

## Specifications:

Gene:	mPlxnb3
Accession:	NP_062533.2
Insert size:	5722bp
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.

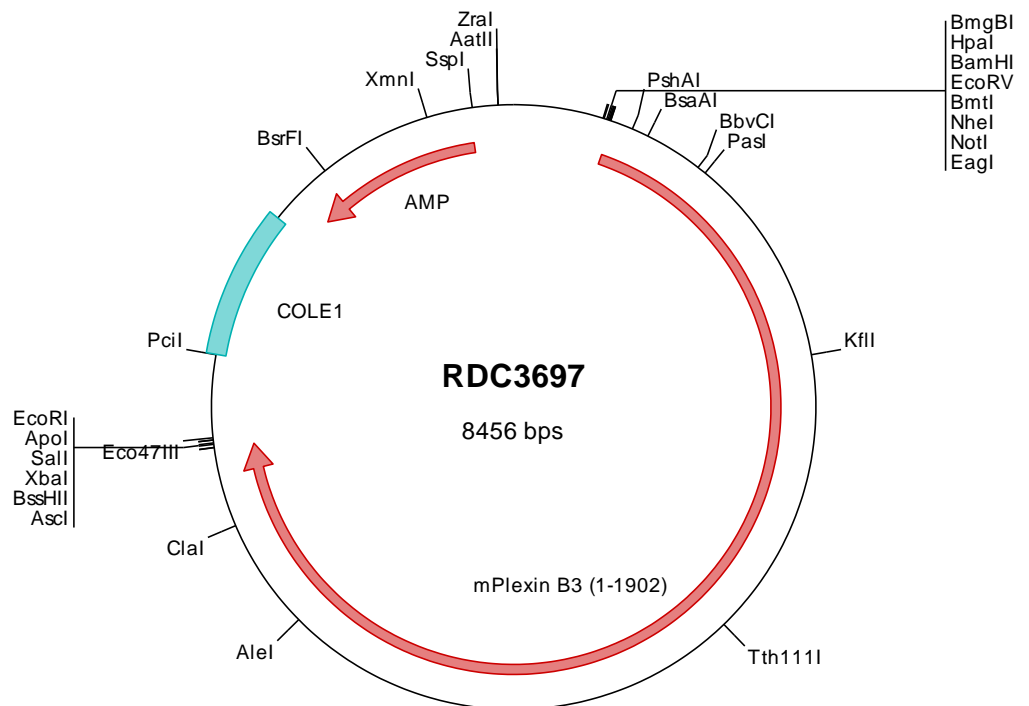
## mPlexin B3 cDNA Plasmid

**Plxnb3 plexin B3 [ *Mus musculus* (house mouse) ]**

**Also known as:** Plxn6;  
AI451018

### Summary:

Plexin B3 is a receptor for SEMA5A that plays a role in axon guidance, invasive growth and cell migration. It stimulates neurite outgrowth and mediates Ca<sup>2+</sup>/Mg<sup>2+</sup>-dependent cell aggregation. In glioma cells, SEMA5A stimulation of Plexin B3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDI A-mediated inactivation of RAC1.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC3697 Plasmid DNA Sequence

```

1      tcgcgcgctt  cggatgatgac  ggtgaaaac  totgacacat  gcagctccc  gagacggta  cagcttgct  gtaagcggat  gccgggagca  gacaagccc
101    tcagggcgcg  tcagcgggtg  ttggcgggt  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtg  accatatgcg  gtgtgaaata
201    ccgcacagat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgcatt  caggctcgc  aactgttgg  aagggcgatc  ggtgcgggcc  tcttcgcta
301    tacgcccagc  ggcgaaagg  ggatgtgct  caaggcgatt  aagttgggta  acgcccagg  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgatt
401    ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacc  atgtctga  acttctcca  ggctcctgtg  atggctccct  ggtctccct
501    cagcctccac  ctgctgtgc  tgttccctgc  ctgctgtct  ttgaccagg  tccaatcgt  ctctgtacca  aataccagct  tcaaccacct  ggtgtggca
601    ccagatcagg  gcaaacctta  cgtgggtgca  gtgaatcacc  totttcagc  cagccctgag  ctgaagatgg  agtctgtgg  tgtcactggc  cctgtcattg
701    acagctcga  ttgtgtgct  ttccgtgacc  tggctgagtg  cccacaggcc  cagctcactg  acaatgccc  ccagctcttg  ttggtgagca  gcaggacaca
801    ggaactgtgt  gcttgtgggc  aagtgaagca  ggggtgatgt  gagaagcgg  gccttgggga  tgtgactcaa  gtgtgtgacc  aggcgtgagga  cctcgtgat
901    gggcagtttg  tggctgccc  taacctggga  gtgaccacag  taggcctagt  ggtgccttg  ccaggccgag  acctcctgct  agtggccaga  ggcctggcag
1001   gcaagctgtc  agcaggatgt  ccaccctaa  ctgtgcgcca  ctgtgctggg  gctggctggg  tctccagtga  aggactggga  agactgtgtg  tcggtgactt
