

Product datasheet for **RN208761**

Nrxn1 (NM_021767) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nrxn1 (NM_021767) Rat Untagged Clone
Tag: Tag Free
Symbol: Nrxn1
Synonyms: Nrxn1b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN208761 representing NM_021767
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGGGACGGCGCTGGTCCAGCATGGGGGCTGCTGTCTCCTCTGCCTGTCGCTGCTGCTGTTGGGCTGCT
 GGGCAGAGCTGGGCAGTGGGCTGGAGTCCCAGGCGCTGAGGGCCAGTGGACGCGCTTCCCAAGTGAA
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 GACGACGAGGGCTTCTGCGACTTCTCGAGCTCATCCTGACACGCGCGCGCCGCTTGACGCTCAGCTTCT
 CCATCTTCTGCGCCGAGCCCGCCACGCTGTTGGCCGACACGCCAGTCAACGACGGCGCCTGGCACAGCGT
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ATGGCCTCATCTTGTAGCCATGGCAAGCCAAGACATCAGAAGGATGCCAAGCACCCGAGATGATTAA
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 CACGGATGATATCCTTGTGGCTCGGCAGAGTGTCCCAGCGACGATGAGGACATTGACCCCTGTGAGCCG
 AGCTCAGGTGGTTAGCCAACCCACCCGAGTGGCGGGCCGCAACCATACCCAGGCTCGGCAGAGGTGA
 TCCGGGAGTCTAGCAGTACCACTGGCATGGTGGTGGGATTGTGCGCAGCAGCAGCTCTGTGCATCCTCAT
 CCTCCTCTATGCCATGTACAAGTACAGAAACCGGGATGAAGGCTCATATCACGTGGATGAGAGTCAAGAC
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 CCAACAAAAACAAGAAGAACAAGGATAAGGAGTATTATGCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
 ACCN: NM_021767
 Insert Size: 4524 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:	NM_021767.2 , NP_068535.2
RefSeq Size:	5609 bp
RefSeq ORF:	4524 bp
Locus ID:	60391
UniProt ID:	Q63372
Cytogenetics:	6q12
Gene Summary:	This gene encodes a single-pass type I membrane protein that belongs to the neurexin family. Neurexins are synaptic transmembrane receptors that bind endogenous ligands that include neuroligins, dystroglycan, and neurexophilins. Neurexin complexes are required for efficient neurotransmission and are involved in synaptogenesis. In vertebrates, alternate promoter usage results in multiple isoform classes, of which the alpha and beta classes are the best characterized. In humans, allelic variants in this gene are associated with Pitt-Hopkins-like syndrome-2, while deletions have been associated with autism and schizophrenia. Mouse knockouts display decreased spontaneous and evoked vesicle release resulting in impaired synaptic transmission. In addition, knockout mice show altered social approach, reduced social investigation, reduced locomotor activity, and in males, increased aggression. [provided by RefSeq, Nov 2016]