

Specifications:

Gene:	<i>hGPC2</i>
Accession:	NP_689955
Insert size:	1753bp
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

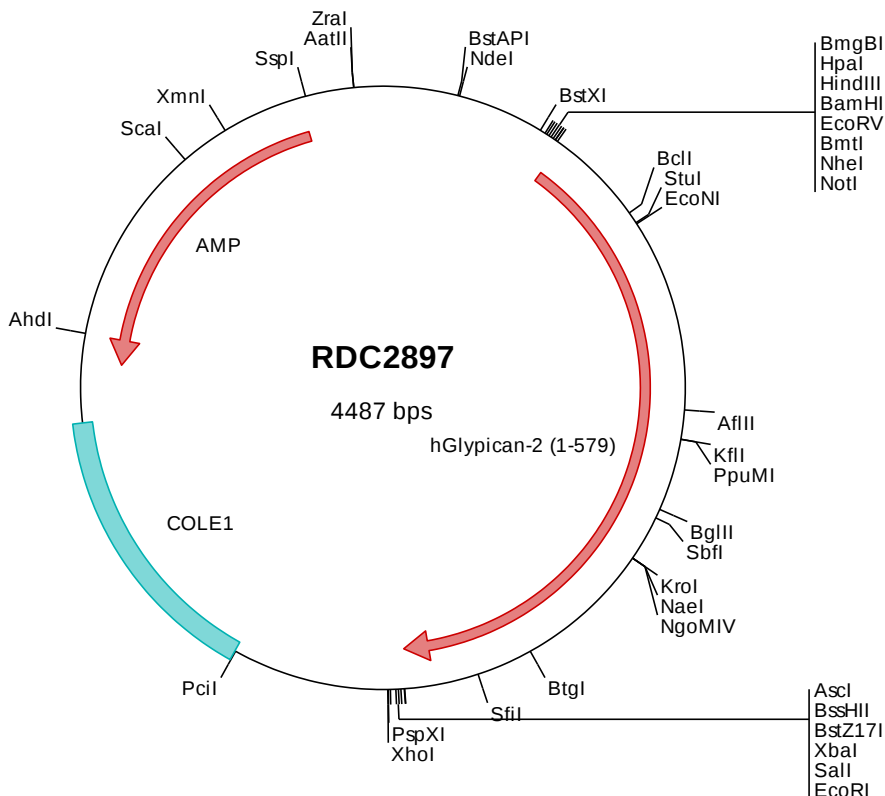
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

hGlypican 2 cDNA Plasmid

GPC2 glypican 2 [*Homo sapiens* (human)]

Summary:

