

## Product datasheet for **SC321702**

### **PIGM (NM\_145167) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIGM (NM_145167) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGM
Synonyms:	GPI-MT-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_145167.2  
 GTTTTTGGCTCGGGCGGCTGAGAAGACCGCGGGGCTGGAGACAGGTAGCAGTACGGGG  
 GCGGGGCTTCATGCCGGATGTGATAGTCTGCAGTCGTTTCGGTTGGCAGCCTGGCGGGTG  
 GGAGATGCGGGCGGCCACCTGCTGCAAAGAACCAGGGAAGGTTAGAAGTACGAAGGCAG  
 TTTGGAGCTGGGGCTAAGCAGCTGTGCGACGGTCAGATCATGGGCTCCACCAAGCACTGG  
 GGCGAATGGCTCCTGAACTTGAAGGTGGCTCCAGCCGGCGTCTTTGGTGTGGCCTTTCTA  
 GCCAGAGTCGACCCTGGTTTCTATGGCGTCTCCAGGACCGGACCCTGCACGTGAGGTAT  
 ACGGACATCGACTACCAGGTCTTCACCGACGCCGCGCTTCGTACGGAGGGGCGCTCG  
 CCTTACCTGAGAGCCACGTACCGTTACACCCCGCTGCTGGGTTGGCTCCTCACTCCCAAC  
 ATCTACCTCAGCGAGCTCTTTGAAAAGTTCTCTTCATCAGTGCAGCTCCTCACCGCT  
 TTCCTTATACCGCCTGCTGCTGCTGAAGGGGCTGGGGCGCCGAGGCTTGTGGCTAC  
 TGTGTCTTTGGCTTCTAACCCCTGCCTATGGCAGTATCCAGCCGGTAATGCGGAC  
 TCTATTGTCGCTCCCTGGTCTGATGGTCTCTACTTGATAAAGAAAAGACTCGTCGG  
 TGTGCAGCTGATTCTATGGTTTCGCGGTGCATATGAAGATATATCCAGTGACTTACATC  
 CTTCCATAACCCCTCCACTGCTCCAGATCGCGACAATGACAAAAGCCTCCGTCAATTC  
 CGGTACACTTTCAGGCTTGTGGTACGAGCTCCTGAAAAGGCTGTGTAATCGGGCTGTG  
 CTGCTGTTTGTAGCAGTTGCTGGACTCACGTTTTTGGCCCTGAGCTTTGGTTTTACTAT  
 GAGTACGGCTGGGAATTTTTGGAACACACCTACTTTTATCACCTGACTAGGCGGGATATC  
 CGTCACAACTTTTCTCCGTACTTCTACATGCTGTATTTGACTGCAGAGAGCAAGTGGAGT  
 TTTTCCCTGGGAATTGCTGCATTCTGCCACAGCTCATCTTGCTTTCAGCTGTGTCTTTC  
 GCCTATTACAGAGACCTCGTTTTTGGTGGTTTTCTTATACGTCATTTTTTGTGACTTTT  
 AACAAAGTCTGCACCTCCAGTACTTTCTTTGGTACCTCTGCTTACTGCCTCTTGTGATG  
 CCACTAGTCAGAATGCCCTGGAAAAGAGCTGTAGTTCTCCTAATGTTATGGTTTATAGGG  
 CAGGCCATGTGGCTGGCTCCTGCCTATGTTCTAGAGTTTCAAGGAAAGAACACCTTCTG  
 TTTATTTGGTTAGCTGGTTGTTCTTTCTTATCAATTGTTCCATCCTGATTCAAATT  
 ATTTCCCATTAACAAGAAGAACCCTGACAGAGAGAATCAAATATGACTAGTGTATGTTT  
 CACACCCTCTGCTACTGTGTTACATTCTGATTGTCTTGTATGGACCAGAAGAGAGCTTTG  
 GGACATTTTTTCTGAACATTCTAAGCATTCTAGTGAAAGTTCCCATGTTCCAACAGA  
 AACTTAAAGCAATGTTGCTTATATATAAAAGGGACACAATAATTGAGGTCCACCTTCTAGG  
 AAATCCTAGGACTCGTTTATTTGGGACATGGTGGGAATAAAGGTCACATATTGAAAAATG  
 GAAAGGCTGATGAACTATCAGATACTAAACATTCTTAAATAGAGGAATATAGTTAGA  
 GACATCAGGTTTAAAGCCAGTATTTGTTCTGTTTACAATGCTTCTGTCTTAAGCTGTGT  
 CTTAACTTTTAAACCCATCTTTTCTTTCTAAAGCTTTCCTGACAGCTGTGAAAAATCAA  
 AAAATATTCTTAACTGTGTATGGTGGCCCTTGCCTGTAGTCTCAGCACTTTGGGAGGCT  
 GAGGTGGGAGGTCGCTTGTGATTCAGGAGTTCTAGACCCACCTGGGGCAAGATGGTGA  
 CCTAGTCTCAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_145167

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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="#">NM_145167.2</a> , <a href="#">NP_660150.1</a>
<b>RefSeq Size:</b>	4322 bp
<b>RefSeq ORF:</b>	1272 bp
<b>Locus ID:</b>	93183
<b>UniProt ID:</b>	<a href="#">Q9H3S5</a>
<b>Cytogenetics:</b>	1q23.2
<b>Domains:</b>	Mannosyl_trans
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a transmembrane protein that is located in the endoplasmic reticulum and is involved in GPI-anchor biosynthesis. The glycosylphosphatidylinositol (GPI)-anchor is a glycolipid which contains three mannose molecules in its core backbone. The GPI-anchor is found on many blood cells and serves to anchor proteins to the cell surface. This gene encodes a mannosyltransferase, GPI-MT-I, that transfers the first mannose to GPI on the luminal side of the endoplasmic reticulum. [provided by RefSeq, Jul 2008]