

Product datasheet for **SC124784**

Neuroigin 4 (NLGN4X) (NM_181332) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4X) (NM_181332) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroigin 4
Synonyms:	ASPGX2; AUTSX2; HLNX; HNL4X; NLGN4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_181332, the custom clone sequence may differ by one or more nucleotides

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ATGTCACGGCCCCAGGGACTGCTATGGCTTCCTTTGTTGTTACCCCGGTCTGCGTCATGTTAAACTCCA
ATGTCCTCTGTGGTAACTGCTCTTGCCATCAAGTTCACCTCATTGACAGCCAAGCACAGTATCCAGT
TGTC AACACAAAATATGGCAAAATCCGGGGCCTAAGAACACCGTTACCCAATGAGATCTTGGGTCCAGTG
GAGCAGTACTTAGGGTCCCCTATGCCTCACCCCCACTGGAGAGAGCGGTTTACGCCCCAGAACCCC
CGTCCTCTGGACTGGCATCCGAAATACTACTCAGTTTGTGCTGTGTGCCCCAGCACCTGGATGAGAG
ATCCTTACTGCATGACATGCTGCCATCTGGTTTACCGCCAATTTGGATACTTTGATGACCTATGTTCAA
GATCAAAATGAAGACTGCCTTTACTTAAACATCTACGTGCCACGGAAGATGATATTCATGATCAGAACA
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CAGCATTTTGGCAAGCTACGAAACGTCATCGTGATCACCATTAACCTACCGTCTGGGAATACTAGGGTTT
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TTGAGGAGAATGTGGGAGCCTTTGGCGGGACCCCAAGAGAGTGACCATCTTTGGCTCGGGGGCTGGGGC
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GGCACCGCCCTGTCCAGCTGGGAGTGAACCTACCAGCCGCAAGTACACTCGGATATTGGCAGACAAGG
TCGGCTGCAACATGCTGGACACCACGGACATGGTAGAATGCCTGCGGAACAAGAACTACAAGGAGCTCAT
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GACGACCCCCAGATCCTGATGGAGCAAGGCGAGTTCCTCAACTACGACATCATGCTGGGCGTCAACCAAG
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AAGTTCATGTACACAGACTGGGCCGATAAGGAAAACCCGGAGACGCGGGGAAACCCCTGGTGGCTCT
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GATGAGGTCCCCTATGTCTTCGGCATCCCCATGATCGGTCCCACCGAGCTCTTCAGTTGTAACCTTTCCA
AGAACGACGTCATGCTCAGCGCCGTGGTACGACCTACTGGACGAACTTCGCCAAAACCTGGTGATCCAAA
TCAACCAGTTCCTCAGGATACCAAGTTCATTCACACAAAACCCAAACCGCTTTGAAGAAGTGGCCTGGTCC
AAGTATAATCCCAAAGACCAGCTCTATCTGCATATTGGCTTGAACCCAGAGTGAGAGATCACTACCGGG
CAACGAAAGTGGCTTTCTGGTTGAACTCGTTCCTCATTTGCACAACTTGAACGAGATATCCAGTATGT
TTCAACAACCACAAAGGTTCTCCACCAGACATGACATCATTTCCCTATGGCACCCGGCGATCTCCCGCC
AAGATATGGCCAACCACCAACGCCAGCAATCACTCCTGCCAACAATCCAAACACTCTAAGGACCCCTC
ACAAAACAGGGCCTGAGGACACAACCTGTCTCATTGAAACCAAACGAGATTATCCACCGAATTAAGTGT
CACCATTGCCGTGGGGCGTCTGCTCCTCTTCTCAACATCTTAGCTTTTGGCGGCTGTACTACAAAAG
GACAAGAGGGCCATGAGACTCAGAGCGCCCCAGTCCCAGAGAAAACACCACAAATGATATCGCTCACA
TCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCTGGAACACGATCACGAGTGTGAGTCTGCA
GGCACACGACACTGAGGCTCACCTGCCCGCCAGACTACACCCTCACGCTGCGCCGGTCCGCAGATGAC
ATCCCCTTATGACGCCAAACACCATCACCATGATTCAAAACACTGACGGGGATGCAGCCTTTGCACA
CTTTTAAACACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCACCACCTAGAGTATA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181332 unedited ACGACTCTATAGGCGGCCGCGACATTCGCACGAGGAAACACGAATTTCTCCAACTAG GCGGTGTTGGTGGCTCTTGCACTTCTCTGGATGAGGAAATCTAGTTGGGGGTTCCAGAA GGGGAAGGCTCCTGGGCTTTCAATACATCCTCCTGAATCATACCTCGTTTCGGGTTCCCT AGAAAAATCTGGACGTGTAAAAAGAACTTTAACGGCCGATGCAGCTCTTCCAAAGCTAA GGCTGCCTTGGAGTTTTATAAGAAATTGTCCTGGAGGTGTTGGATGATCACAGCTTCC TTGGAGCATTGCAGTTGCTGGAATCCAGTTTCAGGATTAAGGGAGGCTGCCTCCTTGCA ATGGGCTGCCAAGAAAACGGCTGTGCTTGTCTTAACCTCAGGCTCTGTCTGTGATCAGT CTGAGAGTCTCTCCAGGTCTACTGCTCCCTGGAAGCCCTATCTCTCTGCAGGCTCGCC TCTGGGCTTTGTCTCCTTGAGCCACATCACTGGGACAGCTGTGGATGTGGATGCAGATT TGAACCATGTCACGGCCCGAGGACTGCTATGGCTTCTTTGTTGTTACCCCGGTCTGC GTCATGTTAACTCCAATGTCCTCCTGTGGTAACTGCTCTTGCCATCAAGTTCACCTC ATTGACAGCCAAGCACAGTATCCAGTTGTCAACACAAATTATGGCAAAATCCGGNGCCTA AGAACACCGTTACCAATGAGATCTTGGGTCCAGTGGAGCAGACTTAGGGGGTCCCTTAT GCCTCACCCCACTGGAAGAAGGCGTTTTTCAGCCAGACCCCGTCTNCTGACTGGCATC GAAACTACTCAGNTGCTGCTTGGGGCCCACTGATGGAACCTTATGATGACTGCTG CCATTTGGGTTACGCAATTGAACTTTGAGACTAGTTCAGACAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_181332
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	Q8NOW4
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]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 3. Variants 1, 2, 3, and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.