Glypican 2 belongs to the glypican family which are heparan sulfate proteoglycans that attach to the cell surface by a glycosylphosphatidylinositol (GPI) anchor. All glypican core proteins contain an N-terminal signal peptide, a large globular cysteine-rich domain (CRD) with 14 invariant cysteine residues, a stalk-like region containing the heparan sulfate attachment sites, and a C-terminal GPI attachment site. Glypican 2 is primarily expressed in developing neuronal tissues including the brain, spinal cord, dorsal root ganglia, and cranial nerves.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2897 Plasmid DNA Sequence

```

1  tcgcgcggtt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacgggtc  cagcttgctc  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggt  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggaatgtctg  caaggcgatt  aagttgggta  agcccgaggt  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaaat
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacc  atgtccgcgc  tgcgacctct  cctgcttctg  ctgctgcctc  tgtgtcccg
501  tccctggtccc  ggaccgcgga  gcgaggcaca  ggtcaaccgg  agttgtgcag  agaccgcgca  ggtgtcgggg  gcccggggat  atagcttaaa  cctaataccct
601  cccgcctcga  tctcaggtga  gcacctcccg  gtctgtcccc  aggagtacac  ctgctgttcc  agtgagacag  agcagaggct  gatcaggagg  actgaggcca
701  ccttcocagg  cctgggtggg  gacagcggtc  cctttctggg  tcacacactg  gctgccaggg  acagaaaatt  tgatgagttt  tttctggaga  tgctctcagt
801  agcccgacac  tctctgaccc  agctctctct  ccaactctac  ggccgcctgt  atgccacgca  cgcctccta  ttcaatggcc  tgttctctcg  gctgcgagac
901  ttctatgggg  aatctggtga  ggggttggtg  gacacctgg  cggatttctg  ggcacagctc  ctggagagag  tgttcccgct  gctgcaccca  cagtacagct
1001  tctccctcga  ctacagctgc  gacgggtcac  gcttggcctc  atctaccgat  ggctctctgc  agccctttgg  ggactcacc  cgcgcctcc  gctgcagat
1101  aacccggacc  ctggttgctg  cccgagcctt  tgtcaggggc  ctggagactg  gaagaaatgt  ggtcagcgaa  gcgcttaagg  tgcgggtgtc  tgaaggtctg
1201  agccaggtct  tgatgcgtct  catcggtgt  cccctgtgct  ggggggtccc  ctcaattatg  ccctgccagg  gcttctgctc  caacgtgggt  cgtggtgttc
1301  tcagcagcag  gggactggag  ctgactggg  gcaactatct  ggtatggtct  ctgactctgg  ctgataagct  ccaggggccc  ttttcccttg  agctgacggc
1401  cgagtccatt  ggggtgaaga  tctcggagg  tttgatgtac  ctgcaggaaa  acagtgcgaa  ggtgtccgcc  caggtgttct  aggaagtgcg  cccccccgac
1501  ccggtgctcg  cccgcaccc  tcgagccccc  ccgccccggg  aagaggcggg  ccggtgtggt  togatggtga  ccgaggagga  gccggccacg  acggcccgca
1601  gcaccaacat  gcacccgctg  gtgtgggagc  tcgcccggcg  atgcggggct  atgcggggct  tctgggccc  gctgtcccgt  acggtgtgcg  gagactctcg
1701  catggcagcg  gacgctctgc  tggaggcggc  gccctgctgg  accggagcgg  ggccggggcg  gtaactgcgc  ccagtgttgc  ggggctcccc  gcccgagcag
1801  gtcaacaacc  ccagctcaca  ggtggacgcc  tcggggccc  atgtcccgac  ggcctctgag  accggcgcg  tcggggcggc  cagggccaga  atgaaaacgg
1901  ccgcactcgt  acacgctcgt  gacgggcagg  acggcgacga  ggtatggatg  ggtctgtggg  ggggacagca  gtaatggatg  gactggatgg  ctggggcgtg
2001  ggctccccca  gcccggcctc  ctccggcctc  ataccctctc  agaaggatg  gttctgtggg  caaaggagga  ggtggcagtg  cccgctacaa  ccaggggcgg
2101  agcaggagtg  ggggggcatc  tattgtttt  cacacccaaa  ccatctcat  tctctccctc  tcagccctgg  cctgcttgg  acctcgataa  aggcgcgcga
2201  gtatactcta  gactgcacac  ccggggaatt  cctcgagcgc  tcgtctctag  cttggcgtaa  tcatggtcat  agctgtttcc  tgtgtgaaat  tgttatccgc
2301  tcacaattcc  acacaacata  cgagccggaa  gcataaagt  taaagcctgg  ggtgccta  gagtgagcta  actcacatta  attgctgtgc  gctcactgcc
2401  cgctttccag  tcgggaacac  tgtcgtgcca  gctgcattaa  tgaatcgcc  aacgcgcgg  gagaggcggt  ttgctgattg  ggcgctcttc  cgttctctcg
2501  ctactgact  cgctgcgctc  ggtcgttccg  ctgcggcgag  cggatcagg  tcactcaaa  gcggtataac  gggtatccac  ggaatcaggg  gataacgcag
2601  gaagaacat  gtgagcaaaa  agcccgagaa  cgcgtaaaa  gcgcgcttgc  tggcgtttt  ccataggctc  cgccccctg  acgagcatca
2701  caaaaactga  cgctcaagtc  agaggtggcg  aaacccgaca  ggaactataa  gataaccagg  gtttccccct  ggaagctccc  tctgctgctc  tctgttccg
2801  accctgcgcg  ttaccggata  cctgtccgcc  tttctccctc  cgggaagcgt  ggccgtttct  caatgctcac  caatgagta  tctcagttcg  gtgtaggtcg
2901  ttgcctccaa  gctgggctgt  gtgcacgaac  ccccgcttca  gcccgacgcg  tcgctcttat  ccggtaaacta  tcgtcttgag  tccaaccgg  taagacagca
3001  cttatcgcca  ctggcagcag  ccaactgtaa  agagcaggt  atgtaggcgg  tgctacagag  ttcttgaaat  tcttgtaa  ggtggcctaa  ctacgctac
3101  actagaagga  cagtatttgg  tatctgcgt  ctgctgaagc  cagttaccct  cggaaaaaga  gttggtagct  cttgatccgg  caaacaacc  accgctggta
3201  gcggtggttt  ttttgtttgc  aagcagcaga  ttacgcgcag  aaaaaaagg  tctcaagaag  atcccttgat  cttttctacg  ggggtctgag  ctcagtgtaa
3301  cgaaaactca  cgtaaaggga  ttttggctat  gagattatca  aaaaggatct  tcacctagat  ccttttaaat  taataatgaa  gttttaaat  aatctaaagt
3401  atatatgagt  aaacttggtc  tgacagttac  caatgcttaa  tcagttaggc  acctatctca  gcgatctgtc  tatttcgttc  atccatagtt  gcctgactcc
3501  ccgtcgtgta  gataactacg  ataccggagg  gcttaccatc  tggcccgagt  gctgcaatga  taccgcgaga  cccacgctca  ccggtccag  atttatcagc
3601  aataaaccag  ccagccggaa  gggccgagcg  cagaagtgg  cctgcaactt  tatccgcctc  catccagctc  attaattgtt  gccgggaagc  tagagtaagt
3701  agttccgacg  ttaatatgtt  gcgcaacgtt  gttgccattg  ctacaggcat  cgtggtgtca  cgctcgctgt  ttggtatggc  ttcattcagc  tccggttccc
3801  aacgatcaag  gcgagttaca  tgatccccc  tgttgtgcaa  aaaaagcggt  agctccttgc  gtcctccgat  cgttgtcaga  agtaagtgg  ccgcagtggt
3901  atcactcatg  gttatggcag  cactgcataa  ttctcttact  gtcatgccat  ccgtaagatg  cttttctgtg  actggtgagt  actcaacca  gtcattctga
4001  gaatagtgt  tgcggcgacc  gagtgtctct  tgcccgcgt  caatacggga  taataccgg  ccacatagca  gaactttaaa  agtgcctac  attgaaaaac
4101  gttcttcggg  gcgaaaactc  tcaaggatct  taccgctgtt  gagatccagt  tcgatgtaac  ccactcgtgc  acccaactga  tcttcagcat  cttttacttt
4201  caccagcgtt  tctgggtgag  caaaaacagg  aaggcaaaat  gccgcaaaaa  agggaataag  ggcgacacgg  aaatgttgaa  tactcatact  cttccttttt
4301  caatattatt  gaagcattta  tcagggttat  tgtctcatga  gccgatacat  atttgaatgt  atttagaaaa  ataaacaaat  aggggttccg  cgcacatttc
4401  cccgaaaagt  gccacctgac  gtttaagaaa  ccattattat  catgacatta  acctataaaa  ataggcggtat  cagaggccc  tttcgtc

