

## Product datasheet for **RG239622**

### Neuroigin 4 (NLGN4X) (NM\_001282146) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4X) (NM_001282146) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG239622 representing NM\_001282146.  
 Blue=ORF Red=Cloning site Green=Tag(s)

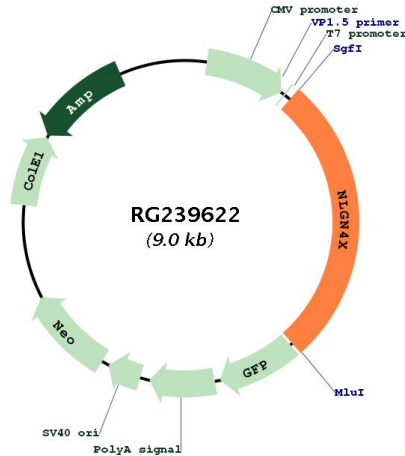
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGTCACGGCCCCAGGGACTGCTATGGCTTCCTTTGTTGCCCCGGTCTGCGTCATGTTAAACTCC
AATGTCCTCTGTGGTTAACTGCTCTTGCCATCAAGTTCACCCTATTGACAGCCAAGCACAGTATCCA
GTTGTCAACACAATTATGGCAAAATCCGGGGCCTAAGAACACCGTTACCAATGAGATCTTGGGTCCA
GTGGAGCAGTACTTAGGGGTCCCTATGCCTACCCCCCACTGGAGAGAGCGGTTTCAGCCCCAGAA
CCCCGTCCTCTGGACTGGCATCCGAAATACTACTCAGTTTGCTGCTGTGTGCCCCAGCACCTGGAT
GAGAGATCCTTACTGCATGACATGCTGCCATCTGGTTTACCGCCAATTTGGATACTTTGATGACCTAT
GTTCAAGATCAAATGAAGACTGCCTTTACTTAAACATCTACGTGCCACGGAAGATGATATTATGAT
CAGAACAGTAAGAAGCCCGTCATGGTCTATATCCATGGGGATCTTACATGGAGGGCACCGGCAACATG
ATTGACGGCAGCATTTTGGCAAGCTACGAAACGTCATTGTGATCACCATTAACACCGTCTGGGAATA
CTAGGGTTTTTAAGTACCGGTGACCAGGCAGAAAAGGCAACTATGGGCTCCTGGATCAGATTCAAGCA
CTGCGGTGGATTGAGGAGAATGTGGGAGCCTTTGGCGGGACCCCAAGAGAGTGACCATCTTTGGCTCG
GGGCTGGGGCCTCCTGTGTCAGCCTGTTGACCCTGTCCCACTACTCAGAAGGTCTCTTCCAGAAGGCC
ATCATTAGAGCGGCACCGCCCTGTCCAGCTGGGAGTGAACACCAGCCGGCAAGTACACTCGGATA
TTGGCAGACAAGTCCGCTGCAACATGCTGGACACCACGGACATGGTAGAATGCCTGCGGAACAAGAAC
TACAAGGAGTCTATCCAGCAGACCATCACCCCGGCCACCTACCACATAGCCTTCGGGCGGTGATCGAC
GGCGACGTATCCAGACGACCCAGATCCTGATGGAGCAAGGCGAGTTCCTCAACTACGACATCATG
CTGGGCGTCAACCAAGGGGAAGGCCTGAAGTTCGTGGACGGCATCGTGGATAACGAGGACGGTGTGACG
CCCAACGACTTTGACTTCTCCGTGTCACACTTCGTGGACAACCTTACGGCTACCTGAAGGGAAAGAC
ACTTTGCGGGAGACTATCAAGTTCATGTACACAGACTGGGCCGATAAGGAAAACCCGGAGACGCGGCGG
AAAACCTGGTGGCTCTCTTTACTGACCACAGTGGGTGGCCCCCGCGTGGCCACCGCCGACTGCAC
GCGCAGTACGGCTCCCCACCTACTTCTATGCCTTCTATCATCACTGCCAAAGCGAAATGAAGCCAGC
TGGGCAGATTCGGCCATGGTATGAGGTCCCCTATGTCTTCGGCATCCCATGATCGGTCCCACCGAG
CTTTCAGTTGTAACTTTTCAAGAACGACGTATGCTCAGCGCCGTGGTATGACCTACTGGACGAAC
TTCGCCAAAACCTGGTATCCAAATCAACAGTTCCTCAGGATACCAAGTTCATTCACACAAAACCCAAC
CGCTTTGAAGAAGTGGCCTGGTCCAAGTATAATCCAAAGACCAGCTCTATCTGCATATTGGCTTGAAA
CCCAGAGTGAGAGATCACTACCGGGCAACGAAAGTGGCTTCTGGTTGGAACCTGTTCTCATTTGCAC
AACTTGAACGAGATATCCAGTATGTTTCAACAACCACAAAGTTCCTCCACCAGACATGACATCATTT
CCCTATGGCACCCGCGATCTCCCGCAAGATATGGCCAACCACCAACGCCAGCAATCACTCCTGCC
AACAAATCCAAAACACTCTAAGGACCCTCACAAAACAGGGCCTGAGGACACAACCTGTCTCATTGAAACC
AAACGAGATTATCCACCGAATTAAGTGTACCAATTGCCGTGGGGCGTCCGCTCTTCTCAACATC
TTAGCTTTTGGCGCCTGTACTACAAAAAGGACAAGAGGCGCCATGAGACTCACAGGCGCCCCAGTCCC
CAGAGAAACACCACAAATGATATCGCTCACATCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAG
CTGGAACACGATCAGAGTGTGAGTCCGCTGCAGGCACACGACACTGAGGCTCACCTGCCCGCCAGAC
TACACCCTCACGCTGCGCCGGTCCGAGATGACATCCCCTTATGACGCCAAACACCATCACCATGATT
CCAAACACTGACGGGGATGCAGCCTTTGCACACTTTTAAACCTTTCAGTGGAGGACAAAACAGTACA
AATTTACCCACGGACATTCCACCACTAGAGTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239622  
Blue=ORF Red=Cloning site Green=Tag(s)

