

Specifications:

Gene:	hMDGA1
Accession:	NP_705691
Insert size:	2881bp
Concentration:	10µg at 0.2µg/µL

hMDGA1 cDNA Plasmid

**MDGA1 MAM domain
containing
glycosylphosphatidylinositol
anchor 1 [*Homo sapiens*
(human)]**

Also known as: GPIM; MAMDC3

Summary:

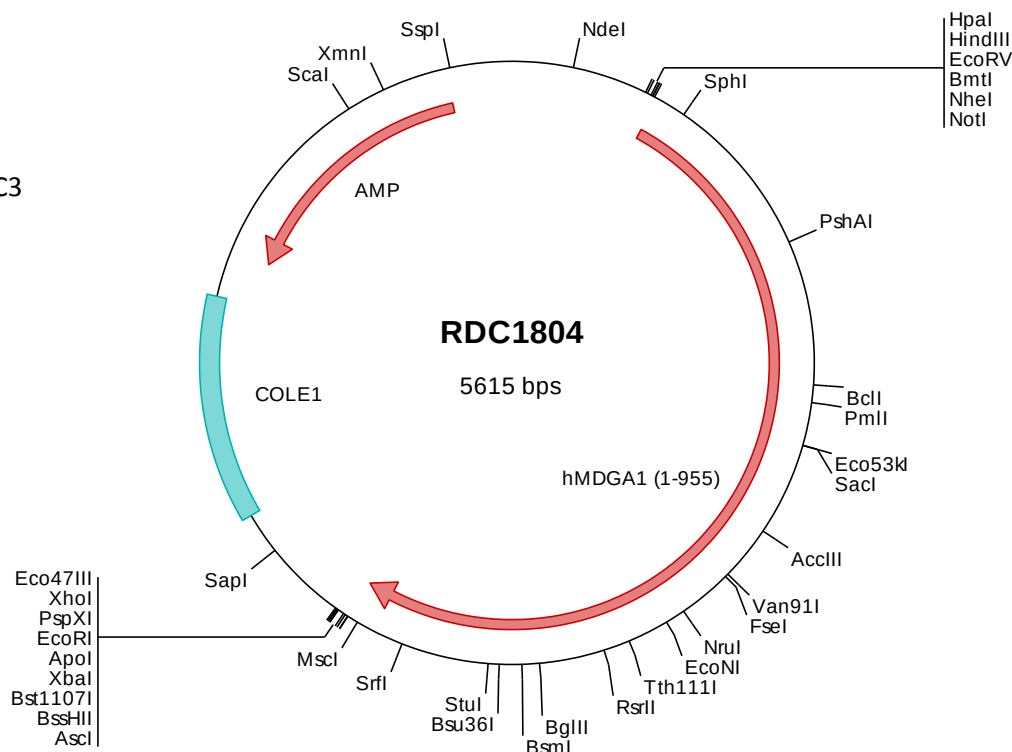
MDGA1 is a glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein that is expressed predominantly in the developing nervous system. Studies in other mammals suggest MDGA1 plays a role in cell adhesion, migration, and axon guidance and, in the developing brain, neuronal migration. In humans, MDGA1 is associated with bipolar disorder and schizophrenia.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1804 Plasmid DNA Sequence

```

1   tcgcgcgcttt  cggatgatgac  ggtgaaaaacc  tctgacacat  gcagctcccg  gagacgggtca  cagcttgctct  gtaagcggat  gccggggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtg  accatatg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcg  aactgttggt  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgcccagct  ggcgaaagg  ggaatgtgtg  caaggcgatt  aagttgggta  agcccgagg  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaaat
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcccac  atggaggtga  cctgccttct  acttctggcg  ctgatccct  tccactgcgc
501  ggggacaagg  gtctacgctc  cagcccaggc  cgacatcgtg  catcgcgccc  aggcattgtg  ggtgaaagag  gacaaatca  gcgagcgtgt  ctacaccatc
601  cgggaggggg  acaccctcat  gctgcagtg  cttgttaacg  ggcaccctcg  accccaggta  cgggtggacca  agacggcagg  tagcgctcg  gacaagtcc
701  aggagacatc  ggtgttcaac  gatgagctgc  gcatcgagcg  tattgcacgc  acgcagggag  cgcgctacta  ctgcaaggct  ggaacggcg  tgggggtgcc
801  ggccatcaag  tccatccgcg  tggacgtgca  gtacctggat  gagccaatgc  tgacggtgca  ccagacggtg  agcgaatg  gaggcaact  ctaccaggag
901  aagacggtgt  tcttgcgctg  tactgtcaac  tccaaccac  ctgcccgtt  catctggaag  cggggttccg  ataccctat  ccacagccag  gacaatgggg
1001  ttgacatcta  tgagccctc  tacactcagg  gggagaccaa  ggtcctgaag  ctgaagaacc  tgccgcccga  ggactatgc  agctacacct  gccaggtgtc
1101  tgtgcgtaac  gtgtgcggca  tcccagacaa  ggccatcacc  tcccggctca  ccaacaccac  gccaccacca  gccctgaag  tgtctgtgaa  cgaactctg
1201  tgggtgaacc  ctggggagaa  tgtgacggtg  cagtgcttgc  tgacaggcgc  tgatccctc  ccccagctgc  agtgggtccc  tgggcctggc  ccactgcccc
1301  tgggtgctgt  ggcccagggt  gcatccctca  gcatcccttc  agtgcaggcc  cgggactctg  cctactacaa  ctgcacagcc  ctgcacagcc  tgggcaaccc
1401  tgccaagaag  actgtcaacc  tgcgtgtgct  atccatgaag  aacgctacat  tcagatcacc  tctgtacgtg  atcaagaga  gtgagaacat  ccagctgggc
