

Product datasheet for **RC204671**

Neuroigin 4 (NLGN4X) (NM_181332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4X) (NM_181332) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuroigin 4
Synonyms:	ASPGX2; AUTSX2; HLNX; HNL4X; NLGN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC204671 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACGGCCCCAGGGACTGCTATGGCTTCCTTTGTTGTTACCCCGGTCTGCGTCATGTTAAACTCCA
 ATGTCCTCCTGTGGTTAACTGCTCTTGCCATCAAGTTCACCCCTATTGACAGCCAAGCACAGTATCCAGT
 TGTC AACACAAATTATGGCAAAATCCGGGGCCTAAGAACACCGTTACCCAATGAGATCTTGGGTCCAGTG
 GAGCAGTACTTAGGGGTCCCCTATGCCTCACCCCCACTGGAGAGAGCGGTTTCAGCCCCAGAACCCC
 CGTCTCCTGGACTGGCATCCGAAATACTACTCAGTTTGTGCTGTGCCCCCAGCACCTGGATGAGAG
 ATCCTTACTGCATGACATGCTGCCCATCTGGTTTACCGCAATTTGGATACTTTGATGACCTATGTTCAA
 GATCAAAATGAAGACTGCCTTTACTTAAACATCTACGTGCCACGGAAGATGATATTCATGATCAGAACA
 GTAAGAAGCCCGTCATGGTCTATATCCATGGGGGATCTTACATGGAGGGCACCGGCAACATGATTGACGG
 CAGCATTTTGGCAAGCTACGGAACGTCATTGTGATCACCATTAACCTACCGTCTGGGAATACTAGGGTTT
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 TTGAGGAGAATGTGGGAGCCTTTGGCGGGACCCCAAGAGAGTGACCATCTTTGGCTCGGGGGCTGGGGC
 CTCCTGTGTGACGCTGTTGACCTGTCCCCTACTCAGAAGGTCTCTTCCAGAAGGCCATCATTAGAGC
 GGCACCGCCCTGTCCAGCTGGGAGTGAAGTACCAGCCGCAAGTACACTCGGATATTGGCAGACAAGG
 TCGGCTGCAACATGCTGGACACCACGGACATGGTAGAATGCCTGCGGAACAAGAATAACAAGGAGTCAT
 CCAGCAGACCATCACCCGGCCACTACCATAGCCTTCGGGCCGGTATCGACGGCGAGTCATCCCA
 GACGACCCCGAGTCTGATGGAGCAAGCGAGTTCCTCAACTACGACATCATGCTGGGCGTCAACCAAG
 GGAAGGCTGAAGTTCGTGGACGGCATCGTGGATAACGAGGACGGTGTGACGCCCAACGACTTTGACTT
 CTCGCTGCCAACTTCGTGGACAACCTTTACGGCTACCCTGAAGGAAAGACACTTTGCGGGAGACTATC
 AAGTTCATGTACACAGACTGGGCGGATAAGGAAAACCCGAGACGCGGGGAAAACCTGGTGGCTCTCT
 TTAAGTACAGGAGTGGGTGGCCCCGCGTGGCCACCGCCGACCTGCACGCGCAGTACGGCTCCCCAC
 CTACTTCTATGCCTTCTATCATCACTGCCAAAGCGAAATGAAGCCAGCTGGGCAGATTCGGCCATGGT
 GATGAGGTCCCCTATGTCTTCGGCATCCCATGATCGGTCCCACCGAGCTCTTCACTTTGAACTTTTCCA
 AGAACGACGTGCTCAGCGCCGTGGTACATGACCTACTGGACGAACTTCGCCAAAACCTGGTATCCAAA
 TCAACCAGTTCCTCAGGATACCAAGTTCATTACACAAAACCCAAACCGCTTTGAAGAAGTGGCCTGGTCC
 AAGTATAATCCCAAAGACAGCTCTATCTGCATATTGGCTTGAAACCCAGAGTGAGAGATCACTACCGGG
 CAACGAAAGTGGCTTTCTGGTTGGAACCTGTTCCCTCATTGACACAACCTGAACGAGATATCCAGTATGT
 TTCAACAACCAAAAGGTTCTCCACCAGACATGACATCATTTCCCTATGGCACCCCGCGATCTCCCGCC
 AAGATATGGCAAACCAAAACGCCAGCAATCACTCCTGCCAACAATCCCAAACACTCTAAGGACCCCTC
 ACAAACAGGGCCTGAGGACACAACCTGTCTCATTGAAACCAAACGAGATTATCCACCGAATTAAGTGT
 CACCATTGCCGTGCGGGCGTGCCTCTTCTCAACATCTTAGCTTTTGGCGGCTGTACTACAAAAG
 GACAAGAGGCGCCATGAGACTCACAGGCGCCCCAGTCCCAGAGAAACACCACAAATGATATCGCTCACA
 TCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCTGGAACACGATCACGAGTGTGAGTGCCTGCA
 GGCACACGACACTGAGGCTCACCTGCCCGCCAGACTACACCCTCACGCTGCGCCGGTCGCCAGATGAC
 ATCCCCTTATGACGCCAAACACCATCACCATGATTCCAAACACACTGACGGGGATGCAGCTTTGCACA
 CTTTTAACACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCCACCCTAGAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204671 protein sequence
Red=Cloning site Green=Tags(s)

