

**Specifications:**

Gene:	mPlxn4
Accession:	NP_786926.2
Insert size:	5695bp
Concentration:	10µg at 0.2µg/µL

**mPlexin A4 cDNA  
Plasmid**

**Plxn4 plexin A4 [ *Mus musculus* (house mouse) ]**

**Also known as:** Plxa4; mKIAA1550; 9330117B14

**Summary:**

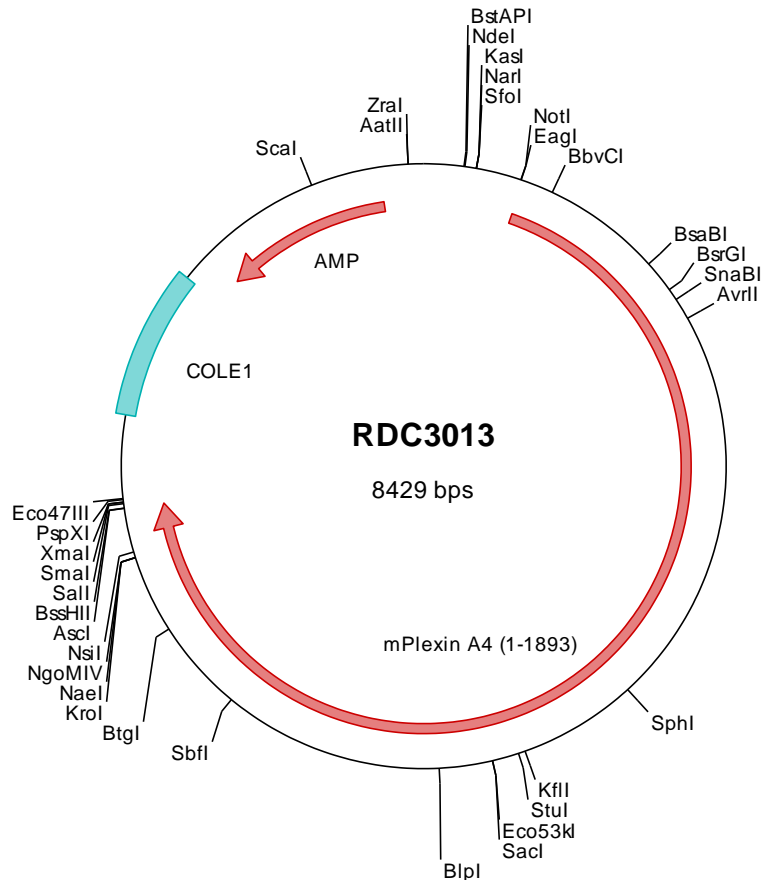
PLXNA4 is a member of the Plexin family of semaphorin signal transducers. It is found on sensory, autonomic and motor neurons and oligodendrocytes, plus T cells and dendritic cells. PLXNA4 regulates cell migration, activation, and axon guidance via repulsion. It serves as a receptor for transmembrane semaphorins, Sema6A and 6B, and as a coreceptor with neuropilin 1 for the secreted semaphorin, Sema3A.

