

Specifications:

Gene:	rP2rx3
Accession:	AAH81783
Insert size:	1201bp
Concentration:	10µg at 0.2µg/µL

**rP2X3/P2RX3 cDNA
Plasmid**

P2rx3 purinergic receptor P2X 3
[*Rattus norvegicus* (Norway rat)]

Summary:

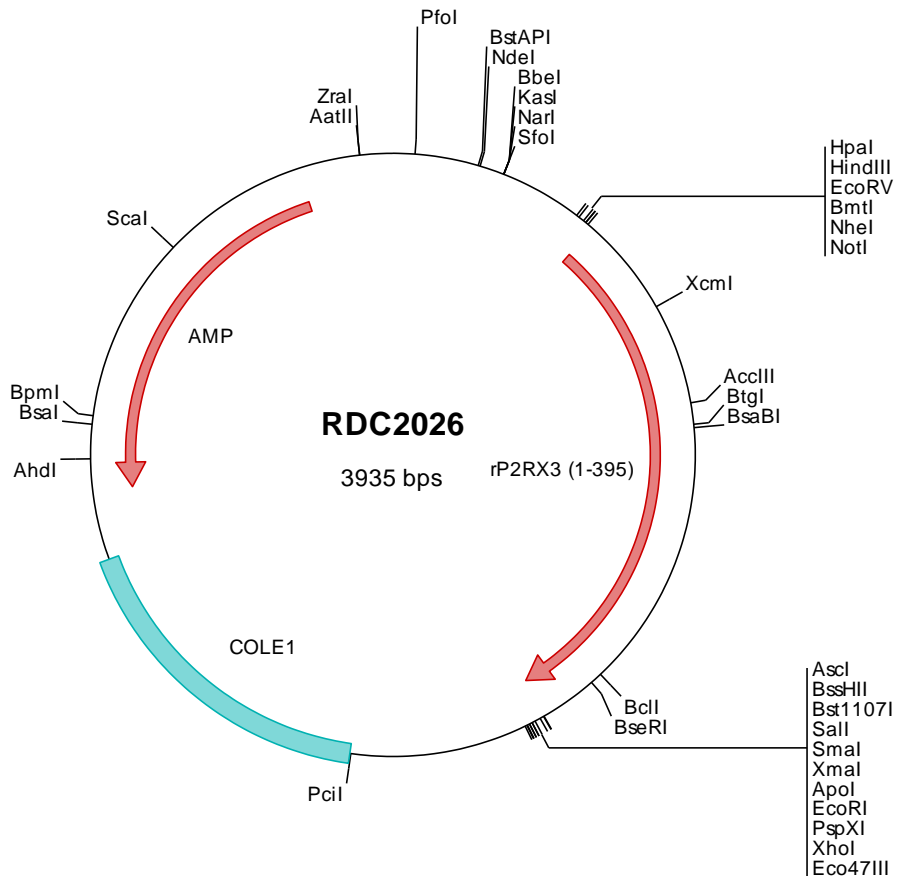
P2RX3 functions as a ligand-gated ion channel and may transduce ATP-evoked nociceptor activation. Studies suggest that P2RX3 is important for peripheral pain responses. It participates in pathways controlling urinary bladder volume reflexes. Selective antagonists may have a therapeutic potential in pain relief and in the treatment of disorders of urine storage.

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.



