

## Product datasheet for MC224600

### Nrxn1 (NM\_177284) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nrxn1 (NM\_177284) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nrxn1  
**Synonyms:** 1700062G21Rik; 9330127H16Rik; A230068P09Rik; mKIAA0578  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224600 representing NM\_177284  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGGGACGGCGCTGGTCCAGCGCGGGGCTGCTGTCTCCTCTGCCTGTCGCTGCTGCTGCTGGGCTGCT  
 GGGCAGAGCTGGGCAGCGGGCTGGAGTCCCGGGCGCCGAGGGCCAGTGGACGCGCTTCCCAAGTGAA  
 CGCGTGTGCGAGAGCGAGATGAGCTTCCAGCTGAAGACGCGCAGTGCCGCGGCCCTCGTCTACTTC  
 GACGACGAGGGCTTCTGCGACTTCTCGAGCTCATCTGACGCGCGCGGCCCTGCAGCTCAGCTTCT  
 CCATCTTCTGCGCCGAGCCCGCCACGCTGTTGGCCGACACGCCGGTCAACGACGGCGCCTGGCACAGCGT  
 GCGCATCCGCCCGAGTCCGCAACACCACGCTCTACATCGACCGCGCCGAGGCCAAGTGGTGGAGGTC  
 AAGTCCAAGCGCAGGGACATGACGGTGTTCAGCGGGCTCTTCTGGGGCGCCTGCCACCCGAACTGCGCG  
 CCGCGGCCCTCAAGCTCACGCTGGCCTCGGTGCGCGAGCGGAGCCCTCAAGGGCTGGATCCGTGACGT  
 CCGGGTCAACTCGTCACAGGCCCTGCCGGTGGACGGCGCGAGGTCAAGCTGGACGACGAGCCTCCCAAC  
 AGCGGTGGCGGGAGCCCATGCGAGGCGGGGAAGAAGGCGAGGGCGCGTGTGCCTCAACGGGGCGTGT  
 GCTCCGTGGTGCAGCACCAGGCCGATGCGACTGCTCGAGGACCGGCTTCCGTGGCAAGGACTGCAGCCA  
 AGAAGACAACAATGTGAAGGTCTGGCACACCTGATGATGGGCGACCAAGGAAAAGAAGTATATTGCC  
 ACGTTCAAGGGATCTGAATACTTCTGCTACGACTTATCTCAAAACCCATTCAAAGCAGCAGTATGAAA  
 TAACTCTGTCTTTAAACTCTTCAAAGGAACGGACTGATGCTTACACAGGAAATCAGCTGATTATGT  
 CAATCTTGCAATGAAAAATGGAGCTGTCTCTGGTCATTAATTTGGGATCAGGGGCTTTGAAGCACTA  
 GTGGAGCTGTGAATGAAAAGTTAATGATAATGCCTGGCATGATGTGAAAGTACCAGGAATCTGCGTC  
 AGGTGACAATATCAGTGGATGGAATCTTACCACAACGGGCTACACGCAAGAAGATTACCCATGCTGGG  
 GTCTGATGACTTTTTCTATGTTGGAGGCAGCCAGCACAGCCGACCTTCCAGGGTACCAGTCACTAAC  
 AACTTTATGGGCTGTCTCAAAGAGGTTGTATATAAAAAAATATGATGTAAGGCTGGAATTATCGCGACTTG  
 CCAAGCAAGGAGATCCTAAGATGAAGATTACCGGTGTGGTGGCTTTAAGTGTGAAAATGTGGCAACCTT  
 AGACCCAATAACTTTTGAGACCCCGAATCTTTCAATTTCTTGCCTAAGTGAATGCAAAGAAAACAGGC  
 TCAATATCATTTGATTTCCGTACAACGGAGCCAATGGCCTCATCTGTTAGCCATGGCAAGCCAAGAC



