

## Product datasheet for **MC202182**

### **Gpm6a (NM\_153581) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpm6a (NM_153581) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpm6a
Synonyms:	Gpm6; M6A
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC029683 sequence for NM\_153581  
 AGGACTTGCCCAAGCCACTGCTGCTGGAGCTGCCAGGGAAAAAGGCACACGCTTTTTGACATCTAAT  
 TGAGCTTTTGACTAATACCGTGCGCCAGATTCTCCTGAAGAAAGGTAGCCATGGAAGAGAATATGGAAGA  
 AGGACAGACACAGAAAGGGTGCCTCGAGTGTGCATTAATGCCTGGGAGGTATCCCTATGCTTCTCTG  
 ATTGCAACCATCTGCTGTATGCAGGCGTTGCCCTGTTCTGTGGCTGTGGCCATGAAGCCCTTTCTGGAA  
 CAGTCAACATTCTGCAGACCTACTTTGAGTTGGCAAGGACTGCTGGAGACACACTGGATGTTTTCACTAT  
 GATTGACATCTTTAAGTATGTGATCTATGGCATTGCGGCTGCTTTCTTTGTCTATGGCATTTTACTGATG  
 GTAGAAGTTTCTTCACTACTGGGGCTATCAAAGATCTCTATGGAGACTTCAAAAATCACCACTGTGGCA  
 GATGTGTGAGCGCTTGGTTTATCATGCTGACATACCTTTCATGTTGGCCTGGCTGGGAGTCACAGCTTT  
 CACCTCACTGCCCGTGTACATGTATTTCAATGTGTGGACCATCTGCCGGAACACCACTCTAGTGGAGGGA  
 GCAAACTCTGCTTGGATCTGCGTCAGTTTGGATTGTGACAATTGGAGAGGAAAAGAAAATTTGACTG  
 CCTCTGAGAACTTCTGAGGATGTGTGAATCTACTGAGCTGAATATGACCTTCCACTTGTTCATTGTGGC  
 ACTTGCTGGAGCTGGAGCAGCAGTTATTGCTATGGTCCACTACCTGATGGTTCTGTCTGCCAACTGGGCC  
 TATGTGAAAGATGCCTGCCGCATGCAGAAGTACGAAGACATCAAGTCAAAGGAAGAGCAGGAGCTGCACG  
 ACATCCATTCTACTCGCTCCAAAGAGCGGCTCAATGCGTACACATAAATACGCTTCTCTGTTCTTACCA  
 CTGGAAGGCATTGGTGTTCATTAAGGGCCATCCAACCATCCAACCTGTGAAGAGCAAAAACGAGAATGCT  
 ACTCATCAAAGATGCGCAGGGTGACTAATGAATCACCTGAGTATAACTCTTTGCTGTTGAGCATTCCATC  
 TTCTAATTTGTTAAATTGGAATGACCAAATCTCCTCTACAAGCTCCTATTCAGTCTTTTTTTTAACTC  
 TCAAAATGATTTAGTTCTTCTGTATGATCAAAGATATTAACATTGTCCAACGCAAATCTTTGTTGATTT  
 TTAATCACCTCCCACATATCACACATAACACTTTTTGCATTGTTTCTTATGTTTTGGAAGAGAAAATAGC  
 TTTTTTATACTTTTTAGTTTTGATTTTCAGTAACTAGTTAACTACAGGTAACCTTCAAAGGGACCGTTG  
 TACATTATGAAAGAGAGACAGAGATGGTATCATGATGACTCCGCTTGATATGGGAATCAGTCTGGAGAGA  
 TCAGTGGCCACACGGCTATCGGCCATGGTTAATGTTTTCAATCCATCTAAGGTGCAATTTCAAAATTTCTA  
 AGGGTAGGTTAAAAAAAAGTGCTTCTTATCTTTGTTAACATTGTATTCTTTTTTCTTGATGTTTCGTA  
 AAAAAA  
 GGTATTTCTCTGATTACTCATGTTTATGTTGTGAGCATGTAGAAAACAGTAATGCTAATGCATGGCCAGTT  
 GCCTTCTAAGATTGTGACACCAGGCTTACCTTTTCAAGTTTAGTATAGAAAACAATTATCATGGAATAA  
 CTAAGTGTGGACTGTTGGAGAGTATCTTTTTTGTGATTTATGCAGTGGCTGGATTGGATCTTTAATAT  
 GCTAATGTGGAATAATTACCTTTATGAAGGTGGTATCTTAAACATAAGCACACTAAACCCTCAAGAC  