> RDC2026 Plasmid DNA Sequence

```

1   tcgctgctgtt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggcgcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttaaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcg  attgccatt   caggctcgcg  aactgttggg  aagggcgatc  ggtcggggcc  tcttcgctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  caagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccggccacc  atgaaactgta  taccagaactt  cttoacctac  gagactacca  agtcgggtgt
501  tgtgaagagc  tggaccattg  ggatcatcaa  ccgagccgctc  cagctgtgta  ttatctccta  ctttggggg  tgggttttt  tgcgatgaaa  ggctaccaca
601  gtgaggggaca  ccgccattga  gtccctcagta  gttacaagg  tgaagggtt  cggggcgtat  gccaacagag  tcattggacgt  gtcggattat  gtgacccca
701  cccagggcac  ctctgtcttt  gtcatcatca  ccaaaatgat  cgttactgaa  aatcaaatgc  aaggattctg  tccagagaa  gaagagaagt  accgctgtgt
801  gtctgacagc  cagtgtgggc  ctgaacgctt  cccagggatc  ctcaaccggcc  gctgcgtgaa  ctacagctct  gttctccgga  cctgtgagat  ccagggtctg
901  tgccccactg  aggtggacac  cgtggagatg  cctatcatga  tggaggctga  gaacttcaac  attttcatca  agaacagcat  ccgtttccct  ctcttcaact
1001  ttgagaagcg  aaaacctca  ccgacaagga  cataaagg  tggcgtctc  accctgaaaa  ggccccattt  tgccccatct  tgagggtagg  agacaaggcc
1101  ggatgtggtt  aagtttctg  gacaggattt  tgccaagctg  gcccgccagg  gtggcgttct  gggatattaag  atcggctggg  tgtgcatct  agacaaggcc
1201  tgggaocagt  gcatocctaa  atattccttc  actcggctgg  atggagtctc  tgagaaaagg  agtgtttccc  ctggctacaa  cttcaggttt  gccaaatact
1301  ataagcagga  gaacggcagc  gagtaaccga  cactcctgaa  ggcctttggc  atcgcgttgg  atgtgctggt  atatgggaac  gctggcaagt  tcaacatcat
1401  ccccaccatt  atcagctcgg  tggcggcctt  cactctctgt  ggagtgggca  ctgtctctgt  tgacatcctc  ctgctcaatt  tcttcaaaag  ggctgatcac
1501  tacaaagcca  ggaagtttga  ggaggtgact  gagacaacac  tgaagggtac  tgcgtcaacc  aaccagtg  tgcagcagcc  ccaggccaat  gtggagaagc
1601  agtctacaga  ctccagggcc  tattctattg  gtcaactaaag  gcgcgccagt  atactctaga  gtcgacaccc  ggggaattcc  tcgagcgtc  gtctctagct
1701  tggcgtaatc  atggtcatag  ctgtttcctg  tgtgaaattg  ttatccgctc  acaattccac  acaacatacg  agccggaagc  ataaagtgt  aagcctgggg
1801  tgcctaata  gtgagctaac  tcacatlaat  tgcgttgccg  tcaactgccc  ctttccagtc  gggaaacctg  tcgtgccagc  tgcattaatg  aatcgcccaa
1901  cgcgcgggga  gagcctgttt  cgtatattgg  cgtctctccg  ctctcctcgt  cactgactcg  cctgctcgg  tcgttcggct  gccgcgagcg  gtatcagctc
2001  actcaaaagg  ggtaatagcg  ttatccacag  aatcagggga  taacgcagga  aagaacatgt  gagcaaaaag  ccagcaaaa  gccaggaacc  gtaaaaaggc
2101  cgcgttctg  gcggtttttc  ataggtctcg  cccccctgac  gagcatcaaa  aaaatcgagc  ctcaagtcag  aggtggcgaa  acccgacagc  actataaaga
