGAAGTACCCTATGTTTTTGGTGTCCCTATGGTAGG  
 TCCCACTGACCTTTCCCTGCAACTTCTCCAAGAATGATGTTATGCTCAGTGTGTTGTTATGACCTAT  
 TGGACCAACTTTGCCAAGACCGGGATCCCAACAAGCCGGTACCCAGGATACCAAGTTCATTACACCA  
 AGGCCAACCGCTTTGAGGAAGTAGCCTGGTCCAATACAATCCCGGGACCAGCTCTACCTTCACATCGG  
 GCTGAAACCAAGGGTTCGTGATCATTACCGAGCCACAAAGGTAGCCTTTTGAAGCACCTGGTACCCCAT  
 CTGTACAACTGCATGACATGTTCCACTATACATCCACGACCACGAAAGTGCCGCGCCGGACACCAACC  
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 CTACAGCAATGAGAATGCTCCTGGGTCTGGAATGGGGACCAGGATGCAGGGCCACTCCTGGTCGAGAAC  
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 TGACCCTGCGGCCTCCCCGATGACATCCCACTCATGACTCCCAACACCATCACTATGATTTCCCAATTC  
 CCTGGTTGGGTTGCAGACCTTGACCCCTATAACACCTTTGCCGCGGATTCAACAGCACCGGGCTGCC  
 CACTCACACTCCACTACCCGTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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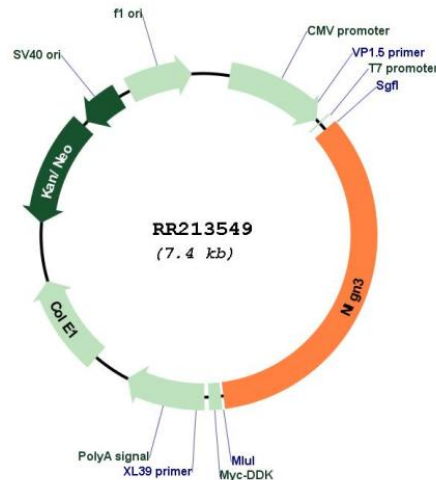
**Protein Sequence:** >RR213549 representing NM\_134336  
Red=Cloning site Green=Tags(s)

MWLQLGLPSLSLSPPTPTVGRSLCLILWFLSLVLRASQTAPAPT VNTHFGKLRGARVPLPSEILGPVDQYL  
GVPYAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNED  
CLYLVNYYPTEDVKRISKECARKPNKKICRKGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGS  
YMEGTGNMIDGSVLASYGNVIVITLNYRVGVLGFLSTGDQAAKGNYGLLDQIQALRWVSENI AFFGGDPR  
RITVFGSGIGASCVSLLTLSSHSEGLFQRAIIQSGSALSSWAVNYQPVKYTSLLADKVGCNVLDTVDMVD  
CLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGEFLNYDIMLGVNQGEGLKFVEGVVDP  
EDGVSGETDFDYSVSNFVDNLYGYPEGKDTLRETIKMYTDWADRDNPETRRKTLVALFTDHQWVEPSVVT  
ADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTDLFPCNF SKNDVMLS AVVMTY  
WTNFAKTGDPNKPVPQDTKF IHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATKVAFWKHLVPH  
LYNLHDMFHYTSTTTKVPPPDTHSSHITRRPNGKTWSTKRPAISPAYS NENAPGSWNGDQDAGPLLVEN  
PRDYSTELSVTIAVGASLLFLNVLAFAALYYRKDKRRQEPLRQPSQQRGTGAPELGT APEEELAALQLGP  
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLP  
HSHSTTRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_134336

**ORF Size:** 2544 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\\_134336.2](#), [NP\\_599163.2](#)

**RefSeq Size:** 3166 bp

**RefSeq ORF:** 2547 bp

**Locus ID:** 171297

**UniProt ID:** [Q62889](#)

**Cytogenetics:** Xq22

**MW:** 93.9 kDa

**Gene Summary:** neuronal cell surface protein that binds neurexins [RGD, Feb 2006]