```

> RDC2897 Translated Insert Sequence

```

1  msalrpllll  llplcpggp  gpgseakvtr  scaetrqvlq  argyslnlip  palisgehlr  vcpqeytccs  seteqrlire  teatfrglve  dsqsfvlvhtl
101  aarhrkfdef  flemlsvagh  sltqlfshsy  grlyaqhali  fnqlfsrlrd  fygesgeglr  dladfwaql  lervfp1lhp  qysfppdyll  clsrlassstd
201  gslqpfgdsp  rrlrlqitrt  lvaarafvqg  letgrnvvse  alkvpvsegc  sqalmrligc  plcrvgvpslm  pcqgfc1nvv  rgclssrgle  pdwgnlydgl
301  liladklqgp  fsfeltaesi  gvkiseglmy  lqensakvsa  qvfqecggpd  pvparrnrrap  ppreaagrlw  smvteeerpt  taagtnlhlrl  vweirerlar
401  mrgfwarlsl  tvcgdsrmaa  dasleaapcw  tgagrgrlyp  pvvvgspaeq  vnnpelkvda  sgpdvptrrr  rlqlraatar  mktaalghdl  dgqdadedas
501  gsggggqyad  dwmagavapp  arpprpppy  rrdsgsgkgg  ggsarynqgr  srsggasigf  htqtililsl  salallgpr

```