

Product datasheet for **RC204441**

PIGB (NM_004855) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC204441 representing NM_004855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGAGGCCCTAAGCAAGTGCAGCAAGTGGAGCCGGGGGCGGAGATGCCAGCCTCACTTTGCATGGTC
 TCCAGAACCGCTCCACGGCAAGATAAAGCTGCGAAAGAGAAAGTCTACCTTGACTTCAACACCCAGGA
 GAAGAGCGCCAGGCGCCGCGGGATCTTCTGGAGAAAATATTTATCTGCTCTTGTTTACCTTAGCTTTA
 CGAATATTAAGTCTTTTTAGTGCAGACAAGTTTTGTTCCAGATGAATACTGGCAGTCTCTTGAAGTTT
 CACATCACATGGTTTTCAATTATGGTTATTTGACTTGGGAATGGACAGAGAGACTGAGGAGTTACTCTTA
 TCCCTTAATCTTTGCAAGCATTACAAGATTCTCATCTTTAGGGAAAGATAGTGTTCAGTTGCTGATT
 TGGATTCTAGACTTGCCCAAGCACTTCTGTCTGTAGCAGATGTGAGACTTTACTCATTAAATGAAGC
 AACTAGAAAATCAGGAAGTGGCAAGATGGGTGTTTTTTGCCAGTTGTGCTCCTGGTTCACATGGTATTG
 CTGTACCAAGAACCTTACAAACACCATGAAAAGTCTTCTACTATAATTGCTCTTTCTACTATCCTTTG
 GAAGGTTCAAAGTCTATGAACAGTGTCAAATACTCATCCCTGGTGGCACTTGCCCTCATAAATTCGCCCCA
 CAGCTGTCACTTGTGGACACCTTTGCTCTTCAGACATTTCTGTCAAGAACCAAGAAAGCTTGATCTTAT
 TCTACATCACTTTTACCTGTAGGCTTTGTACTTTGAGTTTGTCTCTGATGATTGATCGTATTTTTTTT
 GGCCAATGGACTCTGGTCAATTTAATTTTTGAAATTAACGTGCTGCAGAAGTGGGAACATTTTATG
 GTTCTCATCCATGGCACTGGTACTTCAGTCAAGGATTTCCAGTTATCTTGGGACTCACTTACCCTTCTT
 TATTCATGGCTGCTATCTAGCACCAGAGATACCGGATACTTTTGGTACTGTGCTGTGGACACTGCTT
 GTTATAGCATGTTGAGCCACAAAGAATTCAGTTTATTTATCCAGTTTACCATTCTGTATGGTGTCT
 GTGGACTCATTAACCCACCTGAAAACATGGAAGAAACCAGCTCTAAGTTTCTGTTTTTCAAATTT
 GTTCTCGCCCTTATACTGGTTTAGTTTCAACAGGACTCTTGTATGTCATGAGTCATATTTCAAAAA
 GTTTGTTACAACAATCCCAATAAATCTTCAGCTTCAATATTTATAATGATGCCTTGCCACTCTACTCCTT
 ATTACAGCCATGTTCACTGCCACTTCCCATGAGATTTCTCCAGTGCCCGCCAGACCTGACTGGAAAAAG
 TCATTATCTTGTGAAGCAGATGTATTTTACCTAAATCCCTTAAACTGGTACATAGAGAGTTTCATGAT
 GATGCATCATTGCCTACTCACTTGTACCTTACGATTTTGGAAAGGAAATAAGTGTCTTCTAAATTT
 CAAGCAATTATAAAGAAGTCTGTTTTCTCCACTCACTTGGCAGAGGGTGAATTGGAAGTCACAT
 ATATGTCTATGAACGGAAGTTAAAAGGGAATTCACATGAAGATGAAATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204441 representing NM_004855
 Red=Cloning site Green=Tags(s)

MRRPLSKGMEPGGGDASLTLHGLQNRSHGKIKLRKRKSTLYFNTQEK SARRRGDLLENIYLLFTLAL
 RILNCFVQTSFVPDEYQSLVSHHMFVNYGYLTWEWTERLRSYTYPLIFASIYKILHLLGKDSVQLLI
 WIPRLAQALLSAVADVRLYSMLKQLENQEVARWVFFCQLCSWFTWYCCTRTL TNTMETVLTIIALFYYP
 EGSKSMNSVKYSSLVALAFIIRPTAVILWTPLLFRHFCQEPKLDLILHHFLPVGFVTL SLSLMIDRIFF
 GQWTLVQFNFLKFNVLQNLGTFYGSHPWHWYFSQGFVILGTHLPFFIHGCYLAPKRYRILLVTVLWTL
 VYSMLSHKEFRFIYPVLPFCMVFCGYSLTHLKTWKKPALSFLFSLNLFALYTGTVHQRGLDVM SHIQK
 VCYNNPNKSSASIFIMPPCHSTPYSHVHCPLPMRFLQC PPDLTGKSHYLDEADVFLNPLNWSHREFHD
 DASLPTHLITFSILEEEISAFLISSNYKRTAVFFHHLPEGRIGSHIYVYERKLGKGFNMKMKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

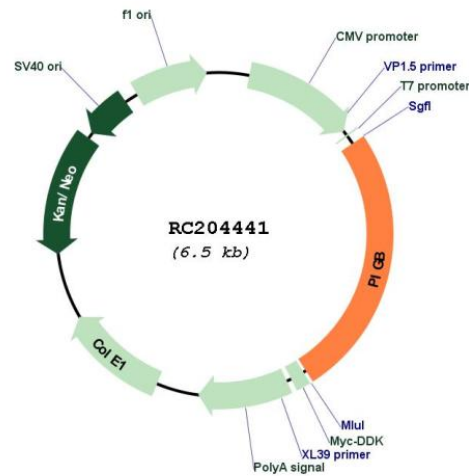
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_004855
ORF Size:	1662 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_004855.2
RefSeq Size:	2227 bp
RefSeq ORF:	1665 bp
Locus ID:	9488
UniProt ID:	Q92521
Cytogenetics:	15q21.3
Domains:	PMP
Protein Families:	Transmembrane
Protein Pathways:	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

MW: 64.9 kDa

Gene Summary: 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]