

## Product datasheet for SC306070

### Neurexin II alpha (NRXN2) (NM\_138732) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurexin II alpha (NRXN2) (NM_138732) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRXN2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138732, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCCGGGAGCCGGTGGCGCCGACACCGCCCGCTGCTGTTGCTGCTGCTGCTG
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CGCGCCGACCGCGCTGGCGGTGGCGGAGGCGCCGCGCCGAGGTGCGCTCCAAG
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 GACCAGAGCCGAACTACATCAGTAACCTCGGCCAGAGCAATGGGGCGGTGGTGAAGAG  
 AAGGCCCGGCTGCCCAAGACGCCAGCAAGGCCAAGAAGAACAAGACAAGGAGTAT  
 TATGTCTGA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_138732
<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	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.
<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_138732.1, NP_620060.1</u>
<b>RefSeq Size:</b>	6390 bp
<b>RefSeq ORF:</b>	4929 bp
<b>Locus ID:</b>	9379
<b>UniProt ID:</b>	<u>Q9P2S2</u>
<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	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 (alpha-2) lacks 3 exons and a portion from a fourth exon in the coding region, as compared to variant alpha-2. It encodes isoform alpha-2 which is missing 4 internal aa fragments but has identical N- and C-termini to isoform alpha-1. 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.