

Product datasheet for **SC317095**

NRXN3 (NM_001105250) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRXN3 (NM_001105250) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRXN3
Synonyms:	C14orf60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC317095 representing NM_001105250.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCACCTGAGAATCCACGCGAGACGGAGCCCTCCTCGCCGGCCGGCCTGGACGCTTGGGATCTGGTTC
CTGTTCTGGGGATGTATCGTCAGCTCTGTATGGAGTTCTTCTAATGTAGCTTCTCCTCCTCCACCTCT
TCCTCGCCGGGGTCTCACTCTCAGCACGAGCACCATTTCCATGGCAGCAAGCATCACTCAGTGCCTATT
TCTATCTATCGTTCCCCTGTTTCCCTTCGAGGAGGACACGCTGGCGCTACGTACATCTTTGGAAAAAGT
GGTGGGCTTATCCTCTACACCTGGCCAGCCAATGACAGGCCAGCACGGGTCTGACCGCCTTGCCGTG
GGCTTCAGCACCCTGTGAAGGATGGCATCTTGGTCCGCATCGACAGTGTCCAGGACTTGGTGACTTC
CTCCAGCTTCACATAGAACAGGGGAAAATTGGAGTTGTCTTCAACATTGGCACAGTTGACATCTCCATC
AAAGAGGAGAGAACCCTGTAATGACGGCAAATACCATGTGGTACGCTTACCAGGAACGGCGGCAAC
GCCACCCTGCAGGTGGACAACCTGGCCAGTGAATGAACATTATCCTACAGGCAACACTGATAATGAACGC
TTCCAAATGGTAAAACAGAAAATCCCCTCAAATAATAATCGGCCGTAGAGGAGTGGCTGCAGGAAAAA
GGCCGGCAGTTAACCATCTTCAACACTCAGGCGCAAATAGCCATTGGTGGAAAGGACAAAGGACGCCCTC
TTCCAAGGCCAACTCTCTGGGCTCTATTATGATGGTTTGAAGTACTGAACATGGCGGCTGAGAACAAC
CCCAATATTAATAAATCAATGGAAGTGTTCGGCTGGTTGGAGAAGTCCCATCAATTTTGGGAACAACACAG
ACGACCTCCATGCCACCAGAAAATGTCTACTACTGTATGGAAACCACTACTACAATGGCGACTACCACA
ACCCGTAAGAATCGCTCTACAGCCAGCATTAGCCAACATCAGATGATCTTGTTCATCTGCTGAATGT
TCAAGTGATGATGAAGACTTTGTTGAATGTGAGCCGAGTACAGCAAACCCACGGAGCCGGGAATCAGA
CGGTTCCGGGGCCCTCAGAGGTGATCCGGGAGTCGAGCAGCACAAACAGGGATGGTCGTCCGCATTGTG
GCTGTGCCGCCCTCTGCATCTTGATCCTCCTGTACGCCATGTACAAGTACAGGAACAGGGACGAGGGG
TCCTATCAAGTGGACGAGACGCGGAACATACATCAGCAACTCCGCCAGAGCAACGGCACGCTCATGAAG
GAGAAGCAGCAGAGCTCGAAGAGCGGCCACAAGAAACAGAAAAACAAGGACAGGGAGTATTACGTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

Plasmid Map: □

ACCN: NM_001105250

Insert Size: 1380 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001105250.2](#)

RefSeq Size: 8659 bp

RefSeq ORF: 1380 bp

Locus ID: 9369

UniProt ID: [Q9HDB5](#)

Cytogenetics: 14q24.3-q31.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

MW: 50.7 kDa

Gene Summary: This gene encodes a member of a family of proteins that function in the nervous system as receptors and cell adhesion molecules. Extensive alternative splicing and the use of alternative promoters results in multiple transcript variants and protein isoforms for this gene, but the full-length nature of many of these variants has not been determined. Transcripts that initiate from an upstream promoter encode alpha isoforms, which contain epidermal growth factor-like (EGF-like) sequences and laminin G domains. Transcripts initiating from the downstream promoter encode beta isoforms, which lack EGF-like sequences. Genetic variation at this locus has been associated with a range of behavioral phenotypes, including alcohol dependence and autism spectrum disorder. [provided by RefSeq, Dec 2012]

Transcript Variant: This variant (3) differs in the 5' UTR and contains multiple differences in the coding region, including the lack of multiple 5' exons, compared to variant 1. It initiates translation at an alternate start codon. The encoded isoform (3) is shorter and has a distinct N-terminus, compared to isoform 1. This variant encodes a beta isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.