1101   ttcagactac  aacaatagct  atgtaggagc  tttttctgat  gctcacctg  gctcacctg  ctactctgt  cgtggggctc  gggcccagac  tgagtaatgc
1201   tctatgttag  cactgtgtct  cctcagagat  gtcoaacttt  atctcatgt  gaaatgcca  ctctacctg  atggccaggg  ccttaaccag  gctgcctcc
1301   ttactocaga  ctcttctgta  cagcaggcac  cagcaggcac  aagtcaagg  cagcggccct  tgtgtgcttt  tcccttagct  gactctgaga  tcggtgactg
1401   acaagccagg  cgactttgct  atactactgg  tggtaagggt  cctagcgcca  tggaaagaac  cactgtggag  taagggtcoa  catcccgttg  cgtcaacttg
1501   cctcctgact  ccccgagtc  ataaccctgt  ggtgatgaa  acaccccag  ccccatcgca  ggccgccaac  ccttggaggc  ccagcctctg  ttgcaactgg
1601   gacagtcact  cagtgacagt  gctgctctcc  agacagatg  agcacagta  gccacagata  cagctctctg  gagacaacca  aggcagcta  ctaaggtct
1701   ctcccagtc  caggtatacc  attcccagca  agtggggccc  ccaggctcag  ccactcagtc  agatctgtg  gtagacagca  atggagacca  ccttatgtc
1801   ttactgtccc  agcaggtaga  ccgtaactt  ctgctactt  gctcctcagt  tcccaactg  actacctgt  tocaggccag  ggaccacta  tctgtgtgt
1901   gcaatctca  agggatgtgt  actogagag  gcgagtgtgt  acgggacgcc  acgcaaaccc  actggctgtg  gagctacgaa  gacaaccact  gcccttacct
2001   ccagagctgc  ctaccagccc  aacaccccc  tcaggaaacg  ggtcagatca  aaccccaga  tctctggctg  cccaccctgg  ccatggatag  ataactccac
2101   tgtgcttttg  gggctacaca  cagcttagct  cagcttagct  aagcttagct  aagcttagct  aagcttagct  aagcttagct  aagcttagct  aagcttagct
2201   cagatcactg  ccccttccc  ctggctcact  ctggctcact  ctggctcact  ctggctcact  ctggctcact  ctggctcact  ctggctcact  ctggctcact
2301   agtggctgcc  cctgcccggc  ctgtgtgtag  cagctctgtg  cgttcccact  cgttcccact  cgttcccact  cgttcccact  cgttcccact  cgttcccact
2401   gaaaagcttg  tctaacagtc  ccaggagtg  gacatcctg  taactctct  taactctct  taactctct  taactctct  taactctct  taactctct
2501   tgggttggga  gagcactgtg  accctgcaca  ttcagaacct  taactctct  taactctct  taactctct  taactctct  taactctct  taactctct
2601   gcaaaagcta  cctgctcct  tagaggagac  atccagggag  tccagggag  tccagggag  tccagggag  tccagggag  tccagggag  tccagggag
2701   ccagtgccca  tctatgtaac  caggggtgag  atccagggag  tccagggag  tccagggag  tccagggag  tccagggag  tccagggag  tccagggag
