

## Product datasheet for **MC202606**

### **Gpc1 (NM\_016696) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpc1 (NM_016696) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpc1
Synonyms:	A1462976
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```
>BC062902 sequence for NM_016696
CGCACACTGGGCTGAGCGGGCCGGCCGGGACCGAGGGAGGCGCGCACCGGCGGCCAGGGAGCCTCGGGCC
CCGCCATGGAACCTCCGGACCCGAGGCTGGTGGCTGCTGTGCGCGGCCGCCGCTGGTCTGTGCGCCCCG
CGGGGACCCCGCCAGCAAGAGCCGGAGCTGCAGCGAAGTCCGCCAGATCTACGGGGCTAAGGGCTTTAGC
CTGAGCGATGTCCCTCAGGCAGAGATCTCGGTGAGCACCTGCGGATCTGCCCCAGGGCTACACTTGCTG
TACTAGTGAGATGGAGGAGAATTTGGCCAACACAGCCGAATGGAGCTGGAGAGCGCACTCCATGACAG
CAGCCGCGCCCTGCAGGCCACACTGGCCACCCAGCTGCATGGCATCGATGACCCTTCCAGCGCTGCTG
AATGACTCGGAGCGCACACTGCAGGAGGCTTCCCTGGGGCCTTTGGGGACCTGTATACGAGAACAACACTC
GTGCCCTCCGGGACCTATATGCTGAGCTGCGCCTCTACTACCGTGGGGCCAACCTGCACCTTGAGGAGAC
GCTGGCCGAGTTCTGGGCACGGCTGCTGGAGCGCCTTTCAAGCAGCTGCACCCCACTGCTGCTGAT
GACTACCTGGACTGCCTGGGCAAGCAGGCGGAGGCACTGCGGCCGTTTGGAGATGCCCTCGAGAAGTGC
GCCTGCGGGCCACCCGTGCCCTTTGTGGCTGCACGTTCTTTGTGCAGGGCCTGGGTGGCCAGTGATGT
AGTCCGGAAGGTGGCCAGGTACCTCTGGCCCCAGAATGTTCTCGGGCCATCATGAAGTTGGTCTACTGT
GCTCATTGCCGGGAGTCCCGGGCGCCCGGCCCTGCCCGACTATTGCCAAATGTGCTCAAAGGCTGCC
TTGCCAACAGGCGGACCTGGATGCCGAGTGGAGGAACCTCCTGGACTCCATGGTCTCATCACTGACAA
GTTCTGGGGCCCTCGGGTGCAGGAGAGTGCATTGGCGGTGTGCACGTGTGGCTGGCGGAGGCCATCAAC
GCCCTCCAGGACAACAAGGACACACTCACAGCTAAGGTATCCAGGCCTGTGAAAACCCCAAGGTCAATC
CCCACGGCTCTGGGCCGAGGAGAAGCGTGCCTGGCAAATGGCACTGCAGGAGAAGCCCTCCACAGG
TACTCTGGAAAACTGGTCTCTGAGGCCAAGGCCAGCTCCGAGACATTCAGGACTTCTGGATCAGCCTC
CCAGGGACACTGTGCAGTGAGAAGATGGCCATGAGTCTGCCAGTGACGACCGCTGCTGGAATGGAATTT
CCAAGGGCCGGTACCTACCAGAGGTGATGGGTGACGGGCTGGCCAACAGATCAACAACCTGAGGTGGA
AGTGGACATCACCAAGCCAGACATGACCATCCGCCAGCAGATTATGCAGCTCAAGATCATGACCAACCGT
TTACGTGGCGCCTATGGCGGCAACGACGCTGGACTTCCAGGATGCTAGTGATGACGCGCACTCCGGCA
CGGGTGGCGGATGCCAGATGACACCTGTGGCCGAGGGTGCAGCAAGAAGAGTTCAGACTCCCGGACCCC
CTTGACCCATGCCCTCCCGGCCGTGCAGAACAGGAGGGACAGAAGACCTCAGCTGCCACCTGCCAGAG
CCCCACAGCTTCTTCTGCTCTTCTCGTCACTTGGTCTTGGCGCAGCCAGGCCAGGTGGCGGTAAC
TGCCCCCTATCCCAAGGACTGTCTTGGCCAAAACATGCAACAGACCATATTTAATTCCTTGGCCTTTT
GAGGTCCAGGGCAGGATAAAGGAGACAGTGTCTGAGTGTGGGGCAGGGTGCATGGGGGGTCTGGCC
TCCTGGGTCTGGCCACGCCTGTCAACCCTAGCTTTAATTTGTATCAGGTGAGTGCAGCCAGTGTCCC
CAAAAGCCATGTATTTAGGGACCTCAGGGGCACCTCTGGCTGCACACTCTCCCTACCCTCCTGCACC