**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.



> RDC3013 Plasmid DNA Sequence

```

1   tcgctgctgtt  cggatgatgac  ggtgaaaacc  totgacacat  gcagctcccg  gagacgggtc  cagcttgtct  gtaagcggat  gccggggaga  gacaagcccg
101  tcagggcgccg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtg  accatattgc  gtgtgaaata
201  ccgcacagat  gcgtaaggag  aaaataccgc  atcaggccgc  attgccatt  caggctcgc  aactgttgg  aagggcgatc  ggtgcccgg  tcttcgctat
301  tacgcccagct  ggcgaaaagg  ggatgtgctg  caaggccgatt  aagttgggta  acgcccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacca  atgaaaagcca  tgccctggaa  ctggacttgc  ctgctctccc  acctgctggt
501  ggtagggatg  ggctcctcca  ctctgcttcc  acgacagcca  ccccagctgt  ctcaagaacc  ttctcttgtg  acattccgag  gggagcctgc  tgagggtctc
601  aatcaacctg  tggtggatga  gaggacaggg  cacatttatt  tgggggctgt  caacagaate  tacaaactct  ctagtgaact  caaagtcttg  gtgactcatc
701  agacagggcc  agatgaggac  gaccocaaagt  gttaccacc  toggattgtt  cagacctgca  atgagcctct  ggccagcacc  aataacgtca  acaagatgtc
801  gcttatagac  tacaagaana  acaggtctgat  cgcgtgtggg  agcctgtacc  agggatctgt  caagctcctg  aggttagagg  acctctcoa  gttgggagag
901  ccttttca  agaaggaaca  ttaactctct  ggggttaacg  agatggctc  catctccagg  aggaactga  ctaagaactc  tgaggccgat  ggcagtgttg  cttactgttt
1001  ttgcccacgc  agtggatggc  aaaactgaat  attttcttac  gatcccttca  gacctttca  cggttatccc  cgactttgac  atctactacg  tctatgctgt
1101  ccatgatgaa  tttgtggcct  ctatgattaa  gatcccttca  gacctttca  cggttatccc  cgactttgac  atctactacg  tctatgctgt  tctatgctgt
1201  aatatttgt  actttttgac  ccttcagcca  gagatggtg  ctccccagc  ctcccagca  aaggagcag  tgttacacct  aaagctctgt  aggtcttgca
1301  aagaggcaac  agcttttaac  ccttcagtag  aggtgcccac  tggctgtgag  cggcaactgc  tggagtacg  ctgtttacag  atctactacg  aaagctctgt  aggtcttgca
1401  ttggtcagtg  cttggccgga  ccttaggagt  cgcgccagat  gacgacctcc  tcttccacct  ctccacgca  aaggagcag  tgttacacct  aaagctctgt  aggtcttgca
1501  gactctgcc  ttgtcatctt  catcttgaag  catgtcaat  atgcattaa  taactcttca  ggaccctct  cagctctgtg  atagggtgca  gggacacta  gactctgctc
1601  ggctcaaggt  gtagtgacac  ccttgcagca  ctctgcagca  ctctgcagca  ctctgcagca  ctctgcagca  ctctgcagca  ctctgcagca  ctctgcagca  ctctgcagca
1701  ggtgctggc  atccagctct  tcacagaaga  cagggaccgc  atgactctct  atgactctct  atgactctct  atgactctct  atgactctct  atgactctct  atgactctct
1801  agtggcaag  tgaagaagat  cgggttggat  gggcccaagg  gaaatgcct  caaactgcct  caaactgcct  caaactgcct  caaactgcct  caaactgcct  caaactgcct
1901  ggccttttc  caagcaacc  gagcaactct  gatcaactct  gatcaactct  gatcaactct  gatcaactct  gatcaactct  gatcaactct  gatcaactct  gatcaactct
2001  gtgtctggc  tcaggtgacc  ccatctgtgg  ctgggtgtgt  ctccacaaca  ctccacaaca  ctccacaaca  ctccacaaca  ctccacaaca  ctccacaaca  ctccacaaca
2101  gctcagaga  tgaagcagtg  ttcccgctg  acgttccat  ttgaagatc  gtcagagatg  gatggctgg  taataggcaa  tcagatccag  tcagatccag  tcagatccag
2201  ccagctgtc  agactgtct  aactgtacct  aactgtacct  aactgtacct  aactgtacct  aactgtacct  aactgtacct  aactgtacct  aactgtacct  aactgtacct
2301  ggaagtggc  cggatcatca  ccgaaaatgt  ggaccatcat  gttgtccagc  gttgtccagc  gttgtccagc  gttgtccagc  gttgtccagc  gttgtccagc  gttgtccagc
2401  ctctctaca  actgcagctg  ccaaaaatca  ccaaaaatca  ccaaaaatca  ccaaaaatca  ccaaaaatca  ccaaaaatca  ccaaaaatca  ccaaaaatca  ccaaaaatca
2501  ccaacacatg  ctccctccag  gaagccgag  tgaagctacc  tgagagctgc  tgagagctgc  tgagagctgc  tgagagctgc  tgagagctgc  tgagagctgc  tgagagctgc
