

Product datasheet for **RC213626**

Neurexin II alpha (NRXN2) (NM_138734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurexin II alpha (NRXN2) (NM_138734) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neurexin II alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC213626 representing NM_138734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCCCCGGGGGAGCGGGCCGGGGGGTGCCCGCCGCCCCCGGCCCTGGCTGGGCCCTGCCGC
 CGCTCCACCGCCGCGCCGCACTCTGCTGCCGCTGTTGCCGCTGTTGCTGCTGTTGCTGCTGGGGC
 GGCCGAGGGGGCCGGTCTCCTCCAGCCTCAGCACCACCACCACGTCCACCACTTCCACAGCAAGCAC
 GGCACCGTGCCCATCGCCATCAACCGCATGCCCTTCTCACCCGCGGGCCACGCCGGGACCACATACA
 TCTTTGGGAAGGGGGAGCGCTCATCACTACAGTGGCCCCCAATGACAGGCCAGCAGGAGTGA
 TCGCTGGCCGTGGGCTTCAACCCACCAGCGGAGCGCTGTGCTGGTGGGGTGGACAGCGCTCCGGC
 CTTGGAGACTACCTGCAGCTGCACATCGACCAGGGCACCCTGGGGTGTCTTTAACGTGGGCACGGACG
 ACATTACCATCGACGAGCCCAACGCCATAGTAAGCGACGGCAAATACCACGTGGTGGCTTCACTCGAAG
 CGCGGCAACGCCACCCTGCAGTGGACAGCTGGCCGGTCAACGAGCGGTACCCGCGAGGAACTTTGAT
 AACGAGCGCTGGCGATTGCTAGACAGAGAATCCCTACCGGCTTGGTCCGAGTAGATGAGTGGCTGC
 TCGACAAAGGCCCCAGCTGACCATCTTCAACAGCCAGGCTGCCATCAAGATCGGGGGCCGGGATCAGGG
 CCGCCCTTCCAGGGCCAGGTGTCCGGCCTCTACTACAATGGGCTCAAGGTGCTGGCGCTGGCCGCCGAG
 AGCGACCCCAATGTGCGGACTGAGGGTCACTGCGCCTGGTGGGGAGGGGCCGTCCGTGCTGCTCAGTG
 CGGAGACCACGGCCACCACCCTGCTGGTGACATGGCCACCACCATATGGAGACTACCACCACCATGGC
 CACTACCACCACGCGCCGGGGCCCTCCCCACACTGAGGGACAGCACCACCAGAACACAGATGACCTG
 CTGGTGGCCTCTGCTGAGTGTCCAAGCGATGATGAGGACCTGGAGGAGTGTGAGCCAGTACTGGAGGAG
 AGTTAATATTGCCATTATCACGGAGGACTCCTTAGACCCCTCCCGTGGCCACCAGTCCCCCTTCGT
 GCCCCCGCCCCCTACCTTCTACCCCTTCTCACGGGAGTGGGCGCCACCAAGACACGCTGCCCCCGCCC
 GCGCGCGCCGCCCTCTGGGGCCCGTCCAGGCGGAGCGGGACGACAGCGACTGCGAGGAGCCCA
 TCGAGGCTCGGGCTTCGCTCCGGGGAGTCTTTGACTCCAGCCTCCCCCACGGACGACGAGGACTT
 TTACACCACCTTCCCTGGTACGGACCGCACCACCCTCCTGTACCCCGCAAACCCGCTCCCCGGCCC
 AACCTCAGGACAGATGGGGCCACGGGCGCCCTGGGGTGTGTTGCCCTCCGCCCGGGCCCCAACCC
 TGCCGGCGGGAAAAATGAACCACCGAGACCCGCTCAGCCCTGCTGGAGAACCCGCCCTGGGGCCCGG
 GGCCCCACGTCCTTTGAGCCGCGGAGGCCCTCCCCGCGCCCGGCGTGACCTCAGCCCCGGCTTC
 CCCATCTGCCACAGCCAACCCACAGGGCCTGGGGAGCGGGCCCGCCGGGCGCAGTGGAGGTGATCC
 GGGAGTCCAGCAGCACCAGGGCATGGTGGTGGCATTGTGGCGCGGGCGCTCTGCATCCTCATCCT
 CCTCTACGCCATGTATAAGTACCGAATCGTGATGAGGGCTCCTACCAGGTGGACCAGAGCCGAACTAC
 ATCAGTAACTCGGCCAGAGCAATGGGGCGGTGGTGAAGAGAAGGCCCGGCTGCCCCCAAGACGCCCA
 GCAAGGCCAAGAAGAACAAGACAAGGAGTATTATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213626 representing NM_138734
Red=Cloning site Green=Tags(s)

MPPGGSGPGGCPRRPPALAGPLPPPPPPPPPLPLPLLLLLLLGAAEGARVSSSLSTHHVHHFHSKH
 GTVPIAINRMPFLTRGGHAGTTYIFGKGGALITYWPPNDRPSTRMDRLAVGFSTHQSAVLVRVDSASG
 LGDYQLQHIDQGTGVIFNVGTDDITIDEPNAIVSDGKYHVVRFRSNGNATLQVDSWPVNERYPAGNFD
 NERLAIARQRIPIYRLGRVDEWLLDKGRQLTIFNSQAAIKIGGRDQGRPFQGVSLYNGLKVLALAAE
 SDPNVRTEGHLRLVGEGPSVLLSAETTATLLADMATTIMTTTTTMTTTRRGRSPTLRDSTTQNTDDL
 LVASAECPSSDEDELEECEPSTGGELILPIITEDSLDPPPVATRSPFVPPPTFYFPLTGVGATQDTLPPP
 AARRPPSGGQCQAEERDSDCEEPASGFASGEVFDSSLPTDDEDFYTTFPLVTDRTLLSPRKAPRP
 NLRDGTGAGVLFAPSAPAPNLPAKMNHRDPLQPLENPLPGGAPTSFEP RPPPLRPGVTSAPGF
 PHLPTANPTGPGERGGAVEVIRESSSTTGMVVGIVAAAALCILLLYAMYKYRNRDEGSYQVDQSRNY
 ISNSAQSNGAVVKEKAPAAPKTPSKAKKNKDEKEYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_138734

ORF Size: 1998 bp

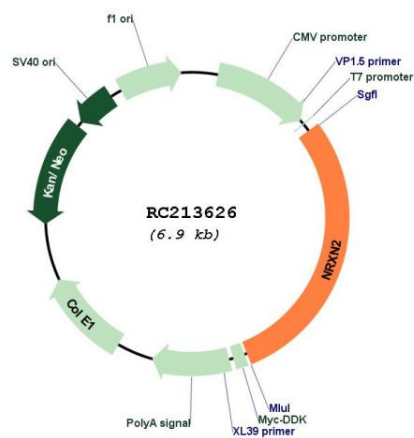
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_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)
MW:	66.1 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC213626