NLGN4X cDNA Clone – Neuroligin 4, X-Linked (Human)

PRODUCT OVERVIEW

Product Name	NLGN4X, cDNA Clone
Full Product Name	NLGN4X cDNA Clone
Product Gene Name	NLGN4X cdna clone
Sequence	atgtcacggc cccagggact gctatggctt cctttgttgt tcaccccggt ctgcgtcatg ttaaactcca atgtcctcct gtggttaact gctcttgcca tcaagttcac cctcattgac agccaagcac agtatccagt tgtcaacaca aattatggca aaatccgggg cctaagaaca ccgttaccca atgagatctt gggtccagtg gagcagtact taggggtccc ctatgcctca ccccccactg gagagaggcg gtttcagccc ccagaacccc cgtcctcctg gactggcatc cgaaatacta ctcagtttgc tgctgtgtgc ccccagcacc tggatgagag atccttactg catgacatgc tgcccatctg gtttaccgcc aatttggata ctttgatgac ctatgttcaa gatcaaaatg aagactgcct ttacttaaac atctacgtgc ccacggaaga tgatattcat gatcagaaca gtaagaagcc cgtcatggtc tatatccatg ggggatctta catggagggc accggcaaca tgattgacgg cagcattttg gcaagctacg gaaacgtcat tgtgatcacc attaactacc gtctgggaat actagggttt ttaagtaccg gtgaccaggc agcaaaaggc aactatgggc tcctggatca gattcaagca ctgcggtgga ttgaggagaa tgtgggagcc tttggcgggg accccaagag agtgaccatc tttggctcgg gggctggggc ctcctgtgtc agcctgttga ccctgtccca ctactcagaa ggtctcttcc agaaggccat cattcagagc ggcaccgccc tgtccagctg ggcagtgaac taccagccgg ccaagtacac tcggatattg gcagacaagg tcggctgcaa catgctggac accacggaca tggtagaatg cctgcggaac aagaactaca aggagctcat ccagcagacc atcaccccgg ccacctacca catagccttc gggccggtga tcgacggcga cgtcatccca gacgaccccc agatcctgat ggagcaaggc gagttcctca actacgacat catgctgggc gtcaaccaag gggaaggcct gaagttcgtg gacggcatcg tggataacga ggacggtgtg acgcccaacg actttgactt ctccgtgtcc aacttcgtgg acaaccttta cggctaccct gaagggaaag acactttgcg ggagactatc aagttcatgt acacagactg ggccgataag gaaaacccgg agacgcggcg gaaaaccctg gtggctctct ttactgacca ccagtgggtg gcccccgccg tggccaccgc cgacctgcac gcgcagtacg gctcccccac ctacttctat gccttctatc atcactgcca aagcgaaatg aagcccagct gggcagattc ggcccatggt gatgaggtcc cctatgtctt cggcatcccc atgatcggtc ccaccgagct cttcagttgt aacttttcca agaacgacgt catgctcagc gccgtggtca tgacctactg gacgaacttc gccaaaactg gtgatccaaa tcaaccagtt cctcaggata ccaagttcat tcacacaaaa cccaaccgct ttgaagaagt ggcctggtcc aagtataatc ccaaagacca gctctatctg catattggct tgaaacccag agtgagagat cactaccggg caacgaaagt ggctttctgg ttggaactcg ttcctcattt gcacaacttg aacgagatat tccagtatgt ttcaacaacc acaaaggttc ctccaccaga catgacatca tttccctatg gcacccggcg atctcccgcc aagatatggc caaccaccaa acgcccagca atcactcctg ccaacaatcc caaacactct aaggaccctc acaaaacagg gcctgaggac acaactgtcc tcattgaaac caaacgagat tattccaccg aattaagtgt caccattgcc gtcggggcgt cgctcctctt cctcaacatc ttagcttttg cggcgctgta ctacaaaaag gacaagaggc gccatgagac tcacaggcgc cccagtcccc agagaaacac cacaaatgat atcgctcaca tccagaacga agagatcatg tctctgcaga tgaagcagct ggaacacgat cacgagtgtg agtcgctgca ggcacacgac acactgaggc tcacctgccc gccagactac accctcacgc tgcgccggtc gccagatgac atcccactta tgacgccaaa caccatcacc atgattccaa acacactgac ggggatgcag cctttgcaca cttttaacac cttcagtgga ggacaaaaca gtacaaattt accccacgga cattccacca ctagagtata g
Molecular Weight	94,047 Da
OMIM	300427
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NLGN4X cdna clone	MBS1271117 is a cDNA clone targeting NLGN4X.
Other Notes	Small volumes of NLGN4X cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLGN4X. It may not necessarily be applicable to this product.

NCBI GI #	21706446
NCBI GeneID	57502

NCBI Accession #	BC034018
UniProt Secondary Accession #	Q6UX10; Q9ULG0
UniProt Related Accession #	Q8N0W4
NCBI Official Full Name	Homo sapiens neuroligin 4, X-linked, mRNA
NCBI Official Synonym Full Names	neuroligin 4, X-linked
NCBI Official Symbol	NLGN4X
NCBI Official Synonym Symbols	HLNX; HNL4X; NLGN4; ASPGX2; AUTSX2
UniProt Protein Name	Neuroligin-4, X-linked
UniProt Synonym Protein Names	HNLX
Protein Family	Neuroligin
UniProt Gene Name	NLGN4X
UniProt Synonym Gene Names	KIAA1260; NLGN4; Neuroligin X
UniProt Entry Name	NLGNX_HUMAN
NCBI Protein Information	neuroligin-4, X-linked
NCBI Summary for NLGN4X	This gene encodes a member of the type-B carboxylesterase/lipase protein family. The encoded protein belongs to a family of neuronal cell surface proteins. Members of this family may act as splice site-specific ligands for beta-neurexins and may be involved in the formation and remodeling of central nervous system synapses. The encoded protein interacts with discs large homolog 4 (DLG4). Mutations in this gene have been associated with autism and Asperger syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
UniProt Comments for NLGN4X	NLGN4X: Putative neuronal cell surface protein involved in cell- cell-interactions. Defects in NLGN4X may be the cause of susceptibility to autism X-linked type 2 (AUTSX2). AUTSX2 is a pervasive developmental disorder (PDD), prototypically characterized by impairments in reciprocal social interaction and communication, restricted and stereotyped patterns of interests and activities, and the presence of developmental abnormalities by 3 years of age. Defects in NLGN4X may be the cause of susceptibility to X-linked Asperger syndrome 2 (ASPGX2). ASPGX2 is considered to be a form of childhood autism. Belongs to the type-B carboxylesterase/lipase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: Xp22.33 Cellular Component: cell surface; dendrite; excitatory synapse; extracellular space; integral to plasma membrane; plasma membrane; synapse Molecular Function: cell adhesion molecule binding; chloride ion binding; neurexin binding; protein binding; protein homodimerization activity; receptor activity Biological Process: adult behavior; cerebellum development; learning; neuron adhesion; organ growth; social behavior; synapse organization and biogenesis Disease: Asperger Syndrome, X-linked, Susceptibility To, 2; Autism, Susceptibility To, X-linked 2
Research Articles on NLGN4X	**1.** Endogenous NLGN4X is intensely phosphorylated on T707 upon PKC stimulation in human neurons.
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