

## Product datasheet for TP526542

### Nrxn1 (NM\_020252) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse neurexin I (Nrxn1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226542 representing NM_020252 Red=Cloning site Green=Tags(s)

MGTALVQRGGCCLLCLLLLLGCWAELGSGLEFPGAEGQWTRFPKWNACCSEMSFQLKTRSARGLVLYF  
DDEGFCDLELILTRGGRLQLSFSIFCAEPATLLADTPVNDGAWHSVRIRRRFRNTTLYIDRAEAKWVEV  
KSKRRDMTVFSGLFVGGPLPELRAAALKLTLASVREREPFKGWIRDVVRVNSSQALPVDGGEVKLDDEPPN  
SGGGSPCEAGEEGEGGVCLNGGVCSVWDDQAVCDCSRTGFRGKDCSQEDNNVEGLAHLMMGDQGKSKGKE  
EYIATFKGSEYFCYDLSQNPIQSSSDEITLSFKTLQRNGLMLHTGKSADYVNLALKNAGVSLVINLGS  
GA FEALVEPVNGKFNDNAWHDVKVTRNLRQHSGIGHAMVTISVDGILTTTGYTQEDYTM LGSDDFYVGGSP  
STADLPGPSVSNFMGCLKEVYKNNVRLSRLAKQGDPKMKIHGVVAFKCNVATLDPITFETPESF  
ISLPKWNAAKKTGSISFDFRTEPNGLILFSHGKPRHQKDAKHPQMIKVDFFAIEMLDGHLYLLLDMGSGT  
IKIKALQKKVNDGEWYHVDVDFQRDGRSGTISVNTLRTPYTAPGESEILDDELYLGGLPENKAGLVFPTE  
VWTALLNYGYVGCIRDLFIDGQSKDIRQMAEIQSTAGVKPSCSKETAKPCLSNPCKNNGMCRDGNRYVC  
DCSGTGYLGRSCREATVLSYDGSFMFKIQLPVMHTEAEDVSLRFRSQRAYGILMATTSRDSADTLRLE  
LDAGRVLKLVNLDLDCIRINCNSSKGPETL FAGYNLNDNEWHTVRVRRGKSLKLTVDQDQAMTGMAGDHT  
RLEFHNIETGIITERRYLSSVPSNFIGHLQSLTFNGMAYIDLCKNGDIDYCELNARFGFRNIIADPVTFK  
TKSSYVALATLQAYTSMHLFFQFKTTSLDGLILYNSGDGNDFIVVELVKGYLHYVFDLNGANLIKSSN  
KPLNDNQWHNVMISRDTSNLHTVKIDTKITQITAGARNLDLKS DLYIGGVAKETYKSLPKLVHAKEGFQ  
GCLASVDLNGRLPDLISDALFCNGQIERGCEGPSTTCQEDSCSNQGVCLQQWDGFSCDCSMTSFSGLPCN  
DPGTTYIFSKGGGQITYKWPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLDYLELHIHQKIGVK  
FNVGTDIAIEESNAIINDGKYHVRFRTRSGGNATLQVDSWPVIERYPAGNNDNERLAIARQIPYRLGR  
VWDEWLLDKGRQLTIFNSQATIIIGGKEQGQPFQGLSGLYNGLKVNLMAAENDANIAIVGNVRLVGEV  
PSSMTTESTATAMQSEMSTSIMETTTTLLATSTARRGKPPTKEPISQTTDDILVASAECPSDDEDIDPCEP  
SSGGLANPTRVGGREPYPGSAEVIRESSSTGMVVGIVAAAALCILILLYAMYKYRNRDEGSYHVDES RN  
YISNSAQSN GAVVKEKQPSSAKSANKNKKNDKEYYY

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV



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<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	165.8 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_064648</a>
<b>Locus ID:</b>	18189
<b>UniProt ID:</b>	<a href="#">Q9CS84</a>
<b>RefSeq Size:</b>	9040
<b>Cytogenetics:</b>	17 E5
<b>RefSeq ORF:</b>	4521
<b>Synonyms:</b>	1700062G21Rik; 9330127H16Rik; A230068P09Rik; mKIAA0578
<b>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>