

Product datasheet for **MC223549**

Nrxn3 (NM_172544) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrxn3 (NM_172544) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nrxn3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223549 representing NM_172544 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTCAGATGACTTCTTCTATGTTGGTGAAGCCCAAGTACCGCAGACTTGCCAGGTTACCTG
TGAGCAACAACCTCATGGGCTGCCTTAAGAGGTTGTTTATAAGAATAATGACATCCGTCTAGAGCTGTC
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GCCACACTGGATCCCATCAACTTTGAGACCCAGAGGCTTACATCAGCTTGCCCAAGTGAACACCAAAAC
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CAATAGCGGAGATGGCAATGATTTATTGCAGTTGAGCTGGTCAAGGGGTACATACACTATGTGTTTGTAT



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CTCGGCAATGGTCCCAATGTGATCAAAGGCAACAGTGACCGCCCCCTGAATGACAACCAAGTGGCACAACG
TGGTCATCACCAGGGACAGCAGTAACACCCACAGTCTGAAGGTGGACACCAAGGTAGTCACTCAGGTCAT
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CACCATGGCTACGACCACCACCCGAAAGAACCCTCTACAGCCAGCATTAGCCACGTCAGATGATCTT
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CGGAGCCAGGAATCAGACGGGTTCCGGGGGCTCAGAGGTGATCCGGGAGTCCAGCAGTACAACAGGGAT
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AACAGGGACGAGGGTCTATCAAGTGGACGAGACGAGGAACATACATCAGCAACTCGGCCAGAGCAACG
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GTATTATGTGTA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_172544
Insert Size:	3303 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).
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:	<u>NM_172544.3, NP_766132.2</u>
RefSeq Size:	6529 bp

RefSeq ORF: 3303 bp

Locus ID: 18191

UniProt ID: [Q6P9K9](#)

Cytogenetics: 12 42.94 cM

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 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. [provided by RefSeq, Dec 2012]
Transcript Variant: This variant (2) 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 a downstream in-frame start codon. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.