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ATCAGAAGGATGCCAAGCACCCACAGATGATTAAGGTTGACTTTTTTGGCTATTGAGATGCTGGATGGCCA  
 CTTGTACCTCCTCTTAGACATGGGATCAGGTAATAAAAAATCAAAGCCCTGCAGAAGAAAGTCAATGAT  
 GGAGAATGGTATCACGTGGATTTCCAACGGGATGGACGGTACAGTACCATTTCTGTCAACACACTACGCA  
 CTCCCTACACAGCTCCCGGTGAGAGTGAGATCCTGGACCTAGATGATGAGTTGTACCTGGGTGGCTTGGC  
 AGAAAAAAGGCTGGCCTAGTCTCCCTACCGAGGTGTGGACTGCTCTGCTCAACTACGGCTACGTGGGC  
 TGCATCCGGGACCTATTTATTGATGGCCAGAGCAAAGACATCCGGCAGATGGCGGAAATTCAGAGCACTG  
 CTGGAGTGAAGCCATCCTGCTCAAAGAGACAGCAAACCCGTGCCTTAGCAATCCTTGCAAAAACATGG  
 CATGTGCAGAGATGGCTGGAACAGATACGTCTGCGATTGCTCCGGAACAGGCTATCTCGGCAGGTCTGT  
 GAGAGAGAGGCAACGGTTTTGAGCTACGACGGGAGCATGTTTCATGAAAAATCCAGCTTCCGGTGGTATGC  
 ACACTGAGGCTGAGGACGTGTCCTTGCGGTTCCGATCCCAGCGTGCATATGGTATCCTGATGGCGACCAC  
 TTCTAGAGACTCTGCAGACACCTTCGATTGGAGCTAGATGCAGGACGTGTGAACTCACGGTCAATCTA  
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 AGCCATGACAGGCCAAATGGCAGGTGATCATAAAGGCTGGAGTTTCATAACATAGAGACAGGCATCATC  
 ACCGAACGACGCTACCTTCTTCTGTCCTCCATTTTATTGGGCACCTGCAAAGCCTGACATTTAATG  
 GAATGGCATACATAGACTTGTGCAAAAAATGGTATATAGATTACTGTGAACTCAATGCCAGGTTTGGATT  
 CAGGAACATCATCGCAGATCCTGTCACCTTCAAGACCAAATCGAGCTATGTTGCCTTAGCTACATTGCAA  
 GCCTACACCTCTATGCATCTATTTTTCAATTCAGACAACATCTCTAGATGGACTAATTCTGTATAACA  
 GTGGGGATGGAATGACTTTATTGTGGTTGAATTAGTTAAAGGGTACTTACATTATGTGTTTACTTGGG  
 AAACGGTGCTAACCTCATCAAAGGGAGCTCAAACAAACCACTCAACGACAATCAGTGGCACAATGTGATG  
 ATTTACGGGACACCAGCAATCTCCACACAGTAAAGATCGACACAAAAATCACAACACAAATCACTGCGG  
 GAGCCAGAAATCTAGACCTCAAGAGTGACTTGTATATTGGAGGAGTGGCTAAAGAAACATATAAAATCCCT  
 GCCAAAACTGGTCCATGCCAAAGAAGGCTTTCAAGGTTGCCTGGCATCTGTGGACTTGAATGGCAGACTT  
 CCAGATCTCATCTCGGATGCTCTTCTGCAATGGGCAAATTGAGAGAGGATGCGAAGGGCCAGCACAA  
 CCTGCCAAGAGGATTCATGTTCAATCAAGGCTTTGCTTGCAGCAATGGGATGGCTTACGCTGTGACTG  
 TAGCATGACTTCTTCAAGTGGCCACTCTGCAATGACCCTGGGACAACATATATCTTTAGCAAAGGTGGT  
 GGACAGATTACATATAAGTGGCCTCCCAATGACCGCCCCAGTACACGAGCAGACAGGCTGGCCATCGGAT  
 TTAGCACTGTCCAGAAGGAAGCCGTGTTGGTGCCTGTGGACAGTTCTCAGGACTGGGTGACTACCTGGA  
 GCTGCACATACACCAAGGAAAAATTGGAGTTAAGTTAATGTTGGGACAGATGACATCGCCATCGAAGAG  
 TCTAATGCAATCATTAAATGATGGGAAATACCATGTAGTACGTTTCAAGGAGTGGTGGCAATGCCACGT  
 TACAGGTGGACAGCTGGCCAGTTATCGAACGCTACCCTGCAGGAAACAATGATAACGAGCGCCTGGCGAT  
 TGCTAGACAGCGAATCCATATCGACTTGGTCGAGTAGTTGATGAATGGCTACTCGACAAGGGCGTCAG  
 CTCACAATCTTCAATAGCCAAGCAACCAATAAATTTGGCGGAAAGAGCAGGGCCAGCCCTTCCAGGGCC  
 AGCTCTCTGGTCTTACTACAATGGCTTGAAGTTCTGAATATGGCAGCAGAGAACGATGCCAACATCGC  
 CATAGTGGGGAATGTGAGGCTGGTGGTGAAGTGCCTTCTCTATGACAACTGAGTCGACAGCCACTGCC  
 ATGCAGTCTGAGATGTCCACCTCAATCATGGAGACCACCACAACCCTGGTACCAGCACAGCTAGAAGAG  
 GCAAGCCCCCACAAGGAACCCATCAGCCAGACCACAGATGACATCCTTGTGGCCTCGGCAGAGTGTCC  
 CAGTGACGATGAGGACATTGACCCTGTGAGCCGAGCTCAGGTGGTTAGCCAACCCACCAGAGTAGGT  
 GGCCGTGAACCATACCCAGGCTCTGCAGAGGTGATTGGGAGTCCAGCAGTACCACTGGCATGGTGGTGG  
 GGATTGTGCGCAGCAGCCGCTCTGTGCATCCTCATCCTCCTCTATGCCATGTACAAGTACAGGAACCGGGA  
 TGAAGGTCGTACCACGTGGATGAGAGTCGAACTACATCAGTAACTCAGCACAGTCCAATGGGGCTGTG  
 GTCAAGGAGAAGCAACCCAGCAGTGCTAAAAGCGCCAACAAAAACAAGAAAAACAAGGATTAAGGAGTATT  
 ACGTCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII  
 ACCN: NM\_177284  
 Insert Size: 4488 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177284.2</a> , <a href="#">NP_796258.2</a>
<b>RefSeq Size:</b>	9004 bp
<b>RefSeq ORF:</b>	4488 bp
<b>Locus ID:</b>	18189
<b>UniProt ID:</b>	<a href="#">Q9CS84</a>
<b>Cytogenetics:</b>	17 E5
<b>Gene Summary:</b>	<p>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. Alternative splicing and promoter usage result in multiple transcript variants. [provided by RefSeq, Nov 2016]</p>