

Product datasheet for **RG213626**

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:	TurboGFP
Symbol:	Neurexin II alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG213626 representing NM_138734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCCCCGGGGGAGCGGGCCGGGGGGTGCCCGCCGCCCCCGGCCCTGGCTGGGCCCTGCCGC
 CGCTCCACCGCCGCGCCGACCTCTGCTGCCGCTGTTGCCGCTGTTGCTGCTGTTGCTGCTGGGGC
 GGCCGAGGGGGCCGGTCTCCTCCAGCCTCAGCACCACCACCACGTCCACCATTCCACAGCAAGCAC
 GGCACCGTGCCCATCGCCATCAACCGCATGCCCTTCTCACCCGCGGGCCACGCCGGGACCACATACA
 TCTTTGGGAAGGGGGAGCGCTCATCACCTACAGTGGCCCCCAATGACAGGCCAGCAGGAGATGGA
 TCGCTGGCCGTGGGCTTCAACCCACCAGCGGAGCGCTGTGCTGGTGGGGTGGACAGCGCTCCGGC
 CTTGGAGACTACCTGCAGCTGCACATCGACCAGGGCACCCTGGGGTGTCTTTAACGTGGGCACGGACG
 ACATTACCATCGACGAGCCCAACGCCATAGTAAGCGACGGCAAAACCACGTGGTGGCTTCACTCGAAG
 CGCGGCAACGCCACCCTGCAGTGGACAGCTGGCCGGTCAACGAGCGGTACCCGCGAGGAACTTTGAT
 AACGAGCGCTGGCGATTGCTAGACAGAGAATCCCTACCGGCTTGGTCCGAGTAGATGAGTGGCTGC
 TCGACAAAGGCCCCAGCTGACCATCTTCAACAGCCAGGCTGCCATCAAGATCGGGGGCCGGATCAGGG
 CCGCCCTTCCAGGGCCAGGTGTCCGGCCTTACTACAATGGGCTCAAGGTGCTGGCGCTGGCCGCCGAG
 AGCGACCCCAATGTGCGGACTGAGGGTCACTGCGCCTGGTGGGGAGGGGCCGTCCGTGCTGCTCAGTG
 CGGAGACCACGGCCACCACCCTGCTGGTGACATGGCCACCACCATATGGAGACTACCACCACCATGGC
 CACTACCACCACGCGCGGGGCCCTCCCCACACTGAGGGACAGCACCACCAGAACACAGATGACCTG
 CTGGTGGCCTCTGCTGAGTGTCCAAGCGATGATGAGGACCTGGAGGAGTGTGAGCCAGTACTGGAGGAG
 AGTTAATATTGCCATTATCACGGAGACTCCTTAGACCCCTCCCGTGGCCACCCGATCCCCCTTCGT
 GCCCCCGCCCCCTACCTTCTACCCCTTCTCACGGGAGTGGGCGCCACCAAGACACGCTGCCCCCGCCC
 GCGCGCGCCGCCCTCTGGGGCCCGTCCAGGCCGAGCGGGACGACAGCGACTGCGAGGAGCCCA
 TCGAGGCTCGGGCTTCGCTCCGGGGAGGTCTTTGACTCCAGCCTCCCCCACGGACGAGGAGACTT
 TTACACCACCTTCCCTGGTACGGACCGCACCACCCTCCTGTACCCCGCAAACCCGCTCCCCGGCCC
 AACCTCAGGACAGATGGGGCCACGGGCGCCCTGGGGTGTGTTGCCCTCCGCCCGGGCCCCAACCC
 TGCCGGCGGGAAAAATGAACCACCGAGACCCGCTTCAAGCCTTGTGGAGAACCCGCCCTGGGGCCCGG
 GGCCCCACGTCCTTTGAGCCGCGGAGGCCCTCCCCGCGCCCGGCGTGACCTCAGCCCCGGCTTC
 CCCCATCTGCCACAGCCAACCCACAGGGCCTGGGGAGCGGGCCCGCCGGGCGCAGTGGAGGTGATCC
 GGGAGTCCAGCAGCACCAGGGCATGGTGGTGGCATTGTGGCGCGGGCGCTCTGCATCCTCATCCT
 CCTCTACGCCATGTATAAGTACCGAATCGTGATGAGGGCTCCTACCAGGTGGACCAGAGCCGAACTAC
 ATCAGTAACTCGGCCAGAGCAATGGGGCGGTGGTGAAGAGAAGGCCCGGCTGCCCAAGACGCCCA
 GCAAGGCCAAGAAGAACAAGACAAGGAGTATTATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213626 representing NM_138734
 Red=Cloning site Green=Tags(s)

MPPGGSGPGGCPRRPPALAGPLPPPPPPPPPLPLPLLLLLLLGAAEGARVSSSLSTHHVHHFHSKH
 GTVPIA INRMPFLTRGGHAGTTYIFGKGGALITYTWPNDPSTRMDRLAVGFSTHQSAVLVRVDSASG
 LGDYQLQHIDQGTGVIFNVGTDDITIDEPNAI VSDGKYHVVRFRSGGNATLQVDSWPVNERYPAGNFD
 NERLAIARQRIPIYRLGRVVDEWLLDKGRQLTIFNSQAAIKIGGRDQGRPFQGVVSLYNGLKVLALAAE
 SDPNVRTEGHLRLVGEGPSVLLSAETTATLLADMATTIMTTTTTMTATTTTRRGRSPTLRDSTTQNTDDL
 LVASAECPSSDDELEECEPSTGGELILPIITEDSLDPPPVATRSPFVPPPTFYFPFLTGVGATQDTLPPP
 AARRPPSGGQCQAEERDSDCEEP IEASGFASGEVFDSSLPPTDDEDFYTTFPLVTDRTLLSPRKAPRP
 NLRDGTGAPGVL FAPSAPAPNL PAGKMNHRDPLQPLENPLPGGAPTSFEPRRPPPLRPGVTSAPGF
 PHLPTANPTGPGERGGP GAVEVIRESSSTTGMVVGIVAAAALCILLLYAMYKYRNRDEGSYQVDQSRNY
 ISNSAQSN GAVVKEKAPAAPKTPSKAKKNKDKEYVYV

TRTRPLE - GFP Tag - V

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:

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](#)

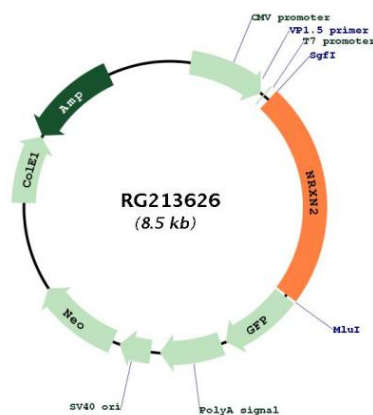
Cytogenetics: 11q13.1

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]

Product images:



Circular map for RG213626

