

## Product datasheet for MC224615

### Nrxn1 (NM\_020252) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nrxn1 (NM\_020252) 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:** >MC224615 representing NM\_020252  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGC

ATGGGGACGGCGCTGGTCCAGCGCGGGGCTGCTGTCTCCTCTGCCTGTCGCTGCTGCTGCTGGGCTGCT  
 GGGCAGAGCTGGGCAGCGGGCTGGAGTCCCAGGGCGCCGAGGGCCAGTGGACGCGCTTCCCAAGTGAA  
 CGCGTGTGCGAGAGCGAGATGAGCTTCCAGCTGAAGACGCGCAGTGCCGCGGCCCTCGTCTACTTC  
 GACGACGAGGGCTTCTGCGACTTCTCGAGCTCATCTGACGCGCGCGGCCGCCTGCAGCTCAGCTTCT  
 CCATCTTCTGCGCCGAGCCCGCCACGCTGTTGGCCGACACGCCGGTCAACGACGGCGCCTGGCACAGCGT  
 GCGCATCCGCCCGAGTCCGCAACACCACGCTCTACATCGACCGCGCCGAGGCCAAGTGGTGGAGGTC  
 AAGTCCAAGCGCAGGGACATGACGGTGTTCAGCGGGCTCTTCTGGGGCGCCTGCCACCCGAAGTGGCGG  
 CCGCGGCCCTCAAGCTCACGCTGGCCTCGGTGCGCGAGCGGAGCCCTCAAGGGCTGGATCCGTGACGT  
 CCGGGTCAACTCGTCACAGGCCCTGCCGGTGGACGGCGGCGAGGTCAAGCTGGACGACGAGCCTCCCAAC  
 AGCGGTGGCGGGAGCCCATGCGAGGCGGGGAAGAAGGCGAGGGCGCGTGTCCCTCAACGGGGCGTGT  
 GCTCCGTGGTGCAGCAGCCAGCCGATGCGACTGCTCGAGGACCGGCTTCCGTGGCAAGGACTGCAGCCA  
 AGAAGACAACAATGTGAAGGTCTGGCACACCTGATGATGGGCGACCAAGGTAAGTAAGGAAAAAGAA  
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 GCAGTGATGAAATAACTCTGTCTTTAAAACCTTCAAAGGAACGGACTGATGCTTACACAGGGAAATC  
 AGCTGATTATGTCAATCTTGCAATGAAAAATGGAGCTGTCTCTGGTCAATATTTGGGATCAGGGGCC  
 TTTGAAGCACTAGTGGAGCCTGTGAATGGAAAGTTAATGATAATGCCTGGCATGATGTGAAAGTACCA  
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 AACGGGCTACACGCAAGAAGATTACACCATGCTGGGGTCTGATGACTTTTCTATGTTGGAGGCAGCCCC  
 AGCACAGCCGACCTTCCAGGGTACCAGTCAGTAACAACCTTTATGGGCTGTCTCAAAGAGTTGTATATA  
 AAAATAATGATGTAAGGCTGGAATTATCGCGACTTGCCAAAGCAAGGAGATCCTAAGATGAAGATTCACGG  
 TGTGGTGGCTTTAAGTGTGAAAATGTGGCAACCTTAGACCCAATAAATTTTGGACCCCGGAATCTTTT  
 ATTTCTTTGCCTAAGTGAATGCAAAGAAAACAGGCTCAATATCATTTGATTTCCGTACAACGGAGCCAA



