

Product datasheet for **SC118376**

Nectin 2 (NECTIN2) (NM_002856) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nectin 2 (NECTIN2) (NM_002856) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nectin 2
Synonyms:	CD112; HVEB; PRR2; PVRL2; PVRR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_002856 edited
GAATTCGGCACGAGGGCCGGGGTGCAGCCGGGCGGGGAGAGCTGGGCCGGGAGAGCA
GAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCCGAGCCCCACAGG
CACCTACTAAACCGCCAGCCGATCGGCCCCACAGAGTGGCCCGGGCCCTCCGGCCGG
GCCAGTCCCCTCCGGGCCCTCCATGGCCCGGGCCGCTGCCCTCCTGCCGTCGATCG
CCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTCCTGGAAACCGGAGCCAG
GATGTGGAGTTCAAGTGTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCGTGGAGCTG
CCGTGCCACCTGCTGCCACCTGTTCCCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGC
CCAGATGCACCTGCGAACACCAGAATGTGGCCGCTTCCACCCTAAGATGGGTCCCAGC
TTCCCCAGCCGAAGCCTGGCAGCGAGCGGCTGTCCTTCGTCTCTGCCAAGCAGAGCACT
GGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGGCCCTCCACGGGCTCACGGTG
GAGGACGAGGGCAACTACACTTGCAGTTCGACCTTCCCAAGGGGTCCGTCCGAGGG
ATGACCTGGCTCAGAGTCATAGCCAAGCCCAAGAACCAAGCTGAGGCCCAGAAGTCCAG
TTCAGCCAGGACCCTACGACAGTGGCCCTCTGCATCTCCAAGAGGGCCGCCACCTGCC
CGGATCTCCTGGCTCTCATCCCTGGACTGGGAAGCCAAAGAGACTCAGGTGTCAGGGACC
CTGGCCGGAAGTGTCACTGTACCAGCCGCTTACCTTGGTGCCCTCGGGCCGAGCAGAT
GGTGTACCGTCACTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCCAGCCCTGATACCT
GTGACCCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGG
TACCTCGGCCGTACTGATGCCACCCTGAGCTGTGACGTCGCGCAGCAACCCAGAGCCACG
GGCTATGACTGGAGCACGACCTCAGGCACCTTCCCGACCTCCGCAGTGGCCAGGGCTCC
CAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCACCTTCGTCTGCACAGTCCAC
AATGCCGTGGGCATGGGCCCGCTGAGCAGTTCATCTTTGTCCGAGAAACCCAGGGCC
TCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGACACTGCTGGTGCTG
CTGCTTCTGGCTGGGGGTCCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAG
AGCCCTGGAGGAGCAGGAGGAGGAGCCAGTGGCGACGGGGATTCTACGATCCGAAAGCT
CAGGTGTTGGGAAATGGGACCCCGTCTTCTGGACACCAGTAGTCCCTGGTCCCATGGAA
CCAGATGGCAAGGATGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGCCCTCATG
TTGCCTCCACCCCGACTCGAGGATGACATGGAGTCCAGCTGGACGGCTCCCTCATC
TCACGGCGGGCAGTTTATGTGTGACCTGGACACAGACAGAGACAGAGCCAGGCCCGGCC
TCCCGCCCCGACTGACCACGCCGCCCTAGGGTTCAGACTGGTTGGACTTGTTCGTCT
GGACGACTGGAGTGGAACTGCCTCCCACTTCTTGGGACTTGGAGGAGGTGGAAC
AGCACACTGGACTTCTCCGCTCTAGGGCTGCATGGGGAGCCCGGGGAGCTGAGTAGTG
GGGATCCAGAGAGGACCCCGCCCCAGAGACTTGGTTTTGGCTCCAGCCTTCCCCTGGC
CCCGTGACACTCAGGAGTTAATAAATGCCTTGGAGGAAAAAAAAAAAAAAAAAAAAAAAA
CTCGAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002856 unedited
 TTCACCATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCCGGGGGTG
 CCGAGCCGGGCGGGNGAGACTGGGCCGGGAGAGCAGAACAGGAGGCTAGAGCGCAGCGGG
 AACCGGCCCGGAGCCGGAGCCGGAGCCCCACAGGCACCTACTAAACCGCCAGCCGATCG
 GCCCCACAGAGTGGCCCGGGCCCTCCGGCCGGGCCAGTCCCCTCCCGGGCCCTCCAT
