

## Product datasheet for **RG204671**

### Neuroigin 4 (NLGN4X) (NM\_181332) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4X) (NM_181332) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NLGN4X
Synonyms:	ASPGX2; AUTSX2; HLNX; HNL4X; NLGN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204671 representing NM\_181332  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCACGGCCCCAGGGACTGCTATGGCTTCCTTTGTTGTTACCCCGGTCTGCGTCATGTTAAACTCCA  
 ATGTCCTCCTGTGGTTAACTGCTCTTGCCATCAAGTTCACCCCTATTGACAGCCAAGCACAGTATCCAGT  
 TGCAACACAAATTATGGCAAAATCCGGGGCCTAAGAACACCGTTACCCAATGAGATCTTGGGTCCAGTG  
 GAGCAGTACTTAGGGGTCCCCTATGCCTCACCCCCACTGGAGAGAGCGGTTTCAGCCCCAGAACCCC  
 CGTCTCCTGGACTGGCATCCGAAATACTACTCAGTTTGTGCTGTGCCCCCAGCACCTGGATGAGAG  
 ATCCTTACTGCATGACATGCTGCCCATCTGGTTTACCGCAATTTGGATACTTTGATGACCTATGTTCAA  
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 CTCGCTGCCAACTTCGTGGACAACCTTTACGGCTACCCTGAAGGAAAGACACTTTGCGGGAGACTATC  
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 GATGAGGTCCCCTATGTCTTCGGCATCCCATGATCGGTCCCACCGAGCTCTTCAAGTGTAACTTTTCCA  
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 TCAACCAGTTCCTCAGGATACCAAGTTCATTACACAAAACCCAAACCGCTTTGAAGAAGTGGCTGGTCC  
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 AAGATATGGCAAACCAAAACGCCAGCAATCACTCCTGCCAACAATCCCAAACACTCTAAGGACCCCTC  
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 TCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCTGGAACACGATCACGAGTGTGAGTCCGCTGCA  
 GGCACACGACACTGAGGCTCACCTGCCCGCCAGACTACACCTCACGCTGCGCCGGTCCGACAGATGAC  
 ATCCCACTTATGACGCCAAACACCATCACCATGATTCCAACACACTGACGGGGATGCAGCTTTGCACA  
 CTTTTAACACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCACCCTAGAGTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

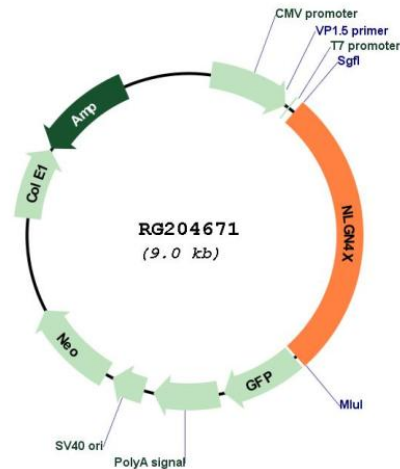
**Protein Sequence:** >RG204671 representing NM\_181332  
 Red=Cloning site Green=Tags(s)

```
MSRPQGLLWPLLFTPVCVMLNSNVLLWLTALAIKFTLIDSQAQYPVVNTNYGKIRGLRTPLPNEILGPV
EQYLGVPYASPTGERRFPPEPPSSWTGIRNTTQFAAVCPQHLDERSLLHDMLPIWFTANLDTLMTYVQ
DQNEDECLYLNIYVPTEDDIHDQNSKKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGF
LSTGDQAAKGNYGLLDQIQALRWIEENVGAFGGDPKRVTFGSGAGASCVSLTLTSHYSEGLFQKAIQS
GTALSSWAVNYQPAKYTRILADKVGCMMLDTTDMVECLRNKNYKELIQQTITPATYHIAFGPVIDGDVIP
DDPQILMEQGEFLNYDIMLGVNQGEGLKFVDGIVDNEGDVTPNDFDFSVSNFVDNLYGYPEGKDTLRETI
KFMYTDWADKENPERRKTLVALFTDHQWVAPAVATADLHAQYGSPTYFYAFYHHCQSEMKPSWADSAHG
DEVYVYVFGIPMIGPTELFSCNFSKNDVMSAVVMTYWTFNAKTGDPNQVPVQDTKFIHTKPNRFEEVAWS
KYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNLNEIFQYVSTTTKVPDDMTSFPYGTTRSPA
KIWPTTKRPAITPANNPKHSDPHKTGPEDTTVL IETKRDYSTE SVTIAVGASLLFLNILAFAALYYKK
DKRRHETHRRPSPQRNTTNDIAHIQNEEIMSLQMKQLEHDHECESLQAHTLRLTCPDPYTLTLRRSPDD
IPLMTPNTITMIPNTLTGMQPLHTFNTFSGGQNSTNLPHGHSTTRV
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_181332

**ORF Size:** 2448 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\\_181332.1](#), [NP\\_851849.1](#)

**RefSeq Size:** 5672 bp

**RefSeq ORF:** 2451 bp

**Locus ID:** 57502

**UniProt ID:** [Q8N0W4](#)

**Cytogenetics:** Xp22.32-p22.31

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs)

**Gene Summary:** This gene encodes a member of the type-B carboxylesterase/lipase protein family. The encoded protein belongs to a family of neuronal cell surface proteins. Members of this family may act as splice site-specific ligands for beta-neurexins and may be involved in the formation and remodeling of central nervous system synapses. The encoded protein interacts with discs large homolog 4 (DLG4). Mutations in this gene have been associated with autism and Asperger syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]