2801   gcagccactg  ccaggccggc  aatgggagcc  tgagctgttt  gttgtgtgt  gttgtgtgt  gttgtgtgt  gttgtgtgt  gttgtgtgt  gttgtgtgt
2901   ggaaacagta  tgccctatac  ccagactgga  ctgactgta  cccctgactg  cccctgactg  cccctgactg  cccctgactg  cccctgactg  cccctgactg
3001   caggtcctta  atgatgtgag  aaatgtgta  actgtgtgta  ccagccactg  ccagccactg  ccagccactg  ccagccactg  ccagccactg  ccagccactg
3101   catctcctgc  tcccactggc  actgctgggc  cagctccaag  ggccataaag  agtctctct  agtctctct  agtctctct  agtctctct  agtctctct
3201   cctgctgagc  ctgaaactcc  atgtggggcc  ccaggcaggg  ggcacccagc  taccactcca  taccactcca  taccactcca  taccactcca  taccactcca
3301   gctgggtgac  aaccttggcc  tatccaggag  cctgtgtgtc  tccaaagccc  cctgtgtgtc  cctgtgtgtc  cctgtgtgtc  cctgtgtgtc  cctgtgtgtc
3401   tagtcttttg  gcatgtttaa  cgcacaactg  tcaccacccc  tttttogata  acagccaact  cccaactggt  ggaagcagag  cctagtgtca  gcttccgggg
3501   aggtggacga  gtagcttagg  tcaggggtag  aggtcttaga  gttgtgtggt  gttgtgtggt  gttgtgtggt  gttgtgtggt  gttgtgtggt  gttgtgtggt
3601   ggggttcagg  ccaggatgac  gaaccaagg  aggagctgtg  gtcgctctg  gtcgctctg  gtcgctctg  gtcgctctg  gtcgctctg  gtcgctctg
3701   ccacgctctg  ctctgtcaac  tcatccagcc  tctcctgtg  ccacagtc  gcagtgccc  atggggcct  cccaaagcga  gtcttctttg  ccttagacaa
3801   catgcaagta  gactttggca  gtgcttagtg  gggccaggga  ttctctatac  agcttaaac  agcttaaac  agcttaaac  agcttaaac  agcttaaac
3901   taaccaactc  agccaggcca  tgtcctagat  gttggaggcg  agggctccaa  agggctccaa  agggctccaa  agggctccaa  agggctccaa  agggctccaa
4001   gctgtgtgaa  gacactgacg  ctactcaact  tgtactgtga  gccaccacc  caagcccctc  aaccaccaa  tgggtcaggc  accctgccc  agt'ttgggt
4101   gcagatgggc  aacctgcgcc  tggctctagg  cctctcagc  cctctcagc  cctctcagc  cctctcagc  cctctcagc  cctctcagc  cctctcagc
4201   ggtgctccgc  tgetgatgct  tgccgtgctc  ctctcagcc  ctctcagcc  ctctcagcc  ctctcagcc  ctctcagcc  ctctcagcc  ctctcagcc
4301   tggagaacct  ggagactggt  gttgggtgac  agtgccgcaa  ggagttcaca  gacttgatga  ctgagatgac  agacctca  agtgaacct  aggcagtg
4401   gattcctctc  ctgactgacc  gaacatagc  tgagcgtgcc  tctctcccgc  gcaatgtgg  ctgcccactg  cagccagggc  tccaggggtc  tggggaagag
