

Specifications:

Gene:	hNLGN4X
Accession:	NP_001269074.1
Insert size:	2464bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

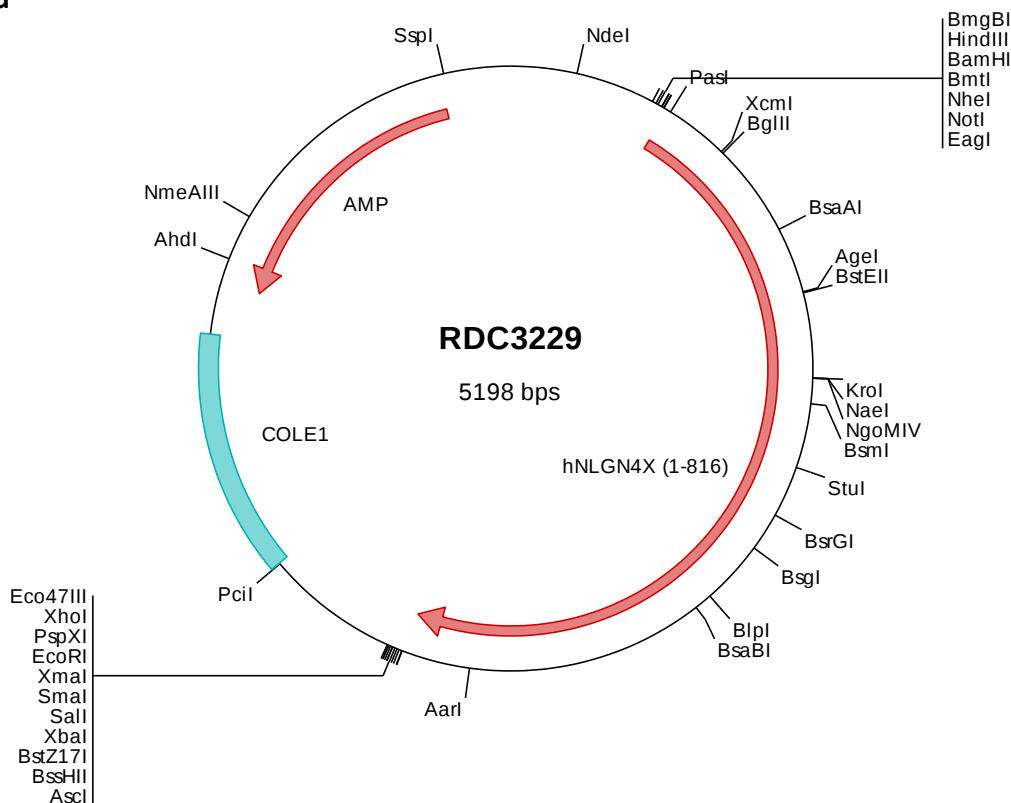
**hNeurologin
4X/NLGN4X cDNA
Plasmid**

NLGN4X neurologin 4 X-linked
[*Homo sapiens* (human)]

Also known as: HLN4X; HNL4X;
NLGN4; ASPGX2; AUTSX2

Summary:

NLGN4X is a member of the type-B carboxylesterase/ lipase protein family. It 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. NLGN4X interacts with discs large homolog 4 (DLG4). Mutations in NLGN4X have been associated with autism and Asperger syndrome. Alternatively spliced transcripts encoding different proteins have been described.