2601  gcccatcact  ctcaagctct  agaactctcc  acagctccag  ctgggtgtgt  ctgggtgtgt  ctgggtgtgt  ctgggtgtgt  ctgggtgtgt  ctgggtgtgt  ctgggtgtgt
2701  gctctgcct  tcaagcctc  agatgtcag  tgtcagaaca  ctccctatc  ctccctatc  ctccctatc  ctccctatc  ctccctatc  ctccctatc  ctccctatc
2801  ggaatggaca  ctccaacatt  gacaaaccag  ctoagaataa  agtttacct  agtttacct  agtttacct  agtttacct  agtttacct  agtttacct  agtttacct
2901  cccgatttc  gactgtggct  ggttctagag  cccagggcag  cgtaccctgc  cgtaccctgc  cgtaccctgc  cgtaccctgc  cgtaccctgc  cgtaccctgc  cgtaccctgc
3001  aacagcaagt  gcaccaacc  tggatcatcc  gagatcatcc  tggatcatcc  tggatcatcc  tggatcatcc  tggatcatcc  tggatcatcc  tggatcatcc  tggatcatcc
3101  tggaaattcc  tgacattgca  tcacacgtga  aagtggctgg  tgtggaatgc  tgtggaatgc  tgtggaatgc  tgtggaatgc  tgtggaatgc  tgtggaatgc  tgtggaatgc
3201  ggtgagggc  aagctcagca  agcatgcagg  ctcttggagg  atctgtgtgt  atctgtgtgt  atctgtgtgt  atctgtgtgt  atctgtgtgt  atctgtgtgt  atctgtgtgt
3301  atgactctga  cctctcaga  aaccgagcc  tctgaagccc  cactgtctgg  cactgtctgg  cactgtctgg  cactgtctgg  cactgtctgg  cactgtctgg  cactgtctgg
3401  ttgtggtgat  gttccgggag  cagccctgcc  tcttccacag  gogctctcca  tcttaccata  tcttaccata  tcttaccata  tcttaccata  tcttaccata  tcttaccata
3501  ggtgactgtc  acagtgagca  ggccccagat  cggccccagat  cggccccagat  cggccccagat  cggccccagat  cggccccagat  cggccccagat  cggccccagat  cggccccagat
3601  ctcaagctga  ccaacacat  tgcctctctg  ggaactcacc  tggactctcc  tggactctcc  tggactctcc  tggactctcc  tggactctcc  tggactctcc  tggactctcc
3701  totgtgaggt  cctaatgtct  acagagatga  cctgccaggg  tocagccct  tocagccct  tocagccct  tocagccct  tocagccct  tocagccct  tocagccct
3801  tggtttcatc  ctggacaatg  tcaagctctc  gctaattctc  acaagaacca  acttcaacct  acttcaacct  acttcaacct  acttcaacct  acttcaacct  acttcaacct
3901  atctcggagc  tcaagccggg  acccccatt  atctcaagg  acaagaacct  acttcaacct  acttcaacct  acttcaacct  acttcaacct  acttcaacct  acttcaacct
4001  ttggggagaa  accatgcacc  gtgacagat  cagatgtgca  gctgctctgc  gctgctctgc  gctgctctgc  gctgctctgc  gctgctctgc  gctgctctgc  gctgctctgc
4101  catggagat  tcccctggga  ttgtatatac  gcgcccagac  agcccgctca  agcccgctca  agcccgctca  agcccgctca  agcccgctca  agcccgctca  agcccgctca
4201  ttcactcgtg  ccgtactcat  tgcctctctg  ggaactcacc  tggactctcc  tggactctcc  tggactctcc  tggactctcc  tggactctcc  tggactctcc  tggactctcc
4301  tggcgttga  gtgcaggaa  gcttttgcg  agctgcagac  agatatacat  agatatacat  agatatacat  agatatacat  agatatacat  agatatacat  agatatacat
4401  aacctatacc  atcgggtgac  tgttcccagg  gattgaagac  caccctgtgc  caccctgtgc  caccctgtgc  caccctgtgc  caccctgtgc  caccctgtgc  caccctgtgc
4501  ctcaagctct  tgcgcaatg  atctcaaac  aaggtgttcc  tgcctctctt  tgcctctctt  tgcctctctt  tgcctctctt  tgcctctctt  tgcctctctt  tgcctctctt
4601  acgtggcctc  cctcatcatg  acggtacttc  agagcaagct  agagtatgct  agagtatgct  agagtatgct  agagtatgct  agagtatgct  agagtatgct  agagtatgct
4701  gagcaagaa  caccocaaag  tgcctctcag  gaggacggag  togtgtccag  togtgtccag  togtgtccag  togtgtccag  togtgtccag  togtgtccag  togtgtccag
4801  gagtgtctgc  gggagcaact  ctctctccct  ttctgtgcca  ttctgtgcca  ttctgtgcca  ttctgtgcca  ttctgtgcca  ttctgtgcca  ttctgtgcca  ttctgtgcca
4901  taagtggaga  caaatcatc  cgacgcaga  ttgaataaa  aaccttggct  aaccttggct  aaccttggct  aaccttggct  aaccttggct  aaccttggct  aaccttggct
5001  gatcctcaac  ttgtaacaca  tcaactcag  caaagagaag  atctctagat  atctctagat  atctctagat  atctctagat  atctctagat  atctctagat  atctctagat
