

Product datasheet for **SC320970**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_181332.1
 AGAAGGGGAAGGCTCCTGGGCTTTCAATACATCCTCCTGAATCATACCTCGTTTCGGGTT
 CCCTAGAAAAATCTGGAGTGTAAAAAGAAGCTTAAACGCCGATGCAGCTCTTCCAAG
 CTAAGGCTGCCTTGGAGTTTTCATAAGAAATTGCCCTGGAGGTGTTGGATGATCACAGC
 TTCCTTGGAGCATTGCAGTTGCTGGAATCCAGTTTCAGGATTAAGGGAGGGCTGCCTCCT
 TGCAATGGGCTGCCAAGAAAACGGCTGTGCTTGTCTTAACTCAGGCTCTGTCTGTGAT
 CAGTCTGAGAGTCTCTCCAGGTCTACTGCTCCCTGAAAAGCCCTATCTCTGCAGGCT
 CGCCTCTGGGCTTTGTCTCCTTGGAGCCACATCACTGGGACAGCTGTGGATGTGGATGCA
 GATTTGAACCATGTCACGGCCCCAGGGACTGCTATGGCTTCCTTTGTTGTTACCCCGGT
 CTGCGTCAATGTTAACTCCAATGCTCCTCCTGTGGTTAACTGCTCTGCCATCAAGTTCAC
 CCTCATTGACAGCCAAGCACAGTATCCAGTTGTCAACACAAATTATGGCAAAATCCGGGG
 CCTAAGAACACCGTTACCCAATGAGATCTTGGGTCCAGTGGAGCAGTACTTAGGGGTCCC
 CTATGCCTCACCCCACTGGAGAGAGGCGGTTTCAGCCCCAGAACCCCGTCCCTCCTG
 GACTGGCATCCGAAATACTACTAGTTTGTGCTGTGTGCCCCAGCACCTGGATGAGAG
 ATCCTTACTGCATGACATGCTGCCATCTGGTTTACCGCAATTTGGATACTTTGATGAC
 CTATGTTCAAGATCAAAATGAAGACTGCCTTACTTAAACATCTACGTGCCACCGAAGA
 TGATATTCATGATCAGAACAGTAAGAAGCCCGTCATGGTCTATATCCATGGGGGATCTTA
 CATGGAGGGCACCGCAACATGATTGACGGCAGCATTTTGGCAAGCTACGGAAACGTCAT
 TGTGATCACCATTAACCTACCGTCTGGGAATACTAGGGTTTTTAAGTACCGGTGACCAGGC
 AGCAAAAAGGCAACTATGGGCTCCTGGATCAGATTCAAGCACTGCGGTGGATTGAGGAGAA
 TGTGGGAGCCTTTGGCGGGGACCCCAAGAGAGTACCATCTTTGGCTCGGGGGCTGGGGC
 CTCCTGTGTCAGCCTGTTGACCTGTCCCACTACTCAGAAGGTCTCTTCCAGAAGGCCAT
 CATTGAGAGCGGCACCGCCTGTCCAGCTGGGCAGTGAATACCAGCCGGCCAAGTACAC
 TCGGATATTGGCAGACAAGGTCGGCTGCAACATGCTGGACACCACGGACATGGTAGAATG
 CCTGCGGAACAAGAACTACAAGGAGCTCATCCAGCAGACCATCACCCGGCCACCTACCA
 CATAGCCTTCGGGCCGGTATCGACGGCAGTCACTCCAGACGACCCCAAGATCCTGAT
 GGAGCAAGGCGAGTTCCTCAACTACGACATCATGCTGGGCGTCAACCAAGGGGAAGGCT



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GAAGTTCGTGGACGGCATCGTGGATAACGAGGACGGTGTGACGCCCAACGACTTTGACTT
 CTCCTGTCCAACCTTCGTGGACAACCTTTACGGCTACCCTGAAGGAAAGACACTTTGCG
 GGAGACTATCAAGTTCATGTACACAGACTGGGCCGATAAGGAAAACCCGGAGACGGCGG
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 CGACCTGCACGGCAGTACGGCTCCCCACCTACTTCTATGCCTTCTATCATCACTGCCA
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 TCAACCAGTTCCTCAGGATACCAAGTTCATTACACAAAACCCAAACCGCTTTGAAGAAGT
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 AGTGAGAGATCACTACCGGGCAACGAAAGTGGCTTTCTGGTTGGAACCTGTTCTCATT