1501  caggacctga  agctactcgt  ccaactggat  gcagtgcgcc  aggagaaggt  gacctaccag  tgggtcaaga  atggcaagcc  ggcacgcgt  tccaagcggc
1601  tctgtgtgac  gcgcaatgat  cctgagctgc  ccgcatcacc  cagcagccta  acctgcaact  cagtgaactat  cagtgaactat  ggaactacc  tccagctggc
1701  ttcttcccca  ggggcacccg  tgcccgaact  cagcgtcgag  gtcaaatct  cctctgagac  agtgcgcccc  accatcagtg  tgcccaagg  tagggcgtg
1801  tgtacogtgc  gcgagggtac  gctgcgcgag  ctgcaatgcg  aggtgcgggg  taagctcgg  ccgccagtg  cctgttccc  cgtggacaa  gaggctgcac
1901  tgctgcctgc  tgggctgcgc  ctccggagga  ctccggagcg  gaagctgcgg  ctggagcgag  ctggagcgag  ctgagcggg  ctgagcggg  gccagcgcc
2001  ccgctataat  ggettcaaac  tgcccccgcg  tgaggccacc  gtgcagctga  acgtgcagtt  ccgcgcggag  gtggagccca  gttcccagga  cgtgcgccag
2101  gcgctggggc  ggcccgtgct  cctgcgctgc  ctgcgctgc  togtctgtgc  gaggcagccc  ccagcgcact  gcctcggctg  tgtggcgttt  atgctgcgc
2201  cgcgcgctgt  tgttccgcgc  gcgcgcgag  gcgcgcgag  ccgcggatca  cgcgcgagc  cgcctcagcg  cgcctcagcg  cgacagcag  ggtgcaagcg
2301  ctccaacgat  gtgggctcgg  ctgcctgcct  cttccagbto  tccgccaaag  cctacagccc  ggagttttac  ttgcacccc  ccaacccccc  ccgcagccac
2401  aagctgtcca  agaactactc  ctacgtgtgc  cagtggaact  agagggagcc  cgcagctgtc  gaacctgtgc  tgaactagag  ctaactagag  cgcagcttga
2501  accagacaaa  tgcggtgtgc  aaggctaccc  cggtcocggc  tgtgocggcg  gggcagcag  gggcagcag  tggagtacat  cctgaccgat  ctcctgtgtc
2601  tgaggtccgc  ctccacccct  ataccacct  cggggtgtgt  caccatggct  ccgcgcatct  ccactacaca  gagcccatca  actctccgaa  cctttcagac
2701  aacacctgcc  actttgagga  tgagaagatc  tgtggtcata  cccaggacct  gaacacaaac  tttgactgga  cgcgcgagaa  ggcctccacc  tgggtaacag
2801  aacgtccccc  caaacactgt  ccccaccacg  acataagtgt  caccocctag  ggctactaca  tgttcatcga  gacatcgagg  cctcggggag  tgggggacgc
2901  ctgaaggtta  gtgagtcgcc  tctacaatgc  cagcgccaa  cgttacttgt  tctccttctt  ctaccacatg  tacgggaaac  acatcggctc  cctccacccc
3001  tgggtgcggt  cccggaacaa  aggggtctgt  gaacagcagc  cctggtctct  cagtggaact  aaggggcaatg  tgtggcgaga  gggccatgtg  cccatcagcc
3101  ccagtggggc  cttccagatt  atttttgagg  ggggttcagg  cccgggctac  ctgggggata  ttgccataga  tgacgtcaca  ctgaagaagg  gggagtgctc
3201  ccggaagcag  accgatccca  ataaagtgt  ggtgatgcg  ggcagtgagg  ccccttgcca  gtccagccca  cagctgtggg  gggcccatgg  catcttctc
3301  ttggcgttgc  agagataaag  gcgcgcag  atactctaga  gtgcacacc  ggggaattcc  tcgagcgctc  gtctctagct  tggcgtaatc  atggtcatag
3401  ctgtttctgt  tgtgaaattg  ttatccgctc  acaattccac  acaacatacg  agccggaagc  ataaagtgt  aagcctggg  tgccatata  gtgagctaac
3501  tcacattaat  tgcgtttgcg  tcaactcccg  ctttccagtc  gggaaacctg  tcgtgccagc  tgcattaatg  aatcgccaa  cgcgcgggga  gaggcggttt