4501   ggtgctgacc  tcaccgtgag  ccagggtgct  ccagggtgct  ccagggtgct  ccagggtgct  ccagggtgct  ccagggtgct  ccagggtgct  ccagggtgct
4601   caagcttctc  ccaggggac  cgtgcccag  tggctcaact  aottcctct  gctctgaca  gcaagcttga  gtattgacc  gacatcatga  gaactctgct
4701   tggtagacata  gccgccact  atgtacaca  gaaccccag  ctactgttac  gcagcagga  gaccttgta  gagaagctgc  gaccacact  gctctctctc
4801   tgtctcctca  cctctctgaa  ggaagtggct  gttgactgac  gttgactgac  gttgactgac  gttgactgac  gttgactgac  gttgactgac  gttgactgac
4901   caggcaaggc  aaaaogaact  ctgaatgaca  gccacctgt  aogagaggt  gtggagtcc  agcccgtgac  cctgatgga  cttggtggac  cagaggtga
5001   tagggcagca  gggacaagtg  gagtgcactg  agtgccagcc  aggtgctgt  tagatctga  gttggcctca  atgagcagc  gttgagcagc  ccaaaatcac
5101   aagggaaacc  cctctcccca  gggccttcca  gttgactccc  taacacctat  aacacctat  aacacctat  aacacctat  aacacctat  aacacctat
5201   cctctgtgac  taaaaccacc  tggagagac  tcaaacctct  acaaacctat  acaaacctat  acaaacctat  acaaacctat  acaaacctat  acaaacctat
5301   tggcaactgt  tcccagagtc  tggccagac  tggctgccc  totggagaga  acaactccat  cgtggaagat  ggtggaagag  ggtggaagag  ggtggaagag
5401   ctggtaaagg  ccaactgagga  ggcagaagg  ggcagaagg  ggcagaagg  ggcagaagg  ggcagaagg  ggcagaagg  ggcagaagg  ggcagaagg
5501   tctatcttac  tgccttaact  tcaatgaagg  gaccctgca  gaagtgtgt  gatgacaact  tccaggccat  tcttagcatg  aatcggctg  tgctatttg
5601   tgtaagtac  ctatttgact  tcttgatga  gctggcagag  aaacaatgca  tgaagatcc  agagacctg  cacatttgg  agacaaacag  agcagcttg
5701   cgattctggg  tgaatgtctt  caagaacct  cagctcaact  caagaacct  caagaacct  caagaacct  caagaacct  caagaacct  caagaacct
5801   togattctcg  catggtctcg  gagcataaag  tggcccgga  ttcccagtg  taagactcag  tctatgccc  ggagatccc  cgtacaagc  agatggtgga
5901   gaagtactat  gcggacattc  gccagagct  tccagcaag  taacaagaga  tgaactcag  tctggtgaa  ctctctggga  attatctcc  tgctcccac
6001   tgcctggagg  ctcttgaga  actttacaac  ggtattatga  ggtattatga  ggtattatga  ggtattatga  ggtattatga  ggtattatga  ggtattatga
6101   tggcttggcg  cctgcagcag  gtgctgccc  tgggtgaaat  caaagtgaat  gactgtaaa  gggcgccag  gggcgccag  gggcgccag  gggcgccag