ACCCCCAGAAGCTCATGAGGCCAACAGAAAGGGCGGCTTTAGCTACAACCAACGGAGACCTCAAGTGA
GCCTGTGCTTCTCCTGCTTCCCGCTGGGGACTCCCTACCAGACCCCATGGGCCACAGATGTCA
GAAATTGAGGCCATCCTGCAGCTCCCCAGGAAGCCTGCAAGGGATGCCAGTATGTTGCTGTCCAGGCTC
TGGCAGGGCCTTCAAGTTTATGCATGATACCTTACTCAGAAGAAGCTCTGCAGCCAGGATCCCCACAC
ACAGCAGACCAGGACCCTGTACCACTGTGGAGCTCAGTGAATCTGGTTCTCAAAAAAGACCCACTGTGG
GATTCTCTAGTATGACGTAGGTGAGGTGGGAGGTGGCAGCTGGCAGCCATACTACGCTCAACTCTTCC
ACACTGTTTGAGGGTATGTTCCGTCCCTCAGATGGGCTCACAAAGACTGGCCTTGGTGGTCCACATGAG
GAGCCTCACTTCAGGGGAACAGCCAGCTACATCTAGCCCTACCCACTTAGAAAGGTACCTGGCCATG
GGGATGCTGGGTGGCTGGTGAAACTTTAGCTCAGGGTCAATGAGACCTGGCACTGCAGTCAAGAGGATG
CCTGGGCCCTTCTGACCCAGGCAGCTCTGCAGGAGCTGGGGCAGCATTGACAGTCAAGGGCTTTTACA
GACATGCACATTCAGACCCTCAGTGTCTTGTCCACTGAGCGCTACATCTCCATCTTCTTGACAGCACT
GGAGAGGCTCAGGGCACCACTTGAATCTGGTTTCTCCTATGGCCTCGAGACCTGGGGGCACCTGGCTT
ACCAAGGCTGTCAAGGCTCCATCTTCCCTTCCAGGGCCTAGGGGATGCTGAGTTGCTATATCCAGGAAGG
CAGTGGTCTGACATGCAGAAGGCTGGAAAAAGGCTGCTTACCCTTTTTTTTTTTTTAATTTAAT
TTTTTTTTTTAACTTTCTTTTAGTCACTGGGTTAGAGAGGCTATTGCCAGCACAGCACCAAGGCCCTGCC
CAGTAGTCAGGTCCCCTGGTCCAGGATGGGTATTCTCCATAATTGGTCTGTGGGTTTGTGGGCCATGC
CCTGAGCACACTCAACCCAGCCACAGCCCTGCTAGTGCCACTCAAGCAGGGGCACTGGGAGCTAGACCTG
GGCTCTGAGATGAGTGCCTAGGTGTGAGGACAGCAGCACCCATGCTGTACAGGGCAGCCGGACAGTGGC
CAGGGTACTGGGTCCTTCTCTGCACTCGGTGTGAGTGGATAATGTGTGTTCTTTGAGTCTTGTATGA
ATTAAGGCTGGGGACCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:**

Ascl-NotI

<b>ACCN:</b>	NM_016696
<b>Insert Size:</b>	1674 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="#">BC062902</a> , <a href="#">AAH62902</a>
<b>RefSeq Size:</b>	3410 bp
<b>RefSeq ORF:</b>	1674 bp
<b>Locus ID:</b>	14733
<b>UniProt ID:</b>	<a href="#">Q9QZF2</a>
<b>Cytogenetics:</b>	1 D
<b>Gene Summary:</b>	Cell surface proteoglycan that bears heparan sulfate. Binds, via the heparan sulfate side chains, alpha-4 (V) collagen and participates in Schwann cell myelination (By similarity). May act as a catalyst in increasing the rate of conversion of prion protein PRPN(C) to PRNP(Sc) via associating (via the heparan sulfate side chains) with both forms of PRPN, targeting them to lipid rafts and facilitating their interaction. Required for proper skeletal muscle differentiation by sequestering FGF2 in lipid rafts preventing its binding to receptors (FGFRs) and inhibiting the FGF-mediated signaling. Binds Cu(2+) or Zn(2+) ions.[UniProtKB/Swiss-Prot Function]