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ATGGCCTCATCTGTTTAGCCATGGCAAGCCAAGACATCAGAAGGATGCCAAGCACCCACAGATGATTAA  
 GGTTGACTTTTTGCTATTGAGATGCTGGATGGCCACTGTACCTCCTCTTAGACATGGGATCAGGACT  
 AAAAAATCAAAGCCCTGCAGAAGAAAGTCAATGATGGAGAATGGTATCACGTGGATTTCCAACGGGATG  
 GACGGTCAGGTACCATTTCTGTCAACACACTACGCACTCCCTACACAGCTCCCGGTGAGAGTGAGATCCT  
 GGACCTAGATGATGAGTTGTACCTGGGTGGCTTCCAGAAAATAAGGCTGGCCTAGTCTTCCCTACCGAG  
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 AAGACATCCGGCAGATGGCGGAAATTCAGAGCACTGCTGGAGTGAAGCCATCCTGCTCAAAGAGACAGC  
 AAAACCGTGCCTTAGCAATCCTTGCAAAAACAATGGCATGTGCAGAGATGGCTGGAACAGATACGTCTGC  
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 GCATGTTTCATGAAAATCCAGCTTCCGGTGGTATGCACACTGAGGCTGAGGACGTGCTTTCGCGTTCCG  
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 GTCCTGAGACCCTTTTGTGGCTATAACCTCAATGATAATGAATGGCACACAGTGCCTGTGGTTCGGCG  
 AGGAAAAAGTTTAAAGCTAACCGTGGATGATCAACAAGCCATGACAGGCCAAATGGCAGGTGATCATACA  
 AGGCTGGAGTTTCATAACATAGAGACAGGCATCATACCGAACGACGCTACCTTCTTCTGTCCCTCCA  
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 TATAGATTACTGTGAACTCAATGCCAGGTTGGATTTCAGGAACATCATCGAGATCCTGTACCTTCAAG  
 ACCAAATCGAGCTATGTTGCCTTAGCTACATTGCAAGCCTACACCTCTATGCATCTATTTTTCCAATTCA  
 AGACAACATCTCTAGATGGACTAATTCTGTATAACAGTGGGGATGGAAATGACTTTATTGTGGTTGAATT  
 AGTTAAAGGGTACTTACATTATGTGTTTACTTGGGAAACGGTGTCAACCTCATCAAAGGGAGCTCAAAC  
 AAACCACTCAACGACAATCAGTGGCACAATGTGATGATTTACGGGACACCAGCAATCTCCACACAGTAA  
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 TATTGGAGGAGTGGCTAAAGAAACATATAAATCCCTGCCAAAACCTGGTCCATGCCAAAGAAGCTTTCAA  
 GGTTGCCTGGCATCTGTGGACTTGAATGGCAGACTTCCAGATCTCATCTCGGATGCTCTTCTGCAATG  
 GGCAAATTGAGAGAGGATGCGAAGGGCCAGCACAACCTGCCAAGAGGATTCATGTTCAATCAAGGCGT  
 TTGCTTGCAGCAATGGGATGGCTTACGCTGTGACTGTAGCATGACTTCCCTCAGTGGCCACTCTGCAAT  
 GACCCTGGGACAACATATATCTTTAGCAAAGGTGGTGGACAGATTACATATAAGTGGCCTCCCAATGACC  
 GCCCAGTACACGAGCAGACAGGCTGGCCATCGGATTTAGCACTGTCCAGAAGGAAGCCGTGTTGGTGGC  
 TGTGGACAGTTCCCTCAGGACTGGGTGACTACCTGGAGCTGCACATACCCAAGGAAAAATGGAGTTAAG  
 TTTAATGTTGGGACAGATGACATCGCCATCGAAGAGTCTAATGCAATCATTAAATGATGGGAAATACCATG  
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 CCCTGCAGGAAACAATGATAACGAGCGCTGGCGATTGCTAGACAGCGAATTCATATCGACTTGGTCTGA  
 GTAGTTGATGAATGGCTACTCGACAAAGGGCGTCAGCTACAATCTTCAATAGCCAAGCAACCATAATAA  
 TTGGCGGGAAAGAGCAGGGCCAGCCCTCCAGGGCCAGCTCTCTGGTCTTTACTACAATGGCTTGAAGT  
 TCTGAATATGGCAGCAGAGAACGATGCCAACATCGCCATAGTGGGGAATGTGAGGCTGGTCCGGTGAAGTG  
 CCTTCTCTATGACAACCTGAGTCGACAGCCACTGCCATGCAGTCTGAGATGTCCACCTCAATCATGGAGA  
 CCACCACAACCTGGCTACCAGCACAGCTAGAAGAGGCAAGCCCCCAAAAGGAACCCATCAGCCAGAC  
 CACAGATGACATCCTTGTGGCTCGGCAGAGTGTCCCAGTACGATGAGGACATTGACCCCTGTGAGCCG  
 AGCTCAGGTGGTTAGCCAACCCACCAGAGTGGTGGCCGTGAACCATACCCAGGCTCTGCAGAGGTGA  
 TTCGGGAGTCCAGCAGTACCACTGGCATGGTGGTGGGATTGTGCGAGCAGCCGCTCTGTGCATCCTCAT  
 CCTCCTCTATGCCATGTACAAGTACAGGAACCGGGATGAAGGGTTCGTACCACGTGGATGAGAGTCAAAC  
 TACATCAGTAACTCAGCACAGTCCAATGGGGCTGTGGTCAAGGAGAAGCAACCCAGCAGTCTAAAAGCG  
 CCAACAAAAACAAGAAAAACAAGGATAAGGAGTATTACGCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-RsrII  
 ACCN: NM\_020252  
 Insert Size: 4524 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_020252.3</a> , <a href="#">NP_064648.3</a>
<b>RefSeq Size:</b>	9040 bp
<b>RefSeq ORF:</b>	4524 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>