

Product datasheet for **SC120579**

Neurexin 1 (NRXN1) (NM_138735) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurexin 1 (NRXN1) (NM_138735) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurexin 1
Synonyms:	Hs.22998; PTHSL2; SCZD17
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_138735 edited
 GCTGTTTTGGAGACTGCAGATTTGCATAGAGCCCCTTGCTTACCAGCGTGTGTGGTTTTT
 CTTTTCTTTTTCTTTTTCTTTTTCTTTTTCTGTTTCTCTCCCTTACTCCTTCGCTCG
 ATCTTCTTCTCAGCTGCCTTTCCGCCGTTGCATTCCCCTTCTTCCAGAGGGCGCACTC
 TTCCCTCTGAACCCCTCGCCGGCGTAAGTGTCCAGGAGCGCGGACGCGGAGATTGCCT
 GGGGAGCAGGCGATGCGCGCCGCTGCTCCGCGCGCTGCCCGGGGAGGCTGGCGCTAGCG
 GCGGAGCCGGCCGGGCTGAATGGAGGGAAGGGCGCCTGGATTCCATGGGGTCTGCTTC
 TGCTTTGAAAGGAGTTGGGCCGCGAAGTGGCCTCCCTAGTCCCGCACACAAAGCTAA
 ATGGATTTACCTAGTGGATTGCGCGTGGATGTCTGTATGTAGAAGTGAGGACCTCCAG
 GAGGAGCTTTAAACAATTTCTCGGCCCCACCAGCGGCGCAGCACTCTCGCCGAAACT
 CTTTGGGAGTATCTCTCGAGAACCTGGAGCCCTGGAAATCTGGGAGCAGCCACCCGCTCC
 GCGCTTGTGTTCCCGGGCTGCCTTTCCGACAAGCCCTCTCCAGCTGCATTGCGCTC
 GGCTATGTTTCGATTGTTTGGGGTGTAGGCACGGCGGACTCCAGGACCCCGAGAAGAC
 TGTCGGAAGGAGGAGAGGATGGGTGCCCTGGCGCGGTGAGGCGCGCCGCCCTCAGCCC
 ACTCCGCGCCCGCTCCCTGCGCCCTCTCTCTCCCGCGCCCAAACCTTTGCTCC
 CCGCGCGCTGCCCTCGCGGGCGCCCGCCATGTACCAGAGGATGCTCCGGTGCGGCG
 CCGAGCTGGGCTCGCCCGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 GCCTGGCCCTGCTTTGGATAGTCCCGCTCACCTCAGCGGCTCCTAGGAGTGGCGTGGG
 GGGCATCCAGTTTGGGAGCGCACCATCCACCTTTCCATGGCAGCAGCAAGCATCATT
 CAGTGCCTATTGCAATCTACAGTCCACCGCATCCTTGCAGGCGGACACGCTGGGACGA
 CATATATCTTTAGCAAAGGTGGTGGACAAATCAGTATAAGTGGCCTCCTAATGACCGAC
 CCAGTACACGAGCAGACAGACTGGCCATAGGTTTTAGCACTGTTCCAGAAAGAAGCCGAT
 TGGTGCAGTGGACAGTTCTTCAGGCTTGGGTGACTACCTAGAAGTGCATATACACAGG
 GAAAAATTGGAGTTAAGTTAATGTTGGGACAGATGACATCGCCATTGAAGAATCCAATG
 CAATCATTAATGATGGGAAATACCATGTAGTTCGTTTACGAGGAGTGGTGGCAATGCCA
 CGTTGCAGGTGGACAGCTGGCCAGTGATCGAGCGCTACCCTGCAGGGCGTCAGCTCACAA
 TCTTCAATAGCCAAGCAACCATAATAATTGGCGGAAAGAGCAGGGCCAGCCCTTCCAGG
 GCCAGCTCTCTGGGCTGTACTACAATGGCTTAAAAGTTCTGAATATGGCAGCCGAAAACG
 ATGCCAACATCGCCATAGTGGGAAATGTGAGACTGGTTGGTGAAGTGCCTTCTCTATGA
 CAACTGAGTCAACAGCCACTGCCATGCAATCAGAGATGTCCACATCAATTATGGAGACTA
 CCAGACCTGGTACTAGCACAGCCAGAAGAGGAAAGCCCGACAAAAGAACCATTA
 GCCAGACCACAGATGACATCCTTGTGGCCTCAGCAGAGTGTCCAGCGATGATGAGGACA
 TTGACCCCTGTGAGCCGAGCTCAGGTGGGTTAGCCAACCAACCCGAGCAGGCGGAGAG
 AGCCGATCCAGGCTCAGCAGAAGTGTCCGGGAGTCCAGCAGCACCACGGGTATGGTGG
 TTGGGATAGTAGCCGCTGCCGCCCTGTGCATCCTTATCCTCCTATGCCATGTACAAGT
 ACAGAAACCGGGATGAAGGCTCATACCATGTGGACGAGAGTCAAACCTACATCAGTAACT
 CAGCACAGTCCAATGGGGCTGTTGTAAGGAGAAAACAACCCAGCAGTGCGAAAAGCTCCA
 ACAAAAAAAGAAAAACAAGGATAAAGAGTATTATGTCTGATCCCAAGATCTTAAATGGA
 CACTTGTATAGAAATAGTCTTCTTTTATCTGAGACATAATATAAACTTATTTACTTTCC
 TTTTATGAAGCACATACAAAAGAAGACAGGGAATGCAATCAGGAAGGAAAGACTTTTAA
 AAAAAAACAAGTATCTCATGCTCTTGTCTCAAAAAAAAAAAAAAAAAA

Restriction Sites: NotI-NotI
ACCN: NM_138735
Insert Size: 2400 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:	The insert of this clone has been fully sequenced and found to be perfect match to NM_138735.1.
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:	NM_138735.1 , NP_620072.1
RefSeq Size:	3712 bp
RefSeq ORF:	1329 bp
Locus ID:	9378
UniProt ID:	P58400
Cytogenetics:	2p16.3
Domains:	LamG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	<p>This gene encodes a single-pass type I membrane protein that belongs to the neurexin family. Neurexins are cell-surface receptors that bind neuroligins to form Ca(2+)-dependent neurexin/neuroligin complexes at synapses in the central nervous system. This complex is required for efficient neurotransmission and is involved in the formation of synaptic contacts. Three members of this gene family have been studied in detail and are estimated to generate over 3,000 variants through the use of two alternative promoters (alpha and beta) and extensive alternative splicing in each family member. Recently, a third promoter (gamma) was identified for this gene in the 3' region. Mutations in this gene are associated with Pitt-Hopkins-like syndrome-2 and may contribute to susceptibility to schizophrenia. [provided by RefSeq, Aug 2016]</p> <p>Transcript Variant: This variant (beta1) results from the use of an alternate promoter, referred to as beta. It contains an alternate 5' terminal exon and lacks most of the 5' exons and another exon in the 3' region compared to variant alpha2. The resulting isoform (beta1) is shorter with a distinct N-terminus lacking the EGF-like domain and containing fewer laminin G domains compared to isoform alpha2. 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.</p>