

## Product datasheet for **RR207347**

### Gpm6a (NM\_178105) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpm6a (NM_178105) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpm6a
Synonyms:	M6a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207347 representing NM_178105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAAGAGAATATGGAAGAAGGACAGACACAAAAAGGGTGTGTTTGTAGTGCTGCATTAATGCCTGGGAG  
GTATCCCTATGCTTCTCTGATTGCTACCATCCTGCTGTATGCAGGCGTTGCCCTGTTCTGTGGCTGTGG  
TCATGAAGCCCTTCTGGAACAGTCAACATTCTGCAGACCTACTTTGAGATGGCAAGAAGTCTGGAGAC  
ACACTGGATGTTTTACCATGATTGATATCTTTAAGTATGTGATCTACGGCATTGCGGCTGCTTTCTTTG  
TCTATGGCATTCTACTGATGGTGAAGGTTTCTTCACTGAGGCGCTTGGTTATCATGCTGACATACCTCTTCATGTTGGCC  
CAAAATCACACCTGTGGCAGATGTGTGAGCGCTTGGTTATCATGCTGACATACCTCTTCATGTTGGCC  
TGGCTGGGAGTCACAGCTTTTACCTCACTGCCAGTGTACATGATTTCAACGTGTGGACCATCTGCCGGA  
ATACTACACTCGTGGAGGGAGCAAATCTCTGCTTGGACCTTCGTCAGTTTGGGATTGTGACAATTGGAGA  
GGAAAAGAAAATTTGACTGTCTCTGAGAACTTCTGAGGATGTGTGAATCTACTGAGCTGAACATGACC  
TTCCACTTGTTCATTGTGGCCCTTGTGGAGCAGGAGCAGCAGTATTGCTATGGTTCACCTACCTATGG  
TTCTGTCTGCCAACTGGCCTATGTGAAAGATGCCTGCCGGATGCAGAAGTATGAAGACATCAAGTCAAA  
GGAGGAGCAAGAGCTTCATGACATTCATTCCACCCGCTCCAAGAGCGGCTCAATGCATACACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207347 representing NM\_178105  
Red=Cloning site Green=Tags(s)

MEENMEEGQTQKGCFECCIKCLGGIPYASLIATILLYAGVALFCGCGHEALSGTVNILQTYFEMARTAGD  
 TLDVFTMIDIFKYVIYGIAAAFFVYGILLMVEGFFTTGAIKDLYGDFKITTCGRCVSAWFIMLTYLFMLA  
 WLGVTAFITSLPVYMYFNVWTICRNTTLVEGANLCLDLRQFGIVTIGEEKICTVSENFLRMCESTELNMT  
 FHLFIVALAGAGAAVIAMVHYLMVLSANWAYVKDACRMQKYEDIKSKEEQELHDIHSTRSKERLNAYT

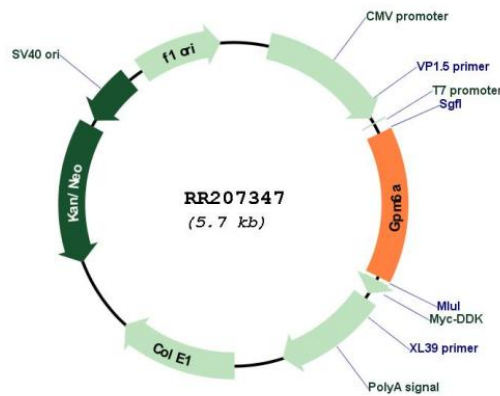
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_178105  
**ORF Size:** 834 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_178105.2</a> , <a href="#">NP_835206.1</a>
<b>RefSeq Size:</b>	2826 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	306439
<b>UniProt ID:</b>	<a href="#">Q812E9</a>
<b>Cytogenetics:</b>	16p11
<b>MW:</b>	31.2 kDa
<b>Gene Summary:</b>	a NGF-gated Ca <sup>2+</sup> channel involved in neuronal differentiation [RGD, Feb 2006]