

## Product datasheet for **MC219262**

### **Gpc3 (NM\_016697) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpc3 (NM_016697) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpc3
Synonyms:	OCI-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219262 representing NM\_016697  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGGACCGTGCACCCGCTGCTTGTGGTGGCGATGCTGCTAGGCTTGGCTGCCTGGGACAGG  
 CGCAGCCCCCGCCCTCCAGACGCCACCTGTCACCAGGTCCGTTCTTTCTCCAGAGACTGCAGCCGG  
 ACTCAAATGGGTTCCAGAAACCCCTGTACCAGGATCAGATTTGCAAGTATGCTCTCCCAAGGCCCAACA  
 TGCTGCTCAAGAAAGATGGAAGAAAAATACCAACTAACAGCACGGCTGAACATGGAACAAGTCTCCAGT  
 CTGCGAGTATGGAAGTCAAGTTCTTAATTATTGCAAGTGTGCGGTTTTCCAAGAGGCCCTTTGAAATTGT  
 TGTTCCGCATGCCAAGAAGTACACCAACGCCATGTTCAAGAATACTACCCAGCCTGACTCCACAAGCT  
 TTTGAGTTTGTGGTGAATTTTTACAGATGTCTCTCTACATCTTGGGTTCTGATATCAACGTGGATG  
 ATATGGTCAATGAATTGTTGCAGCCTCTTTCCAGTCATCTACCCAGATGATGAACCCAGGCCCTGCC  
 TGAGTCAGTCTTAGACATCAACGAGTGCCTCCGAGGAGCAAGACGTGACCTGAAAGTATTTGGCAGTTTC  
 CCCAAGCTTATTATGACCCAGGTTTCCAAGTCACTGCAAGTCACTCGAATCTTCCCTCAAGCCCTGAATC  
 TCGAATTGAAGTCATCAACTACCGACCACCTCAAGTTTGTAGTAAAGACTGTGGCCGATGCTCACCCG  
 AATGTGGTATTGCTCTTACTGCCAGGACTGATGATGGTTAAGCCTTGGGTTGTTATTGCAATGTGGTC  
 ATGCAAGGCTGTATGGTGGTGGTGGAGATCGACAAGTACTGGAGAGAATACATTCTGTCTCTTGAAG  
 AGCTCGTGAATGGCATGTACAGAATCTACGACATGGAGAATGTGCTGCTCGGCCTCTTTTCTACCATCCA  
 TGATTCATCCAGTATGTGCAGAAGAACGGAGGCAAGCTGACCACCATTGGCAAGTTGTGTGCCAC  
 TCCAGCAACGCCAATATAGATCTGCTTATTACCCTGAAGATCTGTTTATTGACAAGAAGATATTTAAAG  
 TCGTCAATGTGCAACATGAAGAAACCTTATCCAGCCGAAGAAGGGAAGTATTGCAAGAACTGAAGTCTTT  
 CATCAACTTCTATAGCGCTTGGCCGGCTACATCTGCAGCCATAGCCCCGTGGCCGAAAATGATACCCTG  
 TGCTGGAACGGACAAGAAGTGTGGAGAGATACAGCCAGAAGGCCGCAAGGAACGGGATGAAGAATCAGT  
 TTAACCTCCATGAGCTGAAAATGAAGGGCCCTGAGCCGGTGGTTAGCCAGATCATTGACAACTGAAGCA  
 CATTAAACCAGCTCCTGAGAACCATGTCTGTGCCAAGGGTAAAGTTCTGGATAAAAGCCTGGATGAAGAA  
 GGACTTGAAGTGGAGACTGCGGTGATGATGAAGTGAATGCATTGGAAGCTCTGGTACGGGATGGTGA  
 AAGTGAAGAACTCACTGCGCTTCTTGCAGAACTGGCCTATGATCTGGATGTGGACGATGCTCCGGGAA  
 CAAGCAGCATGGAATCAGAAGGACAACGAGATACCACCTCTCACAGCGTGGGGAACATGCCGTCCCA  
 CTGAAGATCCTCATCAGTGTGGCCATCTATGTGGCGTGTCTTTTTCTGGTGCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_016697

**Insert Size:** 1740 bp

**OTI Disclaimer:** 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).

**Components:** 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="#">BC036126</a> , <a href="#">AAH36126</a>
<b>RefSeq Size:</b>	2312 bp
<b>RefSeq ORF:</b>	1740 bp
<b>Locus ID:</b>	14734
<b>UniProt ID:</b>	<a href="#">Q8CFZ4</a>
<b>Cytogenetics:</b>	X A5
<b>Gene Summary:</b>	<p>Cell surface proteoglycan that bears heparan sulfate (By similarity). Negatively regulates the hedgehog signaling pathway when attached via the GPI-anchor to the cell surface by competing with the hedgehog receptor PTC1 for binding to hedgehog proteins (PubMed:18477453, PubMed:23665349). Binding to the hedgehog protein SHH triggers internalization of the complex by endocytosis and its subsequent lysosomal degradation (PubMed:18477453). Positively regulates the canonical Wnt signaling pathway by binding to the Wnt receptor Frizzled and stimulating the binding of the Frizzled receptor to Wnt ligands (By similarity). Positively regulates the non-canonical Wnt signaling pathway (PubMed:15537637). Binds to CD81 which decreases the availability of free CD81 for binding to the transcriptional repressor HHEX, resulting in nuclear translocation of HHEX and transcriptional repression (PubMed:23665349). Inhibits the dipeptidyl peptidase activity of DPP4 (By similarity). Plays a role in limb patterning and skeletal development by controlling the cellular response to BMP4 (PubMed:10964473). Modulates the effects of growth factors BMP2, BMP7 and FGF7 on renal branching morphogenesis (PubMed:11180950). Required for coronary vascular development (PubMed:19733558). Plays a role in regulating cell movements during gastrulation (By similarity).[UniProtKB/Swiss-Prot Function]</p>