MSRPQGLLWLP LLFTPVCVMLNSNVLLWLTALAIKFTLIDSQAQYPVVNTNYGKIRGLRTPLPNEILGP  
VEQYLGVPYASPTGERRFQPPEPPSSWTGIRNTTQFAAVCPQHLDERSLLHDMLPIWFTANLDTLMTY  
VQDQNEDECLYLNIIYVPTEDDIHDQNSKKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGI  
LGFLSTGDQAAKGNYGLLDQIQALRWIEENVGAFGGDPKRVTFGSGAGASCVSLLTL SHYSEGLFQKA  
IIQSGTALSSWAVNYQPAKYTRILADKVGCMMLDTTDMVECLRKNKYKELIQQTITPATYHIAFGPVID  
GDVIPDDPQILMEQGEFLNYDIMLGVNQGEGLKFVDGIVDNEGDVTPNDFDFSVSNFVDNLYGYPEGKD  
TLRETIKFMYTDWADKENPERRKTLVALFTDHQWVAVATADLHAQYGSPTYFYAFYHHCQSEM KPS  
WADSAHGDEVYVFGIPMIGPTELFSCNF SKNDVMLS AVVMTYWTNFAKTGDPNQVPVQDTKFIHTKPN  
RFEEVAWSKYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNLNEIFQYVSTTTKVPPDMTSF  
PYGTRRSPAKIWPPTTKRPAITPANNPKHSDPHKTGPEDTTVL IETKRDYSTELSVTIAVGASLLFLNI  
LAF AALYYKKDKRRRHETHRRPSPQRNTTNDIAHIQNEEIMSLQMKQLEHDHECESLQAHDTLRLTCPPD  
YTLTLRRSPDDIPLMTPNTITMIPNTLTGMQPLHTFNTFSGGQNSTNLPHGHSTTRV  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPEP  
SVIFTDKIIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-Mlul



**Plasmid Map:**


<b>ACCN:</b>	NM_001282146
<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_001282146.1</a> , <a href="#">NP_001269075.1</a>
<b>RefSeq Size:</b>	5871 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]