5101  gatctagatg  ggggacaagg  aagtgtggct  aggtatgctc  gtcacaagca  gtcacaagca  gtcacaagca  gtcacaagca  gtcacaagca  gtcacaagca  gtcacaagca
5201  cccactacca  gtaocagat  ggttctgtgg  ttgctttagt  gtccaagcaa  gtccaagcaa  gtccaagcaa  gtccaagcaa  gtccaagcaa  gtccaagcaa  gtccaagcaa
5301  aagtaaaat  gagaacatga  tccggttac  aggcagcctc  gacagctcc  gacagctcc  gacagctcc  gacagctcc  gacagctcc  gacagctcc  gacagctcc
5401  ttggcatctg  tgaagaacca  tgaacatgga  gaccagaagg  agggggaccg  agggggaccg  agggggaccg  agggggaccg  agggggaccg  agggggaccg  agggggaccg
5501  agggcaacct  gcagaagttt  gtggatgacc  tattcgagac  gatcttcaat  gatcttcaat  gatcttcaat  gatcttcaat  gatcttcaat  gatcttcaat  gatcttcaat
5601  ctctctcag  gagcagctg  ataagcagc  catcctagac  cgcacagctc  cgcacagctc  cgcacagctc  cgcacagctc  cgcacagctc  cgcacagctc  cgcacagctc
5701  atcaagaacc  ctacagttgt  gtttgacatc  caaatacagt  gctctatgct  gctctatgct  gctctatgct  gctctatgct  gctctatgct  gctctatgct  gctctatgct
5801  cggagcaccg  actgggcaag  gatctccctc  ccaacaagct  gctctatgct  gctctatgct  gctctatgct  gctctatgct  gctctatgct  gctctatgct  gctctatgct
5901  tgggaagatg  ccggcaataa  gtgaccagga  catgaatgca  tacctggcct  tacctggcct  tacctggcct  tacctggcct  tacctggcct  tacctggcct  tacctggcct
6001  gagactctct  cctatgtggg  caaatacagt  gaggagatcc  ttggaccctc  ttggaccctc  ttggaccctc  ttggaccctc  ttggaccctc  ttggaccctc  ttggaccctc
6101  aagtcataac  tctcatgagc  ttgacagact  aaaggcgcgc  cagtatactc  cagtcatact  cagtcatact  cagtcatact  cagtcatact  cagtcatact  cagtcatact
6201  aatcatggtc  atagctgttt  cctgtgtgaa  attgtttatc  cctcacaatt  cctcacaatt  cctcacaatt  cctcacaatt  cctcacaatt  cctcacaatt  cctcacaatt
6301  atagtgagc  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct  taactcagct
6401  gggagagcgc  gtttgcgctt  ttggcgtctc  tccgcttctc  cgctcactga  cgctcactga  cgctcactga  cgctcactga  cgctcactga  cgctcactga  cgctcactga
6501  agcgggtaat  accggttatc  acagatcag  gggataacgc  aggaagaac  aggaagaac  aggaagaac  aggaagaac  aggaagaac  aggaagaac  aggaagaac
6601  gctggcgttt  ttccatagcc  tccgcccctc  tgacgagact  caaaaaaatc  caaaaaaatc  caaaaaaatc  caaaaaaatc  caaaaaaatc  caaaaaaatc  caaaaaaatc
6701  gcgtttcccc  ctggaagctc  cctcgtgccc  tctcctgttc  gcacctgcc  gcacctgcc  gcacctgcc  gcacctgcc  gcacctgcc  gcacctgcc  gcacctgcc
6801  ctcaatgctc  acgctgtagg  tatctcagtt  ggtatagact  gcttctctcc  gcttctctcc  gcttctctcc  gcttctctcc  gcttctctcc  gcttctctcc  gcttctctcc
6901  atccggtaac  atctcctctg  atctcactgc  atctcactgc  atctcactgc  atctcactgc  atctcactgc  atctcactgc  atctcactgc  atctcactgc  atctcactgc
7001  ggtgctcag  agttctgtaa  gtgggtgctc  aactacgctc  acactagaag  acactagaag  acactagaag  acactagaag  acactagaag  acactagaag  acactagaag
7101  gagttggtg  ctcttctgac  ggcacacaaa  ccaccgctg  tagcgtgtgt  tagcgtgtgt  tagcgtgtgt  tagcgtgtgt  tagcgtgtgt  tagcgtgtgt  tagcgtgtgt
7201  agatcctttg  atcttttcta  cggggtctga  cggggtctga  cggggtctga  cggggtctga  cggggtctga  cggggtctga  cggggtctga  cggggtctga  cggggtctga
7301  atccttttaa  attaaaaatg  aagttttaaa  tcaatctaaa  gtatatatga  gtatatatga  gtatatatga  gtatatatga  gtatatatga  gtatatatga  gtatatatga
7401  cagcagatct  tctattctgt  tcatctatg  tctctctgct  cccctctgct  cccctctgct  cccctctgct  cccctctgct  cccctctgct  cccctctgct  cccctctgct
7501  gatacccgca  gaccacgctc  caccgctccc  agatttatca  accataaacc  accataaacc  accataaacc  accataaacc  accataaacc  accataaacc  accataaacc
7601  tccatccagt  ctattaattg  ttgcccggaa  gctagagtaa  gtagttcgc  gtagttcgc  gtagttcgc  gtagttcgc  gtagttcgc  gtagttcgc  gtagttcgc

