

Product datasheet for **RG219892**

PIGC (NM_002642) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGC (NM_002642) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGC
Synonyms:	GPI2; GPIBD16; MRT62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219892 representing NM_002642 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGCTCAACCTGTGACTAACACCAAGGAGGTCAAGTGGCAGAAGGTCTTGTATGAGCGACAGCCCT
TTCCTGATAACTATGTGGACCGGCGATTCTGGAAGAGCTCCGGAAAAACATCCATGCTCGGAAATACCA
ATATTGGGCTGTGGTATTTGAGTCCAGTGTGGTATCCAGCAGCTGTGCAGTGTGTTGTTTGTGGTT
ATCTGGTGGTATATGGATGAGGGTCTTCTGGCCCCCATTGGCTTTTAGGGACTGGTCTGGCTTCTTCAC
TGATTGGGTATGTTTGTGTTGATCTCATTGATGGAGGTGAAGGGCGGAAGAAGAGTGGGCAGACCCGGTG
GGCTGACCTGAAGAGTGCCTAGTCTTCACTTACTTTCACTTATGGGTTTTACCAGTGTGAAGACCCTT
ACAGAGTCTGTCAGCACTGACACCATCTATGCCATGTCAGTCTTCATGCTGTTAGGCCATCTCATCTTTT
TTGACTATGGTGCCAATGCTGCCATTGTATCCAGCACACTATCCTTGAACATGGCCATCTTTGCTTCTGT
ATGCTTGGCATCACGTCTCCCCGGTCCCTGCATGCCTTCATCATGGTGACATTTGCCATTGAGATTTT
GCCCTGTGGCCATGTTGCAGAAGAACTAAAGGCATGTACTCCCCGGAGCTATGTGGGGTGCACACTGC
TTTTTGCAATTTAGCCGTGGGAGGCCTACTGTCCATTAGTGTGTTGGGAGCCGACTCTTTGCCCTTCT
GCTGATGTCTATCTCATGTCTGTGTCCATTCTACCTCATTGCTTGCAGCTTTTTAAAGAAAACATTCAT
GGCCCTTGGGATGAAGCTGAAATCAAGGAAGACTTGTCCAGGTTCTCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219892 representing NM_002642
Red=Cloning site Green=Tags(s)

MYAQPVTNTKEVKWQKVLIERQPFDPNYVDRRFLEELRKNIHARKYQYWAVVFESSVVIQQLCSVCVFVV
 IWWYMDEGLLAPHWLLGTGLASSLIGYVLFDLIDGGEGRKKSQTRWADLKALVFITFTYGFSPVLKTL
 TESVSTDTIYAMSVFMLLGHILFFDYGANAAIVSSTLSLNMAIFASVCLASRLPRSLHAFIMVTFAIQIF
 ALWPMLQKLLKACTPRSYVGVTLFFAFSAVGGLLSISAVGAVLFAALLMSISCLCPFYLIRLQLFKENIH
 GPWDEAEIKEDLSRFLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002642

ORF Size: 891 bp

OTI Disclaimer: 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_002642.4](#)

RefSeq Size: 1537 bp

RefSeq ORF: 894 bp

Locus ID: 5279

UniProt ID: [Q92535](#)

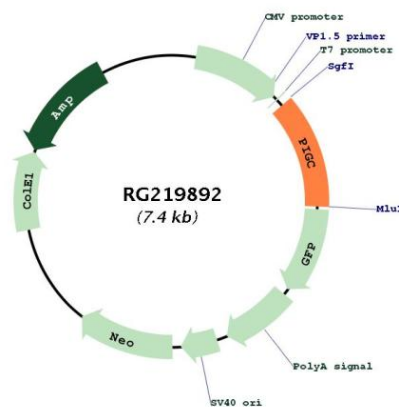
Cytogenetics: 1q24.3

Protein Families: Transmembrane

Protein Pathways: Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways

Gene Summary: This gene encodes an endoplasmic reticulum associated protein that is involved in glycosylphosphatidylinositol (GPI) lipid anchor biosynthesis. The GPI lipid anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. The encoded protein is one subunit of the GPI N-acetylglucosaminyl (GlcNAc) transferase that transfers GlcNAc to phosphatidylinositol (PI) on the cytoplasmic side of the endoplasmic reticulum. Two alternatively spliced transcripts that encode the same protein have been found for this gene. A pseudogene on chromosome 11 has also been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219892