MSRPQGLLWPLLFTPVCVMLNSNVLLWLTALAIKFTLIDSQAQYPVVNTNYGKIRGLRTPLPNEILGPV
EQYLGVPYASPTGERRFPPEPPSSWTGIRNTTQFAAVCPQHLDERSLLHDMLPIWFTANLDTLMTYVQ
DQNEDECLYLNIIYVPTEDDIHDQNSKKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGF
LSTGDQAAKGNYGLLDQIQALRWIEENVGAFGGDPKRVTFGSGAGASCVSLTLTSHYSEGLFQKAIQS
GTALSSWAVNYQPAKYTRILADKVGCMMLDTTDMVECLRKNKYKELIQQTITPATYHIAFGPVIDGDVIP
DDPQILMEQGEFLNYDIMLGVNQGEGLKFVDGIVDNEGDVTPNDFDFSVSNFVDNLYGYPEGKDTLRETI
KFMYTDWADKENPERRKTLVALFTDHQWVAPAVATADLHAQYGSPTYFYAFYHHCQSEMKPSWADSAHG
DEVYVYFGIPMIGPTLFSNFSKNDVMLSAVVMYWTNFAKTGDPNQVPQDTKFIHTKPNRFEEVAWS
KYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNLNEIFQYVSTTTKVPDDMTSFPYGTTRSPA
KIWPTTKRPAITPANNPKHSDPHKTGPEDTTVL IETKRDYSTE SVTIAVGASLLFLNILAFAALYYKK
DKRRHETHRRPSPQRNTNDIAHIQNEEIMSLQMKQLEHDHECESLQAHTLRLTCPDPYTLTLRRSPDD
IPLMTPNTITMIPNTLTGMQPLHTFNTFSGGQNSTNLPHGHSTTRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6690_h08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_181332

ORF Size: 2448 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_181332.3](#)

RefSeq Size: 5889 bp

RefSeq ORF: 2451 bp

Locus ID: 57502

UniProt ID: [Q8N0W4](#)

Cytogenetics: Xp22.32-p22.31

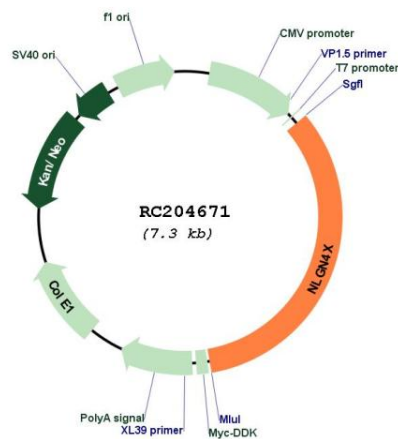
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

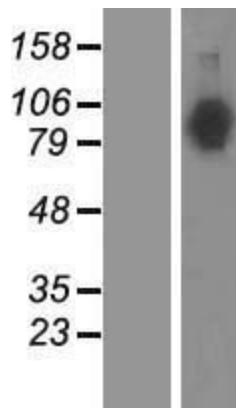
MW: 91.9 kDa

Gene Summary: 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]

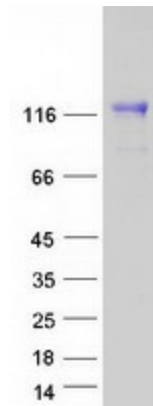
Product images:



Circular map for RC204671



Western blot validation of overexpression lysate (Cat# [LY405787]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204671 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NLGN4X protein (Cat# [TP304671]). The protein was produced from HEK293T cells transfected with NLGN4X cDNA clone (Cat# RC204671) using MegaTran 2.0 (Cat# [TT210002]).