```

```

7701 cacgctcgtc gtttggtatg gottcattca gctccggttc ccaacgatca aggcgagtta catgatcccc catgttgtgc aaaaaagcgg ttagctcctt
7801 cggctcctccg atcgtttgtca gaagtaagtt ggccgcagtg ttatcaactca tggttatggc agcactgcat aattctctta ctgtcatgcc atccgtaaga
7901 tgctttttctg tgactggtga gtaactcaacc aagtcattct gagaatagtg tatgcggcga ccgagttgct cttgcccggc gtaatacgg gataatacgg
8001 cgccacatag cagaacttta aaagtgtctca tcattggaaa acgtttcttcg gggcgaaaaac tctcaaggat cttaccgctg ttgagatoca gttcogatga
8101 acccactcgt gcaccaact gatcttcagc atcttttact ttcaccagcg tttctggggtg agcaaaaaaca ggaaggcaaa atgccgcaaa aaaggggaata
8201 agggcgacac ggaaatgttg aatactcata ctcttctctt ttcaatatta ttgaagcatt tatcaggggtt attgtctcat gagcggatac atatttgaat
8301 gtatttagaa aaataaaca ataggggttc cgcgcacatt tcccggaaaa gtgccacctt acgtctaaga aaccattatt atcatgacat taacctataa
8401 aataggcgt atcacgaggc cctttcgtc