 TTGTTTTACCACTTAAACTTTTAAACGGATTGCACCTCTGTAAGCTATTTCTTAAATGTGTATGATAT  
 ATTTGAAAAGACTTCCATTAATAATAAGCTTTGCTTGCAGCCTTCCAATCTATGTTGGTTTACCTGTAG  
 TGTTTCTAAAGGGTGGTCAGAGGCCACTAGAGAATGATTTGTTTGGGAGTGTAGTATATATTTTGTG  
 TTTTTATTCAAGTAAGTCATTTAACC  
 AAATGTTCAATTCACATTCATTTATAAGAAGTACCTATATCAG  
 ACAAATTTTAAAAAGAAAACAATCAGTATTAATGGACCAAAATTCGTGTTTGTTTAACCTTGACTCTCT  
 TTTGATCTTTCTAATGCTACAAGAATGCTGTGAAATGTCATTTAAAAATAATGATGTAGCCTGACAAGAA  
 ATTTTGTGAGTGTATAAACCTAGGTAGTATTGTGCACTGATTTGACCATTGTGAATTCCTCCTCAGTGT  
 AAGTGCATTCCCAATAAAATTTATTGAGTGAAACAATCTTTGTACAACACTACTAGTCATGCATCATCAGTA  
 ATTTTACAAGTTCTTGTAGTAGGTAGGGGATTAAGTACTAGCGTTTCTGTGGCATGATTATGCATTCTGTAA  
 TATTAATTTGGGGTCCTTTTGCTTTTTAACACTTAGATTATCTAATGGTTCAACATTTTTCTGATATA  
 TGCAGTATTAAGATATTGAGCAAAAGTATTAATGGGCTTCTTTAAATTTCTATATTATAGTGTTCAGTT  
 CTGTGTCTACAGTGTGTGATGATTTTTTAAACTGTCTTTTAAATTTATGTAATGATGTTGACATTTTGTG  
 TTTTATTTCTGGTTTTAGAGTTTGTATTTTATGAGTGTCTTTGTAGCAGGCATTACAAGTAATCTGTTT  
 TGTACATAAATGTCCAACAGCTTGTGGTGGCGTTTTTGAATGTAGAACAAGTCTTGCAAAATGTA  
 ATAAATACACTTGTGACTTTGTGACTTATTCTTAAAAA  
 AAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_153581  
**Insert Size:** 837 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">BC029683</a> , <a href="#">AAH29683</a>
<b>RefSeq Size:</b>	2920 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	234267
<b>UniProt ID:</b>	<a href="#">P35802</a>
<b>Cytogenetics:</b>	8 B1.3
<b>Gene Summary:</b>	<p>Involved in neuronal differentiation, including differentiation and migration of neuronal stem cells. Plays a role in neuronal plasticity and is involved in neurite and filopodia outgrowth, filopodia motility and probably synapse formation. Gpm6a-induced filopodia formation involves mitogen-activated protein kinase (MAPK) and Src signaling pathways. Conflictingly, PubMed:22162747 reports that induced cellular protrusions are simple membrane-wrapped tubules without actin or tubulin-based cytoskeletons and with Gpm6a gliding along membrane edges indicative for a function in actin-independent membrane deformation. May be involved in neuronal NGF-dependent Ca(2+) influx. May be involved in regulation of endocytosis and intracellular trafficking of G-protein-coupled receptors (GPCRs); enhances internalization and recycling of mu-type opioid receptor.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).</p>