

Product datasheet for **RG222365**

Neurexin II alpha (NRXN2) (NM_138732) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurexin II alpha (NRXN2) (NM_138732) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRXN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222365 representing NM_138732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

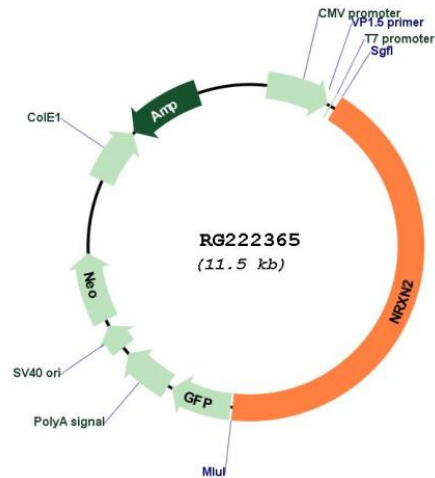
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TGATACAGGCAAGTCCGCGGACTACGTC AACCTGTCCCTCAAGTCTGGGGCTGTCTGGCTGGTCATCAA
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CGACCCGAGCCAAATGGGCTGCTTTCAGCCAGGCGCGGGCTGGGGTGGAGCTGGCAGCC
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CATGGGATCTGGGGGCATCAAGCTGCGGGCATCCAGCCGCAAGGTCAATGATGGCGAGTGGTGTACCGTG
 GACTTCCAGAGGGATGGGCGAAAAGGCTCCATCTCAGTGAATAGTCGCAGCACGCCGTTCTTGGCCACTG
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 GCACCACGGCATGGTGGTGGGCATTGTGGCGGCGGGCGCTCTGCATCCTCATCTCTCTACGCCAT
 GTATAAGTACCGCAATCGTGATGAGGGCTCTACCAGGTGGACCAGAGCCGAAACTACATCAGTAACTCG
 GCCCAGAGCAATGGGGCGGTGGTGAAGAGAAGGCCCGGCTGCCCCAAAGACGCCACGCAAGGCCAAGA
 AGAACAAAGACAAGGAGTATTATGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Plasmid Map:


ACCN: NM_138732

ORF Size: 4926 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_138732.3](#)

RefSeq Size: 6413 bp

RefSeq ORF: 4929 bp

Locus ID: 9379

UniProt ID: [Q9P2S2](#)

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]