

## Product datasheet for **SC337516**

### Neuroigin 4 (NLGN4X) (NM\_001282146) Human Untagged Clone

#### Product data:

|               |  |
|---------------|--|
| Product Type: | Expression Plasmids                                      |
| Product Name: | Neuroigin 4 (NLGN4X) (NM_001282146) Human Untagged Clone |
| Tag:          | Tag Free   |
| Symbol:       | Neuroigin 4  |
| Synonyms:     | ASPGX2; AUTSX2; HLNX; HNL4X; NLGN4                       |
| Vector:       | <u>pCMV6 series</u>                                      |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282146, the custom clone sequence may differ by one or more nucleotides

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ATGTCACGGCCCCAGGGACTGCTATGGCTTCCTTTGTTGTTACCCCGGTCTGCGTCATGTTAAACTCCA
ATGTCCTCCTGTGGTAACTGCTCTTGCCATCAAGTTCACCCCTATTGACAGCCAAGCACAGTATCCAGT
TGTC AACACAAAATATGGCAAAATCCGGGGCCTAAGAACACCGTTACCCAATGAGATCTTGGGTCCAGTG
GAGCAGTACTTAGGGTCCCCTATGCCTCACCCCCACTGGAGAGAGCGGTTTACGCCCCAGAACCCC
CGTCTCCTGGACTGGCATCCGAAATACTACTCAGTTTGTGCTGTGTGCCCCAGCACCTGGATGAGAG
ATCCTTACTGCATGACATGCTGCCATCTGGTTTACCGCAATTTGGATACTTTGATGACCTATGTTCAA
GATCAAAATGAAGACTGCCTTTACTTAAACATCTACGTGCCACGGAAGATGATATTCATGATCAGAACA
GTAAGAAGCCCGTCATGGTCTATATCCATGGGGGATCTTACATGGAGGGCACCGGCAACATGATTGACGG
CAGCATTTTGGCAAGCTACGAAACGTCATCGTGATCACCATTAACCTACCGTCTGGGAATACTAGGGTTT
TTAAGTACCGGTACCAGGCAGCAAAAGGCAACTATGGGCTCCTGGATCAGATTCAGCACTGCGGTGGA
TTGAGGAGAATGTGGGAGCCTTTGGCGGGACCCCAAGAGAGTGACCATCTTTGGCTCGGGGGCTGGGGC
CTCCTGTGTGAGCCTGTTGACCCGTGCCACTACTCAGAAGGTCTCTCCAGAAGGCCATATTCAGAGC
GGCACC GCCCTGTCCAGCTGGGCAGTGAACCTACCAGCCGCAAGTACACTCGGATATTGGCAGACAAGG
TCGGCTGCAACATGCTGGACACCACGGACATGGTAGAATGCCTGCGGAACAAGAACTACAAGGAGCTCAT
CCAGCAGACCATCACCCCGCCACCTACCACATAGCCTTCGGGCCGGTGATCGACGGCGACGTCATCCCA
GACGACCCCCAGATCCTGATGGAGCAAGGCGAGTTCCTCAACTACGACATCATGCTGGGCGTCAACCAAG
GGGAAGGCCTGAAGTTCGTGGACGGCATCGTGGATAACGAGGACGGTGTGACGCCCAACGACTTTGACTT
CTCCGTGTCCAACCTTCGTGGACAACCTTACGGCTACCCTGAAGGAAAGACACTTTGCGGGAGACTATC
AAGTTCATGTACACAGACTGGGCCGATAAGGAAAACCCGGAGACGCGGGGAAACCCCTGGTGGCTCTCT
TTACTGACCACCAAGTGGGTGGCCCCGCCGTGGCCACCGCCGACCTGCACGCGCAGTACGGCTCCCCAC
CTACTTCTATGCCTTCTATCATCACTGCCAAAGCGAAATGAAGCCAGCTGGGCAGATTCGGCCATGGT
GATGAGGTCCCCTATGTCTTCGGCATCCCATGATCGGTCCCACCGAGCTCTTCAGTTGTAACCTTTCCA
AGAACGACGTCATGCTCAGCGCCGTGGTCATGACCTACTGGACGAACTTCGCCAAAACCTGGTGATCCAAA
TCAACCAGTTCCTCAGGATACCAAGTTCATTCACACAAAACCCACCGCTTTGAAGAAGTGGCCTGGTCC
AAGTATAATCCCAAAGACCAGCTCTATCTGCATATTGGCTTGAACCCAGAGTGAGAGATCACTACCGGG
CAACGAAAGTGGCTTTCTGGTTGAACTCGTTCCTCATTTGCACAACTTGAACGAGATATCCAGTATGT
TTCAACAACCACAAGGTTCTCCACCAGACATGACATCATTTCCCTATGGCACC CGCGATCTCCCGCC
AAGATATGGCCAACCACCAACGCCAGCAATCACTCCTGCCAACAATCCCAAACACTCTAAGGACCCCTC
ACAAAACAGGGCCTGAGGACACAACCTGTCTCATTGAAACCAAACGAGATTATTCACCCGAATTAAGTGT
CACCATTGCCGTGGGGCGTGCCTCCTCTCAACATCTTAGCTTTTGGCGCGCTGTACTACAAAAG
GACAAGAGGCGCCATGAGACTCAGAGCGCCCCAGTCCCAGAGAAAACACCACAAATGATATCGCTCACA
TCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCTGGAACACGATCACGAGTGTGAGTGCCTGCA
GGCACACGACACACTGAGGCTCACCTGCCCGCCAGACTACACCCTCACGCTGCGCCGGTGCAGATGAC
ATCCCCTTATGACGCCAAACACCATCACCATGATTCCAACACACTGACGGGGATGCAGCCTTTGCACA
CTTTTAAACACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCACCACCTAGAGTATA
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001282146

**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).

|                               |  |
|-------------------------------|--|
| <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>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u>NM_001282146.1, NP_001269075.1</u>  |
| <b>RefSeq Size:</b>           | 5871 bp  |
| <b>RefSeq ORF:</b>            | 2451 bp  |
| <b>Locus ID:</b>              | 57502  |
| <b>UniProt ID:</b>            | <u>Q8N0W4</u>  |
| <b>Cytogenetics:</b>          | Xp22.32-p22.31   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>Protein Pathways:</b>      | Cell adhesion molecules (CAMs)   |
| <b>Gene Summary:</b>          | <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 (4) 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> |