> RDC3229 Plasmid DNA Sequence

```

1  tcgcgcgcttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccg  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggaatgtgtg  caaggcgatt  aagttgggta  acgccagggt  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccaac  atgtcaaggc  cccagggaact  gctatggctt  cctttgttgt  tcaccocggt
501  ctgcgtcatg  ttaaaactcca  atgtctctct  gtggttaact  gctcttgcca  tcaagttcac  cctcattgac  agccaagcac  agtatccagt  tgtcaacaca
601  aattatggca  aaatccgggg  cctaagaaca  ccgttaccca  atgagatctt  ggggtccagt  gagcagtaet  taggggtccc  ctatgctcca  cccccactg
701  gagagaggcg  gtttccagccc  ccagaacccc  cgtctctctg  gactggcatt  cgaataacta  ctcaagtttg  tgctgtgtgc  cccagcacc  tggatgagag
801  atccttactg  catgacatgc  tgcccatctg  gtttacccgc  aatttggata  cttttagtac  ctatgttcaa  gatcaaaatg  aagactgcct  ttacttaaac
901  atctactgtc  ccacggaaga  tgatattcat  gatcagaaca  gtaagaagcc  cgtcatggte  tatatccatg  ggggatctta  catggagggc  accggcaaca
1001  tgattgacgg  cagcattttg  gcaagctacg  gaaacgtcat  tgtgatcacc  attaaactac  gtctgggaat  actagggttt  ttaagtaccg  gtgaccagcg
1101  agcaaaaggc  aactatgggc  tcttgatcca  gattcaagca  ctgcggtgga  ttgaggagaa  tgtgggagcc  tttggcgggg  accccaagag  agtgaccate
1201  tttggctcgg  gggctggggc  ctctgtgttc  agcctgttga  cctctgtcca  ctactcagaa  ggtctcttcc  agaaggccat  cattcagagc  ggcacgcgcc
1301  ttctcagctg  ggcagtgaa  taaccagccc  ccaagtcacg  tcggatattg  gcagacaagg  tcggctgcaa  catgctggac  accacggaca  tggtagaatg
1401  cctgcggaac  aagaactaca  aggagctcat  ccagcagacc  atcaccocgg  ccacttacca  catagccttc  gggcgcgtga  tcgacggcga  cgtcatccca
1501  gacgaccccc  agatctctat  ggagcaaggc  gaggttctca  actacgacat  actgtctggc  gtcaaccaag  ggggaaggcc  gaagtctgtg  gacggcatcg
1601  tgattgacgg  ggcaggtgtg  acgccaacg  acttctgact  ctctgtgttc  caactctgtg  acaaccttta  cggctaccct  gaagggaaag  acactttgcg
1701  ggagactatc  aagttcatgt  acacagactg  ggccgataag  gaaaacccgg  agacgcggcg  gaaaacccctg  gtggctctct  ttactgacca  ccagtgggtg
1801  gcccccgccg  tggccacccg  cgactgcac  gcgcagtagc  gctcccccgc  ctacttctat  gccttctatc  atcactgcca  atgcgaaatg  agccccagct
1901  gcccagatgc  ggccaggttc  cctatgtctt  cgtctgtctt  cggcatcccc  atgatcggte  ccaccagact  ctcaagttgt  aacttttoca  aaactttgcg
2001  catgctcagc  gccgtgttca  tgacctactg  gacgaacttc  gccaaaaact  gtgatccaaa  tcaaccagtt  cctcaggata  ccaagtctat  tcacacaaaa
2101  cccaacccgt  ttgaagaagt  ggccgtgttc  aagataatcc  ccaaaagaca  gctctatctg  catattggct  tgaaacccag  agtgagagat  cactacccgg
2201  caacgaaagt  ggtctttctg  ttggaaactg  ttoctcattt  gcacaaactg  gacgagatat  tccagtatgt  ttcaacaacc  acaaaagttc  ctccacacga
2301  catgacatcca  ttccccctat  gcaaccggcg  atctcccgcc  aagatattgg  caaccaccaa  acgcccagca  atcactctgt  ccaacaatcc  caaacactct
2401  aaggaaaccc  acaaaacagg  gccctgaggc  acactgtctc  tcttgaagaa  caaacagatg  tattccaccg  aattaagtgt  caccattgcc  cgtggggcgt
2501  cgctctctct  cctcaacatc  ttagcttttg  cggcgctgta  ctacaaaaag  gacaagaagg  gccatgagac  tcacaggcgc  ccagagtgtg  agtcgctgca
2601  cacaaatgat  atcgtcaca  tcagaaagca  agagatcag  tctctgcaga  tgaagcagat  ggaacacgat  cagcagttgt  agtcgctgca  ggcacacgac
2701  acactgaggc  tcactgcgcc  ccctcacctc  acctcacctc  tgcgcgtgga  gccagatgac  atcccaacta  tgacgccaaa  caccatcacc  atgatcccaa
2801  acacactgac  ggggatgcag  ccttttgaca  ctttttaacc  cttactggga  ggacaaaaaa  gtacaaaatt  accccacgga  cattccacca  ctgagtata
2901  aaggcgcgcc  agtatactct  agagtgcaca  cccggggaat  tctctgagcg  ctctgtctct  gcttggcgta  atcatggtca  tagctgtttc  ctgtgtgaaa
3001  ttgtttcccg  ctcaaatct  cacacaacct  acgacccgga  agcataaagt  gtaaaagctt  ggttgccata  tgagttagct  aactcacatt  aattgcgttg
3101  cgctcactgc  ccgctttcca  gtccggaaac  ctgtcgtgct  agctgcatta  atgaatcgcc  caacgcgcgg  ggagaggcgg  tttgcgtatt  gggcgctctt
3201  ccgcttctct  gctcactgac  tctgtcgctc  cggctcgctc  gctgcggcga  gcggtatcag  ctcaactcaa  ggcgtaata  cggttatcca  cagaatcagg
3301  ggataaccca  ggaagaacaa  tgtgacaaa  aggcagcaca  aagccagga  accgtaaaaa  ggcgcgcttg  ctggcgcttt  tccaatggct  ccgccccctt
3401  gacgagcatc  acaaaaatcg  acgctcaagt  cagagggtgc  gaaacccgac  aggactataa  agataccagg  cgtttccccc  tggaaagctc  ctctgtcgct
3501  ctctctgttc  gacctgcgcg  ctaccaggat  aactgtccgc  ctctctccct  tcgggaaagg  tgggcgcttc  tcaatgtcca  cgctgtaggt  atctcagttc
3601  ggtgtaggtc  ttgctgtcca  agctggcgct  tgtgcacgaa  ccccccgctc  agcccagcgt  ctgcgcctta  tccgtaact  atcgtcttga  gtccaaccgc
3701  gtaagacacg  acttatcgcc  actggcagca  gccactggta  acaggattag  cagagcgagg  tatgtaggcg  gtgtacaga  gttcttgaag  tgggtggcta
3801  actacggcta  cactagaagg  acagtatttg  gtatctgcgc  tctgtgaag  ccagttaact  tcggaaaaag  agttggtagc  tcttgatccg  gcaaaacaa
3901  caccgctggg  agcgggtggt  tttttgtttg  caagcagcag  attacgcgca  gaaaaaaagg  atctcaagaa  gatcctttga  tctttctac  ggggtctgac
4001  gctcagtggg  acgaaaactc  acgttaaggg  attttggta  ttgagattat  aaaaaggatc  ttcacctaga  tccttttaaa  ttaaaaatga  agtttttaat
4101  caatctaaag  tatatatgag  taactttggt  ctgacagtta  ccaattgcta  atcagtgagg  cacctatctc  agcgatctgt  ctatttcggt  catccatagt
4201  tgctgactc  ccgctcgctg  agataactac  gatacgggag  ggcttaccat  ctggccocag  tgctgcaatg  ataccgcgag  acccaagctc  accggtcca
4301  gatttatcag  caataaacca  gccagccgga  agggccgagc  gcagaagtg  tctgtcaact  ttatccgctc  ccatccagtc  tattaattgt  tgccgggaag
4401  cttagagtaag  tagttcgcca  gtttaatagt  tgcccaacgt  tgttgccatt  gctacaggca  tcgtggtgtc  acgctcgctg  tttggtagg  cttcattcag
4501  ctccggttcc  caacgatcaa  ggcgagttac  atgatcccc  atgtttgtga  aaaaagcgg  tagctccttc  ggtcctccga  tctgttgcag  aagtaagttg
4601  gccgcagtgt  tatcactcat  ggttatggca  gcaactgcata  attctcttct  tgctcatgcca  tccgtaagat  gcttttctgt  gactggtgag  tactcaacca
4701  agtcattctg  agaatagtgt  atgcggcgac  cgagttgtct  ttgcccggcg  tcaatacggg  ataataccgc  gccacatagc  agaactttaa  aagtgtctat
4801  cattggaaaa  cgttcttcgg  ggcgaaaact  ctcaaggatc  ttaccgctgt  ttgagatccg  ttcgatgtaa  cccactcggt  caccacactg  atcttcagca
4901  tcttttactt  tcaccagcgt  tctgtgggtg  gcaaaaacag  gaaggcaaaa  tgccgcaaaa  aagggaataa  gggcgacacg  gaaatgttga  atactcatic
5001  tcttctcttt  tcaatattat  tgaagcattt  atcagggtta  ttgtctcatg  agcggataca  tatttgaatg  tatttagaaa  aataaacaaa  taggggttcc
5101  gcgcacattt  ccccgaaaag  tgccacctga  cgtctaagaa  accattatta  tcatgacatt  aacctataaa  aataggcgta  tcacgaggcc  ctttctgc

