

Product datasheet for **RG204441**

PIGB (NM_004855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGB (NM_004855) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGB
Synonyms:	DEE80; EIEE80; GPI-MT-III; PIG-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG204441 representing NM_004855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGAGGCCCTAAGCAAGTGCAGCAAGTGGAGCCGGGGGCGGAGATGCCAGCCTCACTTTGCATGGTC
 TCCAGAACCGCTCCACGCAAGATAAAGCTGCGAAAGAGAAAGTCTACCTTGACTTCAACACCCAGGA
 GAAGAGCGCCAGGCGCCGCGGGATCTTCTGGAGAAAATATTTATCTGCTCTTGTTTACCTTAGCTTTA
 CGAATATTAAGTCTTTTTAGTGCAGACAAGTTTTGTTCCAGATGAATACTGGCAGTCTCTTGAAGTTT
 CACATCACATGGTTTTCAATTATGGTTATTTGACTTGGGAATGGACAGAGAGACTGAGGAGTTACACTTA
 TCCCTTAATCTTTGCAAGCATTACAAGATTCTCATCTTTAGGGAAAGATAGTGTTCAGTTGCTGATT
 TGGATTCCTAGACTTGCCCAAGCACTTCTGTCTGTAGCAGATGTGAGACTTTACTCATTAAATGAAGC
 AACTAGAAAATCAGGAAGTGGCAAGATGGGTGTTTTTTGCCAGTTGTGCTCCTGGTTCACATGGTATTG
 CTGTACCAAGAACCTTACAAACACCATGGAACCTGTTCTCACTATAATTGCTCTTTCTACTATCCTTTG
 GAAGGTTCAAAGTCTATGAACAGTGTCAAATACTCATCCCTGGTGGCACTTGCCCTCATAATTCTGCCCA
 CAGCTGTCACTTCTGTGGACACCTTTGCTCTTCAGACATTTCTGTCAAGAACCAAGAAAGCTTGATCTTAT
 TCTACATCATTTTTTACCTGTAGGCTTTGTTACTTTGAGTTTGTCTCTGATGATTGATCGTATTTTTTTT
 GGCCAATGGACTCTGGTCAATTTAATTTTTGAAATTTAACGTGCTGCAGAACTGGGAACATTTTATG
 GTTCTCATCCATGGCACTGGTACTTCAGTCAAGGATTTCCAGTTATCTTGGGTACTCACTTACCCTTCTT
 TATTCATGGCTGCTATCTAGCACAAAGAGATACCGGATACTTTTGGTACTGTGCTGTGGACACTGCTT
 GTTATAGCATGTTGAGCCACAAAGAATTCAGGTTTATTTATCCAGTTTACCATTCTGTATGGTGTCT
 GTGGATACTCATTAAACCCACTGAAAACATGGAAGAAACCAAGCTCTAAGTTTCTGTTTTATCAAATTT
 GTTCTCGCCCTTATACTGGTTTAGTTTCACTCAACGAGGTAAGTCTTGTGTCATGAGTCATATTTCAAAA
 GTTTGTTACAACAATCCCAATAAATCTTCAGCTTCAATATTTATAATGATGCCTTGCCACTCTACTCCTT
 ATTACAGCCATGTTCACTGCCACTTCCCATGAGATTTCTCCAGTGCCCGCCAGACCTGACTGGA AAAAG
 TCATTATCTTGATGAAGCAGATGTATTTACCTAAATCCCTTAAACTGGTACATAGAGAGTTTCATGAT
 GATGCATCATTGCCTACTCACTTGTACCTTACGATTTTGGAAAGGAAATAAGTGTCTTCTAAATTT
 CAAGCAATTATAAAGAAGTCTGTTTTCTCCACTCACTTGGCAGAGGGTGAATTGGAAGTCACAT
 ATATGTCTATGAACGGAAGTTAAAAGGGAATTCACATGAAGATGAAATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204441 representing NM_004855
 Red=Cloning site Green=Tags(s)

MRRPLSKCGMEPGGGDASLTLHGLQNRSHGKIKLRKRKSTLYFNTQEKSARRRGDLLGENIYLLFTLAL
 RILNCFVLQTSFVPEDEYQSLVSHHMFNYGYLTWEWTERLRSYTYPLIFASIYKILHLLGKDSVQLLI
 WIPRLAQALLSAVADVRLYSLMKQLENQVARWVFFCQLCSWFTWYCCTRTLNTMETVLTIIALFYFPL
 EGSKSMNSVKYSSLVALAFIIRPTAVILWTPLLFRHFCQEPKLDLILHHFLPVGFVTLSSLMIDRIFF
 GQWTLVQFNFLKFNVLQNLGTFYGSHPWHWYFSQGFVILGTHLPFFIHGCYLAPKRYRILLVTVLWTL
 VYSMLSHKEFRFIYPVLPFCMVFCGYSLTHLKTWKKPALSFLFLSNLFLALYGLVHQRGLDVMISHIQK
 VCYNPNKSSASIFIMPPCHSTPYSHVHCPLPMRFLQCPPDLTGKSHYLDEADVFLNPLNWSHREFHD
 DASLPHLITFSILEEEISAFLISSNYKRTAVFFHHTLPEGRIGSHIYVYERKLGKGFNMKMKF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004855

ORF Size: 1662 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 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](#)

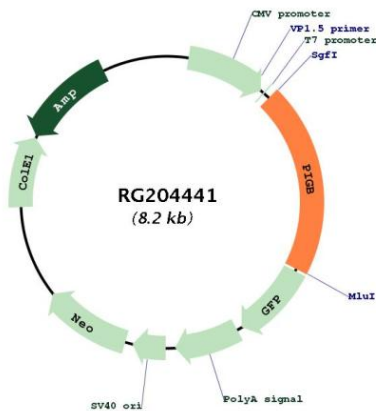
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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
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]

Product images:



Circular map for RG204441