

Product datasheet for **SC127514**

Neuroigin 4 (NLGN4X) (NM_020742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4X) (NM_020742) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroigin 4
Synonyms:	ASPGX2; AUTSX2; HLNX; HNL4X; NLGN4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127514 sequence for NM_020742 edited (data generated by NextGen Sequencing)

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ATGTCACGGCCCCAGGGACTGCTATGGCTTCTTTGTTGTTACCCCCGGTCTGCGTCATG
TTAAACTCCAATGTCTCTCTGTGGTTAACTGCTTTGCCATCAAGTTCACCTCATTGAC
AGCCAAGCACAGTATCCAGTTGTCAACACAAATATGGCAAAATCCGGGGCCTAAGAACA
CCGTTACCCAATGAGATCTTGGGTCCAGTGGAGCAGTACTTAGGGGTCCCCTATGCCTCA
CCCCCACTGGAGAGAGGGCGTTTCAGCCCCCAGAACCCCCGTCCTCTGGACTGGCATC
CGAAATACTACTCAGTTTGTCTGTGTGCCCCAGCACCTGGATGAGAGATCCTTACTG
CATGACATGCTGCCATCTGTTTACCGCCAATTTGGATACTTTGATGACCTATGTTCAA
GATCAAAATGAAGACTGCCTTTACTTAAACATCTACGTGCCACGGAAGATGATATTCAT
GATCAGAACAGTAAGAAGCCCGTCATGGTCTATATCCATGGGGGATCTTACATGGAGGGC
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ATTAACTACCGTCTGGGAATACTAGGGTTTTTAAGTACCGGTGACCAGGCAGCAAAGGC
AACTATGGGCTCCTGGATCAGATTCAAGCACTGCGGTGGATTGAGGAGAATGTGGGAGCC
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AGCCTGTTGACCTGTCCCACTACTCAGAAGGTCTCTCCAGAAGGCCATCATTAGAGC
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GCAGACAAGTCCGGTGCACATGCTGGACACCACGGACATGGTAGAATGCCTGCGGAAC
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CCTCAGGATACCAAGTTCATTAYACAAAACCAACCGCTTTGAAGAAGTGGCCTGGTCC
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CACTACCGGGCAACGAAAGTGGCTTTCTGGTTGGAACCTGTTCCCTCATTGCACAACCTG
AACGAGATATTCCAGTATGTTTCAACAACCACAAAGGTTCTCCACCAGACATGACATCA
TTTCCCTATGGCACCCGGCGATCTCCCGCCAAGATATGGCCAACCACAAACGCCAGCA
ATCACTCTGCCAAATCCCAAACTCTAAGGACCCTCACAAAACAGGGCCYAGGAC
ACAACGTCTCATTGAAACCAACGAGATTATCCACCGAATTAAGTGTACCATTGCC
GTCGGGGCGTCTCTCTTCTCAACATCTTAGCTTTTGGCGCGCTGTACTACAAAAG
GACAAGAGGGCCATGAGACTCACAGGCRCCCCAGTCCCAGAGAAACACCACAAATGAT
ATCRCTCACATCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCTGGAACACGAT
CACGAGTGTGAGTCGCTGCAGGCACACGACACRCTGAGGCTCACCTGCCCKCCAGACTAC
ACCCTCACGCTGCGCCGGTCCGACAGATGACATCCCACTTATGACGCCAAACACCATCACC
ATGATTCCAAACACACTGACGGGGATGCAGCCTTTGCACACTTTTAAACCTTCAGTGG
GGACAAAACAGTACAAATTTACCCACGGACATTCACCACCTAGAGTATAG

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Clone variation with respect to NM_020742.2

846 c=>y;1341 c=>y;1470 t=>y;1515 c=>m;1560 c=>y;1569 c=>s;1644 c=>y;1974 t=>y;2129 g=>r;2164 g=>r;2253 a=>r;2271 g=>k