 GCACAACCTGAACGAGATATTCCAGTATGTTTCAACAACCACAAAGGTTCTCCACCAGA
 CATGACATCATTCCCTATGGCACCCGGCGATCTCCCGCAAGATATGGCCAACCACCAA
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 GCCTGAGGACACAACCTGTCTCATTGAAACCAAACGAGATTATTCCACCGAATTAAGTGT
 CACCATTGCCGTGGGGGCTCGCTCCTCTCTCAACATCTTAGCTTTTGCGGCGCTGTA
 CTACAAAAGGACAAGAGGCGCCATGAGACTCACAGGCGCCCCAGTCCCCAGAGAAAACAC
 CACAAATGATATCGCTCACATCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCT
 GGAACACGATCACGAGTGTGAGTCGCTGCAGGCACACGACACACTGAGGCTCACCTGCC
 GCCAGACTACACCCTCACGCTGCGCCGGTGCAGATGACATCCCACTTATGACGCCAAA
 CACCATCACCATGATTCCAAACACACTGACGGGGATGCAGCCTTGCACACTTTTAACAC
 CTTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCACCACCTAGAGTATA
 GCTTTGCCCTATTTCCCTTCTATCCCTCTGCCCTACCCGCTCAGCAACATAGAAGAGGG
 AAGGAAAAGAGAGAAGGAAAGAGAGAGAGAAGAAAGTCTCCAAACCAGGAATGTTTTGT
 CCCACTGACTTAAGACAAAATGCAAAAAGGCAGTCATCCATCCCGGCAGACCCTTATC
 GTTGGTGTTCAGTATTACAAGATCAACTTCTGACCCTGTGAAATGTGAGAAGTACAC
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 CTGTGCCACACAATGGATGGCTCTCCTAAGTGAAGAAAGAGTCAATGAGATTTTGCCCA
 GCACATGGAGCTGTAATCCAGAGAGAAGGAAACGTAGAAATTTATTAAAAGAATGGA
 CTGTGCAGCGAAATCTGTACGGTCTGTGCAAAGAGGTGTTTTGCCAGCCTGAACATAT
 TTAAGAGACTTTGTA AAAAAGAAAAATGTATATAGCTGTGAGTTTAAACAAAACCAAA
 ACAGACAAAACAGAAAAAAGCTTTTATTGGTGTTTTCACTTTGAAAGAGCTTTTAGCAA
 GGTTGTGCTTTTCATTGTGCTCTGTACGTATATAAATATATATATATACACACACACA
 CACACATTAGTCATATCACCTCTGTTTCTCCCAACAAAAGAGGCTTTTCTTCTAATT
 ACTTGTGGTAAACAAAGACATGGGATTTTCTTACATGAGATTCTCATTGTAGGAGGATG
 TGATGTCCACAGAAGACCCAGACGGTCTGTGTGGCCTATTTCCCGCTCAGGTTGCACA
 GGTGCATGCAAGAGCATTCTTAGGAGACCACTGTTTTGAAAACTTTTGACTTGTACGTG
 TTAGCCTTCATGAAATTGCAGTACAGAGATGGTCCCAAAAGTGGAGTGTATTTACAGCT
 TGTTAAATTAGAGACATGCACACAAAAGAAATCAGTAGGGAGAAAACAAAATACAAGTCC
 CGTTCTGTAGCTGTGCCCTTTGAATATGTTTAGGAAGAGTTGCTTCCCATTTACAGGCC
 CTGCCAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_181332.1</u> , <u>NP_851849.1</u>
RefSeq Size:	5672 bp
RefSeq ORF:	2451 bp
Locus ID:	57502
UniProt ID:	<u>Q8N0W4</u>
Cytogenetics:	Xp22.32-p22.31
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	<p>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]</p> <p>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.</p>