3601  gcgtattggg  cgtcttcccg  ctttccgct  cactgactcg  ctgcgctcgg  tcgttcggct  gcggcgagcg  gtatcagctc  actcaaaagg  ggtaatacgg
3701  ttatccacag  aatcagggga  taacgcagga  aagaacatgt  gagcaaaagg  ccagcaaaag  gccaggaacc  gtaaaaagg  cgcgttgtct  gcgtttttcc
3801  ataggtcccg  ccccccgcag  gagcatcaca  aaaatcgacg  ctcaagttag  aggtgcccga  acccgacagg  actataaagg  taccaggcgt  tccccctgg
3901  aagctccctc  gtgcgctctc  cttgtccgac  cctgcgcgtt  accggataac  tgctccgctt  tctccttcc  ggaagcgtgg  cagcttctca  atgtcactgc
4001  tgtaggtatc  tcagttcgg  gtaggctgt  cgtcccaagc  tgggctgtgt  ggcagcaacc  gcacgaaccc  cccgttcagc  cccgttcagc  cgccttatcc
4101  gtcttgagtc  caacccggt  agacacgact  tatcgccact  ggcagcagcc  actggttaac  agctggttaa  ggattagcag  agcgaggtat  ctacagagtt
4201  cttgaagtgg  tggcctaact  acggctacac  tagaaggaca  gtatttggta  tetgcgctct  tetgcgctct  gctgaagcca  gttaccttog  gaaaagagat
4301  tgatccggca  aacaaccac  cgtcgttagc  ggtggtttt  ttgtttgcaa  gcagcagatt  acgcgcagaa  aaaaaggatc  tcaagaagat  cctttgatct
4401  ttcttacggg  gtctgacgct  cagtggaaag  aaaactcac  ttaagggatt  ttggtcatga  gattatcaaa  aaggatcttc  acctagatcc  ttttaaatc
4501  aaaatgaagt  tttaaatcaa  ttaaaagtat  atatgagtaa  acttggctgt  acagttacca  atgcttaato  agtgaggcac  ctatctcagc  gatctctcta
4601  tttcgttcat  ccatagtgtc  ctgactcccc  gtcgtgtaga  taactacgat  acgggagggc  ttaccatctg  gccccagtc  tgcaatgata  ccgcgagacc
4701  cagctccacc  gggtccagat  ttatcagcaa  taaccagacc  agccggaagg  gccagcgca  gaagtgttcc  tgcaacttta  tccgcctcca  tccagcttat
4801  taattgttgc  cctgaagcta  gtagtaagta  ttccgcagtt  atagtgatg  atagctgtat  tgccattgct  acaggcatcg  tggtgtcacg  ctctcgcttt
4901  ggtatggctt  cattcagctc  cgttcccaa  cgatcaaggc  cgatcaaggc  cactcatggt  tatggcagca  cctgcacgta  aagcggttag  ctcttcggt
5001  ttgtcagaag  taagtgtg  gcagtggtat  cactcatggt  tatggcagca  cctgcacgta  ctgcataatt  cccggcgta  atacgggata  gtaagatgct
5101  tgggtgagta  tcaaccaagt  cattctgaga  atagtgtatg  cggcgagcga  cctgcctctg  cccggcgta  atacgggata  atacggcgcc  ataagcgcc
5201  actttaaaag  tgctcatcat  tggaaaacgt  tcttcggggc  gaaaactctc  aaggatctta  ccgctgttga  gatccagttc  gatgtaaccc  actcgtgcac
5301  ccaactgata  ttcagcatct  tttactttca  ccagcgtttc  tgggtgagca  aaaacaggaa  ggcaaaatgc  cgcaaaaaag  ggaataagg  cgacacggaa
5401  gqlllyild  lrvphsyevr  ltpyttfag  dmasriiht  agcattttac  aggggttatt  tctcatgagc  ggatacatat  ttgaatgtat  ttgaaaaaat
5501  aaacaaatag  gggttccgcg  cacatttccc  cgaaaagtgc  cacctgacgt  ctaagaaccc  attattatca  tgacattaac  ctataaaaat  aggcgtatca
5601  cgaggccctt  tcgtc

