

Product datasheet for **SC306071**

Neurexin II alpha (NRXN2) (NM_138734) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurexin II alpha (NRXN2) (NM_138734) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurexin II alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_138734 edited
 CCGGGCCGAAATGCCCCCGGGGGAGCGGGCCGGGGGGTGCCTCGCCGCCGCCCCCGGC
 CCTGGCTGGGCCCTGCCGCCCTCCACCGCCGCCGCCACCTCTGCTGCCGCTGTT
 GCCGCTGTTGCTGCTGTTGCTGCTGGGGCGGGCCGAGGGGGCCGGGTCTCTCCAGCCT
 CAGCACCACCACACGTCCACCACTTCCACAGCAAGCACGGCACCGTGCCCATCGCCAT
 CAACCGCATGCCCTTCTCACCCGCGGGCCACGCGGGACCACATAACATCTTTGGGAA
 GGGGGAGCGCTCATCCTACAGTGGCCCCCAATGACAGGCCACGACGAGGATGGA
 TCGCCTGGCCGTGGGCTTCAGCACCCACAGCGGAGCGCTGTGCTGGTGGGGTGGACAG
 CGCCTCCGGCCTTGAGACTACCTGCAGCTGCACATCGACCAGGGCACCGTGGGGTGT
 CTTTAACGTGGGCACGGACGACATTACCATCGACGAGCCCAACGCCATAGTAAGCGACGG
 CAAATACCACGTGGTGCCTTCACTCGAAGCGCGGCAACGCCACCCTGCAGGTGGACAG
 CTGGCCGGTCAACGAGCGGTACCCGGCAGGAACTTTGATAACGAGCGCCTGGCGATTGC
 TAGACAGAGAATCCCCTACCGCTTGGTCGAGTAGTAGATGAGTGGTGTCTGACAAAGG
 CCGCCAGCTGACCATCTCAACAGCCAGGCTGCCATCAAGATCGGGGGCCGGGATCAGGG
 CCGCCCCCTCCAGGGCCAGGTGTCCGGCCTCTACTACAATGGGCTCAAGGTGCTGGCGCT
 GGCCGCCGAGAGCGACCCCAATGTGCGGACTGAGGGTACCTGCGCCTGTTGGGGAGGG
 GCCGTCCGTGCTGCTCAGTGCAGGAGACCACGGCCACCACCTGCTGGTGCATGGCCAC
 CACCATCATGGAGACTACCACCACCATGGCCACTACCACCACGCGCCGGGGCCGCTCCCC
 CACACTGAGGGACAGCACCACCCAGAACACAGATGACCTGCTGGTGGCCTCTGCTGAGTG
 TCCAAGCGATGATGAGGACCTGGAGGAGTGTGAGCCCAGTACTGGAGGAGAGTTAATATT
 GCCCATATCACGGAGGACTCCTTAGACCCCCCTCCCGTGGCCACCCGATCCCCCTTCGT
 GCCCCCGCCCCCTACCTTCTACCCCTTCTCACGGGAGTGGGGCCACCCAAGACACGCT
 GCCCCCGCCCGCGCGCCGCGCCCTCTGGGGGCCCGTCCAGGCCGAGCGGGACGA
 CAGCGACTGCGAGGAGCCATCGAGGCCTCGGGCTTCGCCTCCGGGGAGGTCTTTGACTC
 CAGCCTCCCCCACGGACGACGAGGACTTTTACACCACCTTTCCCTGGTGCAGGACCG
 CACCACCCTCCTGTACCCCGCAAACCCGCTCCCCGGCCCAACCTCAGGACAGATGGGGC
 CACGGGCGCCCTGGGGTGTGTTGCCCCCTCCGCCCGGCCCAACCTGCCGGCGGG
 CAAAATGAACCACCGAGACCCGCTTACGCCCTTGTGGAGAACCAGCCCTTGGGGCCGG
 GGCCCCACGTCCTTTGAGCCGCGGAGGCCCTCCCTGCGCCCCGGCGTGACCTCAGC
 CCCCAGCTTCCCCATCTGCCACAGCCAACCCACAGGGCTGGGGAGCGGGGCCCGCC
 GGGCGCAGTGGAGGTGATCCGGGAGTCCAGCAGCACACGGGCATGGTGGTGGGATTGT
 GCGGGCGCGGCGCTCTGCATCCTCATCCTCCTACGCCATGTATAAGTACCGCAATCG
 TGATGAGGGCTCCTACAGGTGGACCAGAGCCGAACTACATCAGTAACTCGGCCAGAG
 CAATGGGGCGGTGGTAAAGAGAAGGCCCGGCTGCCCAAGACGCCAGCAAGGCCAA
 GAAGAACAAGACAAGGAGTATTATGTCTGAGCCCCCGGCACTGCGCCCCACTGCCAGCT
 GCCCTCCTGGGAGGGCCCGGAGGAGGTGCCACCCTCTCCCTGCCAGGGGCTGGGGA
 CCCTCTCCCTGGTGCCTCAGGCTTCTTACGAAGAGGAAACGCAAAAAA

Restriction Sites: Please inquire

ACCN: NM_138734

Insert Size: 2300 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).

OTI Annotation: It is not a variant.

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_138734.1](#), [NP_620063.1](#)

RefSeq Size: 3550 bp

RefSeq ORF: 2001 bp

Locus ID: 9379

UniProt ID: [P58401](#)

Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary: This gene encodes a member of the neurexin gene family. The products of these genes function as cell adhesion molecules and receptors in the vertebrate nervous system. These genes utilize two promoters. The majority of transcripts are produced from the upstream promoter and encode alpha-neurexin isoforms while a smaller number of transcripts are produced from the downstream promoter and encode beta-neuresin isoforms. The alpha-neurexins contain epidermal growth factor-like (EGF-like) sequences and laminin G domains, and have been shown to interact with neurexophilins. The beta-neurexins lack EGF-like sequences and contain fewer laminin G domains than alpha-neurexins. Alternative splicing and the use of alternative promoters may generate thousands of transcript variants (PMID: 12036300, PMID: 11944992).[provided by RefSeq, Jun 2010]

Transcript Variant: This variant (beta) lacks most 5' exons and has an alternate exon at the 5' end, as compared to variant alpha-1. It encodes isoform beta which has a much shorter and different N-terminus than isoform alpha-1 (PMID: 12036300 and PMID: 11944992). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.