```

> RDC3229 Translated Insert Sequence

```

1  msrpgqllwl  pllftpvcmv  lnsnvlwlt  alaikftlid  sqaqypvvnt  nygkirglrt  plpneilgpv  eqylgvpypa  pptgerrfqp  peppsswtgi
101  rnttqfaavc  pqhldersll  hdmpliwfta  nldtlmtyvg  dqnedcllyl  iyvpteddi  dqnskkpvmv  yihggsymeg  tgnmidgsil  asygnvivit
201  inyrlgilgf  lstgdqaakg  nygllldiq  lrwieenvga  fgdpdkrvti  fgsgagascv  sltlshyse  glfqkaiiqs  gtalsswavn  yqpakytril
301  adkvgnmdld  ttdmveclrn  knykeliqgt  itpatyhiat  gpvidgdvvp  ddpqilmeqg  eflnydimlg  vnggeglkfv  dgivdnedgv  tpdnfdsvs
401  nfvdnlygyp  egkdtlreti  kfmytdwadk  enpetrrktl  valfdthqvw  apavataidl  aqygsptyfy  afyhqcqsem  kpswadshg  devpyvfqip
501  migptelfsc  nfskndvmls  avvmtywtnf  aktgdpnqpv  pqdtkfihtk  pnrfeevaws  kynpkdqlyl  higlkprvrd  hyratkvafw  lelvpplhnl
601  neifqyvstt  tkvpppdmst  fpygtrrspa  kiwpttkrpa  itpannpkhs  kdpnktpged  ttvlietkrd  ystelsvtia  vgasllflni  lafaalyykk
701  dkrhethrr  pspqrntnnd  iahiqneem  slqmkqlleh  heceslqahd  tlrllrppdy  tllrrspdd  iplmtpntit  mipntltgmq  plhtfntfsg
801  gqnstnlphg  hsttrv

```