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020742 unedited</p> <pre> NGGGGGGGGGGNNNNNNNGGNTCNNCCNNNNTTTATTACACCCGCCCGTTGNCGCAAA GGGCGGTAGGCGGTACGGTGGNGAGTCTATATAAGCAGAGCTCATTTAGGTGACTAT AGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCAATTCGGCACGAGGGGAGAGGAG GAAAAAATATATGTATCTGCAGTACAGGGAGAAGAAGGAGAGAAGCGCCAGGGCTG GAGATGGTGAAGGCAGGAAGACTTCTGCAAAGTGTGAGGCTGCCTGGAGTTTTTCATAAG AAATTGTCCTGGAGGTGGATGATCACAGCTTCCCTGGAGCATTGCAGTTGCTGGAA TCCAGTTTCAGGATTAAGGGAGGGCTGCCTCCTTGAATGGGCTGCCAAGAAAACGGCTG TGCTTGTCTTAACTCAGGCTCTGTCTGTGATCAGTCTGAGAGTCTCTCCAGGTCTAC TGCTCCCTGGAAAGCCCTATCTCTCTGCAGGCTCGCCTCTGGGCTTTGTCTCCTTGGAGC CACATCACTGGGACAGCTGTGGATGTGGATGCAGATTTGAACCATGTCACGGCCCCAGGG ACTGCTATGGCTTCTTTGTTGTTACCCCGTCTGCGTCATGTTAACTCCAATGCTCT CCTGTGGTAACTGCTCTGGCCATCAAGTTCACCCCTATTGACAGCCAAGCACAGTATCC AGTTGTCAACACAAATTATGGCANAATCCGGGGCCTAAGAACACCGTTACCCAATGAGAT CTTGGGTCCAGTGGAGCAGTACTTAAGGGTCCCCTATGCCTCACCCCACTGGAGAGAGG CGGTTTACAGCCCCAAACCCCGTCTCCTGGACTGGCATNNCGAATACTACTCAGTTTG CTGCTGTGTGCCCCAGCACCTGGATGAGAGACCTTACTGC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020742 unedited</p> <pre> CTATGTACGGCCGCATTTAGNATCGAGTTTTTTTTCTTTTTTTTCAATTTTTTTTC TTTTTCTTTTTTATAGATAGCAAGTATTTTTTCTCATAGAAGTCTATGAAGATTC TATAACTCTTTCCATGTAGAAATAAGATATCATTTAAGATGTACTAAAATCACTTTTGA TCATAATCCCCTGTAAAAGCTAAAGTTATCACTTAACAGGAAGTCTGTTTTTCTTATT CAAATGTCACAAGCCTGACGCGTACTGTACATATTGCTAGCAGGAGACAAGTGGAAATA CTAAACAATACTGGAATTCACATTACAGACAGACGAAACCAACATGGATGCCACACATA ACTTCTTTGTAGTTTACAGAGAGCCTATTTGTGGTTGCTCAGGTGGGGTCATACATTG CTTGACAGAAATGGCCTGATCATAGCTCTATGAAACAATGAATTCGGAATGAAATCTTACC ATGACACCTCTGTAGGAAAGAAATGTTGCTTACGTTGCTAAGTTGAGATAATAATA TTTACATATTTATACAGAGAATCACTCTCAAATTTAACCCAAGATAAGCAATAGGAT TTGGGGTGACTTGTACACATTTCTAANAACACTTTTTTTTTCTAGAGGTCACCTCA AACACTGATATATCACTATAGTTTGAGTGTAGGGATTCAGTAATCAAAGTTGTTATTGC ANAAGAGCCCAGCAGCTGGACAATTTTTATGGGGAATGCCACTTTAGCGNAGAGATTTA AGACTGGATTTCTAGAATAACCCANCATGGAGCCCAGAAACATGATCTCAATATCTTTG GCTACTGGTNNCTGGNNTATGCAATATTTTTCAAAAAGTATCCATGCTACTATGTNCCCT TNCCANNCTATACACTCAAAGTCTTCTGANATGAGNAGAGAAATGAAAATGACAGCTGT TGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_020742
Insert Size:	5500 bp
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:

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_020742.2](#), [NP_065793.1](#)

RefSeq Size: 5706 bp

RefSeq ORF: 2451 bp

Locus ID: 57502

UniProt ID: [Q8N0W4](#)

Cytogenetics: Xp22.32-p22.31

Domains: COesterase

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 (1) 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.