2201  taccagcgct  ttccccctgg  aagctccctc  gtgcgctctc  ctgtttccgac  cctgcgcctt  accggatacc  tgcctccctt  tctcccttcg  ggaagcgtgg
2301  cgctttctca  atgctcagcg  tgtaggtatc  tcagttcgg  gttaggtcgt  cgtctcaagc  tgggctgtgt  gcacgaaacc  cccgttcagc  ccgagcgtg
2401  cgccttacc  ggtaaactac  ctcttgagtc  caaccggta  agacaagact  tatcccaact  ggcagcagcc  actggttaaca  ggtatagcag  agcaggtat
2501  ctaggcgggt  ctacagagtt  ctggaagtgg  tggcctaact  acggctacac  tagaaggaca  gtatttggt  tctgcgctct  ggtaaagcca  gttacctctg
2601  gaaaaagagt  tggtagctct  tgatccggca  aacaaaccac  cgctggtagc  ggtggttttt  ttgtttgcaa  gcagcagatt  acgcgcagaa  aaaaaggatc
2701  tcaagaagat  cctttgatct  tttctacggg  gcttgacgct  cagtggaaag  aaaactcacg  ttaaggatt  ttggtcatga  gattatcaaa  aggatcttc
2801  acctagatcc  ttttaaat  aaaatgaagt  ttttaataca  tctaaagtat  atagtagtaa  acttggctgt  acagttacca  atgcttaatc  agtgaggcac
2901  ctatctcagc  gatctgcta  tttogttcat  ccatagttgc  ctgactcccc  gtctgtgtag  taactacgat  acgggagggc  ttaccatctg  gccccagctg
3001  tgcaatgata  ccgcgagacc  cacgctcacc  ggcctcagat  ttatcagcaa  taaaccagcc  agccggaag  gccgagcga  gaagtgtctc  tgcaacttta
3101  tccgcctcca  tccagctctat  taattgttgc  cgggaagcta  gagtaagtag  ttccgagtt  aatagtttgc  gcaacgttgt  tgccattgct  acaggcatcg
3201  ttggtgacg  ctctcgtttt  ggtatggctt  cattcagctc  cggttcccaa  cgtatcaggg  gatgtacatg  atccccatg  ttgtgcaaaa  aagcggttag
3301  ctctctcgt  cctccgatcg  ttgtcagaag  taagttggcc  gcagtggtat  cactcaggt  tatggcagca  ctgcaataat  ctcttactgt  catgcatcc
3401  gtaagatgct  tttctgtgac  tggtagtagc  tcaaccaagt  cattctgaga  atagtgtagt  cggcgaccga  gttgctctt  cccggcgtca  atacgggata
3501  ataccgcgcc  acatagcaga  actttaaaag  tgctcatcat  tggaaaacgt  tcttcggggc  gaaaactctc  aaggatctta  ccgctgttga  gatccagttc
3601  gatgtaacc  actcgtgcac  ccaactgac  ttoagcatct  tttactttca  ccagcgtttc  tgggtgagca  aaaacaggaa  ggcaaaatgc  cgcaaaaag
3701  ggaataagg  cgacacggaa  atgttgaata  ctcatactct  tctttttca  atattattga  agcatttatc  agggttattg  tctcatgagc  ggatacatat
3801  ttgaatgat  ttgaaaaaat  aacaaaatag  gggttccg  cacatttccc  cgaaaagtgc  cacctgacgt  ctaagaaacc  attattatca  tgacattaac
3901  ctataaaaat  aggcgatca  cgagccctt  tcgtc

```

> RDC2026 Translated Insert Sequence

```

1   mncisdffty  ettksvvvs  wtigiinrav  qlliisyfvg  wvflhekayq  vrtdaiessv  vtkvkfgfry  anrvmdvsdy  vtppqgtsvf  viitkmivte
101  nmqgfcopen  eekyrcvds  qcqperfpqi  ltgrcvnyss  vrtceiqgw  cptevdvtem  pimmaenft  ifiknsirfp  lfnfekgnll  plntdkdikr
201  crfhpekafp  cpilrvgdv  kfagqdfakl  artggvlgik  igwvcdlka  wdqcpkysf  trldgvseks  svspgynfrf  akyykmengs  eyrtllkafg
301  irfdvlvygn  agkfniipti  issvaaftsv  gvgtvlcdii  llfnlkgadh  ykarkfeevt  ettlkgstast  npvfasdqat  vekqstdsga  ysigh

```