6201   ctcagagcgt  cgtctctgac  ttggcgtaat  catggtcata  gctgttctc  gctgttctc  gctgttctc  gctgttctc  gctgttctc  gctgttctc
6301   cataaagtgt  aaagcctggg  atgtgactaa  agtgaactaa  tctcgttgg  tctcgttgg  tctcgttgg  tctcgttgg  tctcgttgg  tctcgttgg
6401   ctgcattaat  gaatcggcca  acgcccggg  agaggcgtt  tgcgtattg  tgcgtattg  tgcgtattg  tgcgtattg  tgcgtattg  tgcgtattg
6501   tggcggcagc  ggtatcagct  cactcaagg  cggtaatac  ggtatcaca  gaatcaggg  ataacgagg  aaagaacatg  tgagcaaaa  gccagcaaaa
6601   gcccagaaac  cgtaaaaagg  ccctcttctc  gctatgctcc  ctatgctcc  cagcccctg  cagcccctg  cagcccctg  cagcccctg  cagcccctg
6701   aaccgcagc  gactataaag  ataccaggc  ggccttctc  ttccccctg  ctgtgctct  ctgtgctct  ctgtgctct  ctgtgctct  ctgtgctct
6801   ttctccctc  gggaaagcgt  gcgcttctc  aatgctcag  ctgtaggtt  ctcagttct  ctcagttct  ctcagttct  ctcagttct  ctcagttct
6901   ccccgctcag  cccagcctg  gcgcttctc  cgttaactat  cgtcttact  cgtcttact  cgtcttact  cgtcttact  cgtcttact  cgtcttact
7001   aggattagca  gagcaggtg  tbtaggcgt  gctacaaggt  tcttgaagtg  tcttgaagtg  tcttgaagtg  tcttgaagtg  tcttgaagtg  tcttgaagtg
7101   tgctgaagcc  agttactctt  ggaaaaagag  tttgatgtct  ttgatctcc  ttgatctcc  ttgatctcc  ttgatctcc  ttgatctcc  ttgatctcc
7201   tacygcagca  aaaaaaggat  ctcaagaaga  tctttgctc  tttctcagc  tttctcagc  tttctcagc  tttctcagc  tttctcagc  tttctcagc
7301   agattataca  aaaggatctt  cactagatc  cttttaaatt  aaaaatgaag  aaaaatgaag  aaaaatgaag  aaaaatgaag  aaaaatgaag  aaaaatgaag
7401   aatgcttaat  cagtgaggca  cctactctag  cgtactgtct  atctctgct  atctctgct  atctctgct  atctctgct  atctctgct  atctctgct
7501   cttaccatct  gcccccagtg  ctgcaatgat  acocgcagac  accocgcag  accocgcag  accocgcag  accocgcag  accocgcag  accocgcag
7601   agaagtggtc  ctgcaacttt  atccgctcc  atccgctca  ttaattgtt  ttaattgtt  ttaattgtt  ttaattgtt  ttaattgtt  ttaattgtt
7701   ttgcatgac  tacaggcatt  gttggtctc  gctcgtctt  ttgttaggt  ttgttaggt  ttgttaggt  ttgttaggt  ttgttaggt  ttgttaggt
7801   gttgtgcaaa  aaagcggtta  gctctctg  gttctctg  gttctctg  gttctctg  gttctctg  gttctctg  gttctctg  gttctctg
7901   tctcttactg  tcatgcaatc  cgtaaatgc  ttttctgta  ctggtgagta  ctcaaccaag  tcaattctgag  aatagtgtat  gggcgccagc  agt'tgctctt

