*h*GPM6A VersaClone cDNA

Catalog Number: RDC0795

Specifications:

Gene:	*h*GPM6A
Accession:	NP_005268
Insert size:	850bp
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

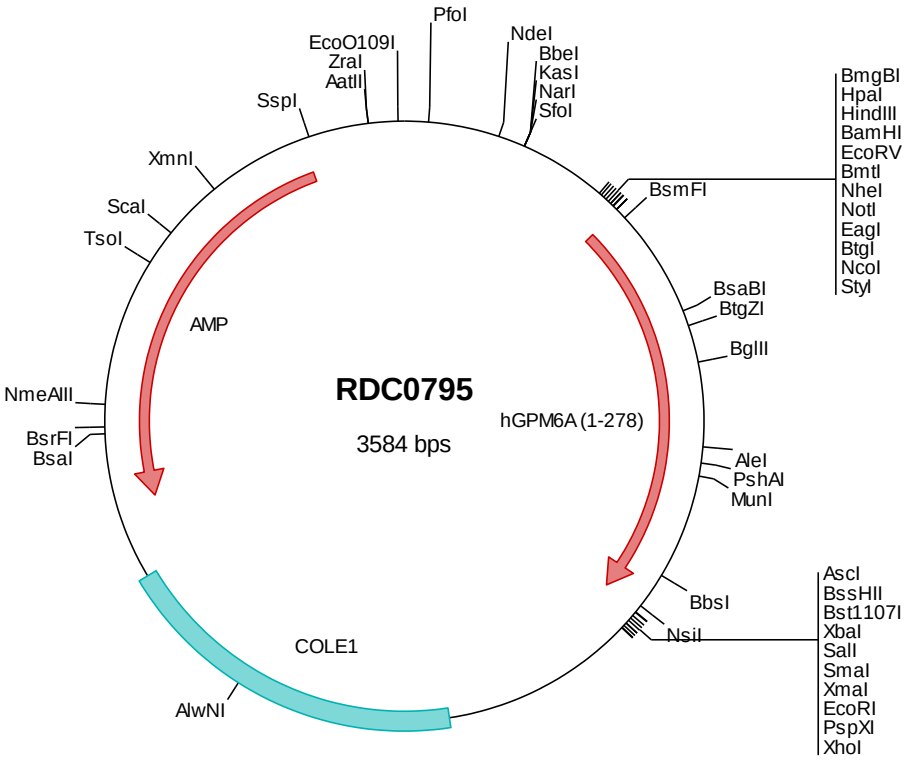
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*GPM6A cDNA Plasmid

GPM6A glycoprotein M6A
[*Homo sapiens* (human)]

Also known as: M6A; GPM6

Summary:
Glycoprotein M6A (GPM6A) is an abundant cell surface protein on neurons in the central nervous system (CNS). Overexpression of GPM6A increases the expression of neuroectodermal-associated genes (OTX1, Lmx1b, En1, Pax2, Sox2, and Wnt1). GPM6A may be associated with the differentiation and neuronal migration of neurons derived from undifferentiated human ES cells.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0795 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggaagaga atatggaaga gggacagaca caaaaagggt gttttgaatg
 501  ctgtatcaaa tgcctggggg gcattcccta tgcctctctg attgccacca tcctgctcta tgcgggtgtt gccctgttct gtggctgcgg tcatgaagcg
 601  ctttctggaa ctgtcaacat tctgcaaacc tactttgaga tggcaagaac tgctggagac acactggatg tttttaccat gattgacatc tttaagtatg
 701  tgatctacgg catcgcagct gcgttctttg tgtatggcat tttgctgatg gtggaaggtt tcttcacaac tggggccatc aaagatctct atggggattt
 801  caaaatcacc acttgtggca gatgtgtgag cgcttggttc attatgctga catatctttt catgttggcc tggctgggag tcacggcttt cacctcactg
 901  ccagtttaca tgtacttcaa tctgtggacc atctgccgga acaccacatt agtggaggga gcaaatctct gcttggacct tcgtcagttt ggaattgtga
1001  caattggaga ggaaaagaaa atttgtactg tctctgagaa tttcttgagg atgtgcgaat ctactgagct gaacatgacc ttccacttgt ttattgtggc
1101  acttgctgga gctggggcag cagtcattgc tatggttcac taccttatgg ttctgtctgc caactgggcc tatgtgaaag acgcctgccg gatgcagaag
1201  tatgaagaca tcaagtcgaa ggaagagcaa gagcttcatg acatccactc tactcgctcc aaagagcggc tcaatgcata cacataaagg cgcgccagta
1301  tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca
1401  caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaatgag tgagctaact cacattaatt gcgttgcgct cactgcccgc
1501  tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc
1601  actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaatacggt tatccacaga atcaggggat aacgcaggaa
1701  agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca taggctccgc cccctgacg agcatcacaa
1801  aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat accaggcgtt tccccctgga agctccctcg tgcgctctcc tgttccgacc
1901  ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc
2001  gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc aacccggtaa gacacgactt
2101  atcgccactg gcagcagcca ctggtaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact
2201  agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg
2301  gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga
2401  aaactcacgt taagggattt tggtcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaagtata
2501  tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc tatctcagcg atctgtctat ttcgttcatc catagttgcc tgactccccg
2601  tcgtgtagat aactacgata cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagaccc acgctcaccg gctccagatt tatcagcaat
2701  aaaccagcca gccggaaggg ccgagcgcag aagtggtcct gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt
2801  tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc ggttcccaac
2901  gatcaaggcg agttacatga tcccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt tgtcagaagt aagttggccg cagtgttatc
3001  actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa
3101  tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt
3201  cttcgggggcg aaaactctca aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc caactgatct tcagcatctt ttactttcac
3301  cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt cctttttcaa
3401  tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc
3501  gaaaagtgcc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaata ggcgtatcac gaggcccttt cgtc
```

> RDC0795 Translated Insert Sequence

```
   1  meenmeegqt qkgcfeccik clggipyasl iatillyagv alfcgcghea lsgtvnilqt yfemartagd tldvftmidi fkyviygiaa affvygillm
 101  vegffttgai kdlygdfkit tcgrcvsawf imltylfmla wlgvtaftsl pvymyfnlwt icrnttlveg anlcldlrqf givtigeekk ictvsenflr
 201  mcestelnmt fhlfivalag agaaviamvh ylmvlsanwa yvkdacrmqk yedikskeeq elhdihstrs kerlnayt
```