

## Product datasheet for **SC310271**

### **PIGB (NM\_004855) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIGB (NM_004855) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGB
Synonyms:	DEE80; EIEE80; GPI-MT-III; PIG-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310271 representing NM\_004855.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGGAGGCCCTAAGCAAGTGCGGAATGGAGCCGGGGCGGAGATGCCAGCCTCACTTTGCATGGT
CTCCAGAACCCTCCACCGCAAGATAAAGCTGCGAAAGAGAAAGTCTACCTTGTACTTCAACACCCAG
GAGAAGAGCGCCAGGCCGCCGGGGATCTTCTTGGAGAAAATATTTATCTGCTCTTGTACCATAGCT
TTACGAATATTAAGTCTTTTTAGTGCAGACAAGTTTTGTTCCAGATGAATACTGGCAGTCTCTTGAA
GTTTCACATCACATGGTTTTCAATTATGGTTATTTGACTTGGGAATGGACAGAGAGACTGAGGAGTTAC
ACTTATCCCTTAATCTTTGCAAGCATTTACAAGATTCTTCATCTTTAGGGAAAGATAGTGTTCAGTTG
CTGATTTGGATTCTAGACTTGCCCAAGCACTTCTGTCTGCTGTAGCAGATGTGAGACTTTACTCATTA
ATGAAGCAACTAGAAAATCAGGAAGTGGCAAGATGGGTGTTTTTTGCCAGTTGTCTCCTGTTTCCACA
TGGTATTGCTGTACCAGAACCCTTACAACACCATGGAACTGTTCTCACTATAATTGCTCTTTTCTAC
TATCCTTTGGAAGTTCAAAGTCTATGAACAGTGTCAAATACTCATCCCTGGTGGCACTTGCCTTCATA
ATTCGTCCACAGCTGTCAATTCTGTGGACACCTTTGCTCTTCAGACATTTCTGTCAAGAACCAAGAAAG
CTTGATCTTATTCTACATCATTTTTTACCTGTAGGCTTTGTTACTTTGAGTTTGTCTCTGATGATTGAT
CGTATTTTTTTGGCCAATGGACTCTGGTTCAATTTAATTTTTGAAATTTAACGTGCTGCGAAGTGG
GGAACATTTTTATGGTTCTCATCCATGGCACTGGTACTTCAAGTCAAGGATTTCCAGTTATCTTGGGTACT
CACTTACCCTTCTTTATTCATGGCTGCTATCTAGCACAAAGAGATACCGGATACCTTTGGTGACTGTG
CTGTGGCACTGCTTGTATAGCATGTTGAGCCACAAAGAATTCAGGTTATTTATCCAGTTTACCA
TTCTGTATGGTGTCTGTGGATACTCATTAAACCCACTGAAAACATGGAAGAAACCAGCTCTAAGTTTC
CTGTTTTTATCAAATTTGTTCTCGCCCTTATCTACTGGTTTAGTTCATCAACGAGGTACTCTTGTGTC
ATGAGTCATATTCAAAAAGTTTGTACAACAATCCCAATAAATCTCAGCTTCAATATTTATAATGATG
CCTTGCCACTCTACTCCTTATTACAGCCATGTTCACTGCCCACTCCCATGAGATTTCTCCAGTGCCCG
CCAGACCTGACTGAAAAAGTCATTATCTTGATGAAGCAGATGATTTTACCTAAATCCCTTAAACTGG
TTACATAGAGAGTTTTCATGATGATGCATCATTGCCTACTCACTTGTATCACCTTCAGCATTGGAAGAG
GAAATAAGCGCTTCTCAATTTCAAGCAATTATAAAGAAGTCTGTTTTCTTCCCACTCACTTGCCA
GAGGGTGAATTGGAAGTCACATATATGTCTATGAACGGAAGTTAAAAGGGAAATCAACATGAAGATG
AAATTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_004855

**Insert Size:** 1665 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

<b>OTI Annotation:</b>	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
<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_004855.4</a>
<b>RefSeq Size:</b>	2227 bp
<b>RefSeq ORF:</b>	1665 bp
<b>Locus ID:</b>	9488
<b>UniProt ID:</b>	<a href="#">Q92521</a>
<b>Cytogenetics:</b>	15q21.3
<b>Domains:</b>	PMP
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
<b>MW:</b>	65.1 kDa
<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 found on many blood cells and serves to anchor proteins to the cell surface. This gene is thought to encode a member of a family of dolichol-phosphate-mannose (Dol-P-Man) dependent mannosyltransferases. [provided by RefSeq, Jul 2008]