 GGCCCGGGCCGCTGCCCTCCTGCCGTGAGATCGCCGCCGACCCGCTGCTGTGGCCGCT
 GCTGCTGCTGCTCCTGGAAACCGGAGCCAGGATGTGCGAGTTCAAGTGTACCCGA
 GGTGCGAGGCCAGCTCGGGGGCACCGTGGAGCTGCCGTGCCACCTGCTGCCACCTGTTCC
 TGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCAGATGCACCTGCGAACACCAGAA
 TGTGGCCGCTTCCACCCTAAGATGGGTCCCAGCTTCCCAGCCGAAGCCTGGCAGCGA
 GCGGCTGTCTTCTGCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCA
 GGACGCCACGCTGGCCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGA
 GTTTGCCACCTTCCCAAGGGTCCGTCCGAGGGATGACCTGNCTCAGAGTCATAGCCAAG
 CCCAGAACCAAGCTGAGGCCAGAAAGTACGTTACGCCAGGACCCTACGACAGTGGCC
 TCTGCATCTCCAAGAAGCCGGCCACCTGCCCGAACTCCTGCCTCTCATCCCTGGACTGG
 GAACCAAAGAGACTCCAGTGTGACGGGACCCTGGCCCGAACTGACTGTCACCAGCCGCTT
 CACCTTGTGCCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002856 unedited
 CGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTCTCCAGGCATT
 TATTAACCTCTGAGTGTACGGGGCCAGGGGAAGGCTGGAGCCAAAACCAAGTCTCTGGG
 GCGGGGGTCTCTCTGGATCCCCTACTCAGCTCCCCGGGCTCCCATGCAGCCCTAG
 AGACGGGAGAAGTCCAGGGGGCTTTCCACCTACCTCCAAGTCCAAGAAAGGGGAGGC
 AGTGCCCACTCCAGGGCCGCTCAGACGAACAAGTCCAACCAAGTCTGGACCCCTAGGCCG
 ACGTGGACAGGCCGGGGCGGAAGGAACGGTCACTGCTCTGAATCTGACTGCGCCACAC
 CACACATTAACCGAACCCCTTGAGACATGAGGGAATCAAACCCCTGGCAACCACTGCCACA
 ACACAACGCTGGGGGAGGCGGCTACATCGGCTATTTTTTGTCACTCTCTCTCCCCGA
 CCTCCCCTATCTTGCTCTTTGCTCACCGAATCTCCGCCCTCTGCCCCCTTTATTAGGGT
 TCTTTTTCACTCTCTCACCCCTTCCCCTCCTCAACTCCCTCTCTCCCTGCCCCCTC
 CCGTACCTCCGGCTGTTTCTCATTCCCCCTTTCCCCTGTGAGGGCACTCTCCGCTTT
 CCGCCCCGCAATTATTCTTTCTTCCCCTCTTCTGTCGTCGATCTTTATTTTCTTCTTTAA
 TCCTTCAGTCCCTCTGGACTTCTCCCTCACACGCTTGCACTTTTACATATGTATCTCCA
 CAATGTCCCTCCCTCCTCAACGCCCCACCTCAATCTCCCTCATCCTGCGTACCTATCCC
 CCCCCCGCCCTCGCTGTTGCTTCTCGTCTACCAGTCTCCATTACTTTTCCACTCTTA
 CCCTGACTCTCATTTCCCCCACATTG

Restriction Sites:

NotI-NotI

ACCN:

NM_002856

Insert Size:

1910 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_002856.1](#), [NP_002847.1](#)

RefSeq Size: 1928 bp

RefSeq ORF: 1440 bp

Locus ID: 5819

UniProt ID: [Q92692](#)

Cytogenetics: 19q13.32

Domains: ig, IGv, IG

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adherens junction, Cell adhesion molecules (CAMs)

Gene Summary:

This gene encodes a single-pass type I membrane glycoprotein with two Ig-like C2-type domains and an Ig-like V-type domain. This protein is one of the plasma membrane components of adherens junctions. It also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and it is involved in cell to cell spreading of these viruses. Variations in this gene have been associated with differences in the severity of multiple sclerosis. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (alpha) has multiple differences in the coding region, compared to variant delta, one of which results in an early stop codon. The resulting protein (isoform alpha) has a distinct C-terminus and is shorter than isoform delta.