```

> RDC1804 Translated Insert Sequence

```

1   mevtclllla  lipfhcrqgg  vyapaqagiv  hagqacvvke  dniseriysi  regdtlmlqc  lvtghprpqv  rwtktagsas  dkfqtetsvfn  etlrieriar
101  tqggryycka  engvgvpaik  sirvdvqyld  epmltvhqtv  sdvrgnfyge  ktvflrctvn  snpparfiwk  rgsdtlshsq  dngvdiepl  ytqgetkvk
201  lknlrpqdya  sytcqvsrn  vcgipdkait  frlntntapp  alklsvnetl  vvnpgenvtv  qclltggdpl  pqlqwhshpg  plplgalagg  gtlslpsvqa
301  rdsyyyncta  tnnvgnpakk  tvnlvlrsmk  natfqtptdv  ikeseniqlg  qdlklshvld  avpqekvtq  wfknkxparm  skrlvltrnd  pelpavtssl
401  elidlhfsdy  gtylcmasfp  gapvpdlsv  vnissetvpp  tisvvpkgrv  vtvregspae  lqcevrgkpr  ppvlwsrvdc  eaallpsgld  leetpdgklr
501  lervsrmsg  tyrcqtaryn  gfnvrprea  vqlnvqfpe  vepssqdvq  algrpvllrc  sllrgspqri  asavwrfkgq  llppppvpva  aaeapdhael
601  rldavtrds  gsyecsvsnd  vgsaacflqv  sakayspefy  fdtpnptrsh  klsknysvyl  qwtqrepdav  dpvlnyrlsi  rqlnqhnavv  kaipvrrevk
701  gqlllyild  lrvphsyevr  ltpyttfag  dmasriiht  epinspnld  ntchfedeki  cgytqdltdn  fdwtrgnalt  qnpkrsptng  pptdisgtpe
801  gyymfietse  prelgrarl  vsplinasak  fycvsffyh  ykhigslnl  lvrsrnkgal  dthawslsgn  kgnvwqqahv  pispsspfqi  ifegvrgpgy
901  lgdiaiddvt  lkkgecprkq  tdpnkvvmp  gsgapcqssp  qlwgpmaifl  lalqr

```