

## Product datasheet for **RG239621**

### Neuroigin 4 (NLGN4X) (NM\_001282145) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4X) (NM_001282145) 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:**

>RG239621 representing NM\_001282145.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
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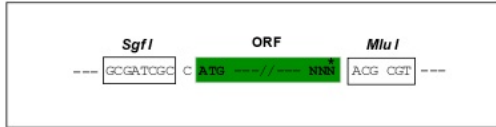
**Protein Sequence:** >Peptide sequence encoded by RG239621  
Blue=ORF Red=Cloning site Green=Tag(s)

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VEQYLGVPYASPTGERRFQPPEPPSSWTGIRNTTQFAAVCPQHLDERSLLHDMLPIWFTANLDTLMTY  
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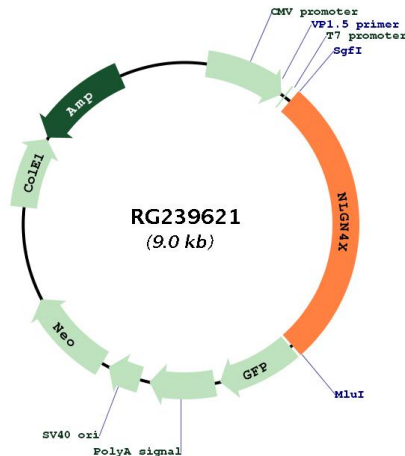
**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



<i>EcoRI</i>	<i>BamHI</i>   <i>KpnI</i>	RBS	<i>Kozac Consensus</i>	<i>SgfI</i>	<i>AscI</i>
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT					
<i>HindIII</i>	<i>NheI</i>   <i>RsrII</i>	<i>MluI</i>	<i>NotI</i>	<i>XhoI</i>	GFP Tag
CAAGCTTAACTAGCTAGCGGACCG <u>ACG CGT</u> ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---					
T R T R P L E <u>M E S D</u> - - -					
<i>PmeI</i>   <i>FseI</i>					
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT					
- - - E E R V Stop					

**Plasmid Map:**


<b>ACCN:</b>	NM_001282145
<b>ORF Size:</b>	2448 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001282145.1</a> , <a href="#">NP_001269074.1</a>
<b>RefSeq Size:</b>	6196 bp
<b>RefSeq ORF:</b>	2451 bp
<b>Locus ID:</b>	57502
<b>UniProt ID:</b>	<a href="#">Q8N0W4</a>
<b>Cytogenetics:</b>	Xp22.32-p22.31
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>MW:</b>	91.9 kDa

**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]