```

```

8001 gcccgccgctc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatcct
8101 accgctgttg agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcctc ttttactttc accagcgttt ctgggtgagc aaaaacagga
8201 aggcataaatg ccgcaaaaaa ggaataaagg cgcacacgga aatgttgaat actcactact ttcctttttc aatattattg aagcatttat cagggttatt
8301 gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttcctc gcacatttcc cggaaaagtg ccactgacg tctaagaaac
8401 cattattatc atgacattaa cctataaaaa taggcgtatc acgagccctc ttcgct

```

> RDC3697 Translated Insert Sequence

```

1 mltdflqapv mapwspflsh llllflpllp ltrvhrfsvp ntsfnhlvla pdqgklyvga vnhlfqlspe lkmesvavtg pvidspdcvp frdlaecpqa
101 qltdnanqll lvssrtqelv acgqvkggvc ekrrlrgdvtq vlyqaedpgd gqfvaantlg vttvglvvp1 pgrdl11var glagklsagv pp1tvrqlag
201 pqpfsseg1g rlvvgdfdsy nnsyvgafsd ahsayfvfrr rgaraqtayr syvarvclrd vnlysyvemp ltchggqliq aaf1tpdt11 gaf1sag1tsqa
301 qaalcafp1a dldrsmear r1cyttggqg psgmeeatve ygvtsrcvtl p1d1spesypc gdehtpspia grqpleaqpl lqlgqsisav aalqtdghti
401 aflgdtggql hkvflnsshg qvyhsqqvgp pgsaispd1l vdsngdhlyv ltaqqvdri1 vaacpqfpnc ttclqardpl cgwci1lgrc trrgecg1raa
501 qpnhlw1sy dhncpyiqsl lpaghrprqeq gqi1lsvprl ptlamdeyfh cafggynsla qveephvct tppq1dqmppn ppgsdhvt1p lalmfedv1l
601 tattfsfydc savqalevaa pcracvss1w rchwcpcqssh ciygehcepeg ekavysagev dilvrgpeac pqveglaspq lvpvgweshv th1h1qnlhyf
701 qglpalyhcw lelpqklqkl pasleetsrd sgl1hcqaqq fy1psmsqwel pvpiyvtrge iqrl1dnagdl hvtlydcamg hpdcshc1qaa ng1sl1sc1wcg
801 dqgpacrygp lcp1pgaveql cpipsidvie pltgpp1eggl aitilgsnl1g qafndvrnav tvagqpcnpd pslyrisari vcvtspapng tagpvqvaik
901 srppg1stqn ftyqdpv1ls lnpqwgppag gtq1tihqy lqtgg1nisvf vgdqpcpiqe pvcpeaiich tmpqte1pgea vvlivfghve rkl1t1tpfry
1001 tanpqlveae psvsfrg1ggr virvrgt1gd vvwqpl1svw ledepk1kal gvqaqdanpr rscgapaadp qacih1esgl lqcst1lcsvn sss1ll1chsp
1101 avpdgalpkr vffaldnmq1v dfasasggqg flyqpnpr1a plshegithp yhlkpg1hvd vegegl1ngi skeevqvhig dgeclvkt1t lthlyceppp
1201 qapqptngsg tlpqf1v1mqm nlr1lalgpvq yeaesmm1stf pveaq1glgm gaavliaav1 l1tlmyrhks kkalr1dyqkv lvqlen1etg vgdqcrkeft
1301 dlmtemt1dt sdleasg1pf ldyrtaera ffpg1hvgcpl qpglegl1gee grsvt1vrqgl tqlsn1lnsk lfl1t1lihtl eegps1fsqrd rchvas1l1sl
1401 alhskley1t dimrt1l1gd1 aahyv1hkn1pk lmlrr1tetmv ek1l1tnw1si clytfl1keva geplym1fra ikyqvd1k1gpv davt1g1k1krt lndsh1l1red
1501 vefqpl1t1ma lvgpead1raa gns1gvhrvpa rvl1dt1ditq vkekv1dqiy kgt1p1fsqrps vhs1dle1wrs glaght1l1sd ed1tsv1tqnh wkr1nt1lqhy
1601 kvpdgatv1l ipqvhng1tv sqslg1qtgcp sgentp1mled geeggv1rlwh lvkateeaeg akvrr1s1lrd r1r1er1sraka ipeiy1l1trll smkgt1l1qkfv
1701 ddtfqa1ism nrpvp1iavky lfdfl1delae khgied1petl hiwkt1ns1ll rf1wv1n1knp qlifdv1qvsd nedail1avia qt1fid1sc1mvs ehk1vgr1dspv
1801 nkll1yareip rykqm1vekyy adirq1sspas yqemnsalae lsgny1ssaph cleal1relyn hihryy1dqii saleed1pvaq kmqlac1rlqg vaalveykvt
1901 dl

```