

## Product datasheet for **RG230142**

### **PIGT (NM\_001184730) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIGT (NM_001184730) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGT
Synonyms:	CGI-06; MCAHS3; NDAP; PNH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230142 representing NM\_001184730  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGCTATGCCGCTTGTCTGCTCGCTCTGTTGCTCCTGGGGCCCGGGCTGGTGCCTTGCAG  
 AACCCCCACGCGACAGCCTGCGGGAGGAACTTGTATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCAC  
 ATTCCAGTTCCGACGCGCTGGGATTCCGGAGCTTACGCGGGAAGGAGACTGACCACTACTTTCTGCGC  
 TATGCTGTGCTGCCGCGGGAGGTGGTCTGCACCGAAAACCTACCCCTGGAAGAAGCTCTTGCCCTGTA  
 GTTCCAAGGCAGGCCTCTCTGTGCTGCTGAAGGCAGATCGCTTGTCCACACCAGCTACCACTCCCAGGC  
 AGTGCATATCCGCCCTGTTTGCAGAAATGCACGCTGTACTAGCATCTCCTGGGAGCTGAGGCAGACCCTG  
 TCAGTTGTATTTGATGCCTTCATCACGGGGCAGGAAAGAAAGACTGGTCCCTCTCCGGATGTTCTCCC  
 GAACCTCACGGAGCCCTGCCCTGGCTTACAGAGCCGAGTCTATGTGGACATCACCACTACAACCA  
 GGACAACGAGACATTAGAGGTGCACCCACCCCGACCACTACATATCAGGACGTCATCCTAGGCACTCGG  
 AAGACCTATGCCATCTATGACTTGTGACACCGCCATGATCAACAACCTCGAAACCTCAACATCCAGC  
 TCAAGTGAAGAGACCCCAAGAGATGAGGCCCGCCAGTGCCTTCTGCATGCCAGCGGTACGTGAG  
 TGGCTATGGGCTGCAGAAGGGGAGCTGAGCACACTGCTGTACAACCCACCCATACCGGGCTTCCC  
 GTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCCCTACCATCACCTCCAAGG  
 GCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTCCTGGA  
 GATGCTGATTAGCTGCCGGCAACTCAGTCACCAAGTTTCCATCCAGTTTGAAGCGGGCTGCTGAAG  
 TGGACCGAGTACACGCCAGATCCCAACCATGGCTTCTATGTGAGCCATCTGCTCAGCGCCCTGTGC  
 CCAGCATGGTAGCAGCAAGCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTCCAGTCTC  
 TGATGGCTCTAACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCACACCGGACTTC  
 AGCATGCCCTAACAGTATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTATGGCTCCTTCTACAATC  
 TCCTCACCGAACCTTCCACATCGAGGAGCCCGCACAGGTGGCCTGGCCAAGCGGCTGGCCAACCTTAT  
 CCGGCGCGCCGAGGTGTCCCCCACTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230142 representing NM\_001184730  
 Red=Cloning site Green=Tags(s)

MAAAMPLALLVLLLLGPGGWCLAEPDRSLREELVITPLPSGDVAATFQFRTRWDELQREGDTHYFLR  
 YAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCARNARCTISWELRQTL  
 SVVDFAITGQKKDWSLFRMFRTLEPCPLASESRVYVDITTYNQDNETLEVHPPPTTYQDVLGTR  
 KTYAIYDLDLDTAMINNSRNLNIQLKWKRPPENEAPPVFLHAQRYVSGYGLQKQELSTLLYNTHPYRAFP  
 VLLLDTPWYLRLYVHTLITSKGKPKSYIHYQPAQDRLQPHLLEMLIQLPANSVTKVSIQFERALLK  
 WTEYTPDPNHGFYVSPVLSALVPSMVAAPVDWEEESPLFNSLFPVSDGSNYFVRLYTEPLLVNLPDPDF  
 SMPYNVICLTCTVAVCYGSFYNLLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

**TRTRPLE** – GFP Tag – V

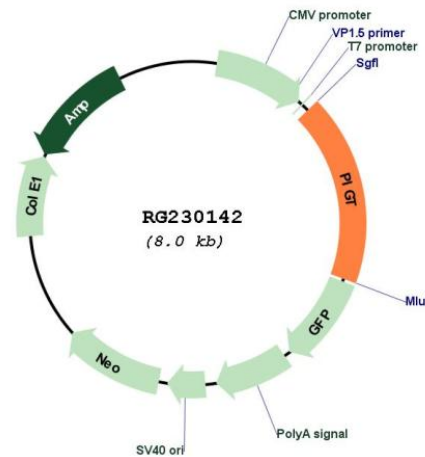
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001184730

ORF Size: 1428 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\\_001184730.3](#)

**RefSeq Size:** 1939 bp

**RefSeq ORF:** 1431 bp

**Locus ID:** 51604

**UniProt ID:** [Q969N2](#)

**Cytogenetics:** 20q13.12

**Protein Families:** Transmembrane

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

**Gene Summary:** This gene encodes a protein that is involved in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This protein is an essential component of the multisubunit enzyme, GPI transamidase. GPI transamidase mediates GPI anchoring in the endoplasmic reticulum, by catalyzing the transfer of fully assembled GPI units to proteins. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]