```

## > RDC3013 Translated Insert Sequence

```

1  mkampwnwtc llshlllvgm gsstllprqp pqlsqkpsfv tfrgepaegf nhlvvdertg hiylgavnri yklssdlkvl vthqtgpded npkcyppriv
101  qtcneplast nnvnkmlid ykenrliacg slyggickll rledlflklge pfhkkehyls gvnesgsvfg vivsysnfdd klfiatavdg kpeyftiss
201  rkltnsead gmfoyvfnde fvasmikips dtftvipdfd iyyvygfsng nfvyfltlqp emvsppgstt keqvytsklv rlcckedafn syvevpigce
301  rngveyrllq aaylksagav lgrtlgvrrp ddlflftvfvsk gqkrkmsld esalcifilk qindrikdrl qscyrgegt1 dlawlkvkd1 pcssalltid
401  dnfcgldmna plgvsemvrg ipvftedrdr mtsviaavyk nhslafvgtk sgklkkirvd gpkgnalqye tvqvvdsgpv lrdmafskdh eqlyimserq
501  ltrvpvescg qyrscgeclg sgdpbcgwcw lhntctrker cersreprf asemkqcvrl tvhpnnisvs qynvllvlet yvpelsagv nctfedlsem
601  dglvignqiq cyspaakevp riitengdhh vvqlqlkske tgmtfastsf vfyncsvhns clscvespyr chwckyrhvc thdpntcsfq egrvklpedc
701  pqllrvdkil vpvevikpit lkaknlppqg sqrgyecil niqqieqrvp alrfnsssvq cqntsysisyeg meinnlpvel tvvwnghfni dnpaqkvyl
801  ykcgamresc glclkadpdf ecgwcqspgq ctlrqhcapah esrwlelsga nskctnprit eiipvtgpre ggktvtirge nglefrdia shvkvagvec
901  splvdgyipa eqivcemgea kpsqhagfve icvavcrpef marssqlyyf mtltladlkp nrgpmsggtq vtitgtlna gsnvvmfgs qpclfhrsp
1001 syiicnttss eevldmkvtv qvdrarirqd lvfygyvedpt ivriepewsi vsngntpiavw gthldliqnp qirakhggke hinicevlna temtcqapal
1101 algpdhqsdl terpeefgfi ldnvqsl1il nktntfyyyn pvfeafpspg ilelkgtpi ilkgknlipp vaggvknly tvlvgekpct vtvsdvqllc
1201 espnligrhk vmarvggmey spgmvyiapd splslpaivs iavaggl1ii fivavliayk rksresd1tl krlqm1mdnl esrvalecke afaelqtdih
1301 eltsdldgag ipfldyrtyt mrvlfpqied hpvlrdleyp gyrqervekg lklfaqlinn kvfllsfirt lesqrsfsmr drgnvaslim tvlqskleya
1401 tdv1kqllad lidknleskn hpklllrrte svaekmltnw ftfllykflk ecageplfsl fcaikqqmek gpidaitea ryslsedkli rqqieyktlv
1501 lscvspdnvn spevpvkiln cdtitqvkek ildai1knvp cshrpkaadm dlewrqgsa rmlqdedit tkiendwkr1 ntvahyqvpd gsvvalvskq
1601 vtaynavnns tvsrtsasky enmiryrgsp ds1rsrtpmi tpdlesgvkl whlvknhehg dqkegdr1sk mvseiyltr1 latkgtlqkf vddl1fetifs
1701 tahrgsalpl aikymfdfld eqadkhgihd phvrhtwksn clplrfvwmn iknpqvf1di hknsitdacl svvaqtfm1s cstsehr1lgk d1spnkl1lya
1801 kdipsyknwv eryysd1gkm paisd1qmdna ylaeqsrmhm nefntmsals eifsvyvgkys eeilgpldhd dqcgkqklay kleqv1tlms lds

```