

Product datasheet for **RG230225**

PIGT (NM_001184728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGT (NM_001184728) 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:

>RG230225 representing NM_001184728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGGCTATGCCGCTTGTCTGCTCGCTCTGTTGCTCCTGGGGCCCGCGGCTGGTGCCTTGCAG
 AACCCCCACGCGACAGCCTGCGGGAGGAACTTGTATCACCCCGTGCCTTCCGGGGACGTAGCCGCCAC
 ATTCCAGTTCCGCACGCGCTGGGATTTCGGAGCTTCAGCGGGAAGGAGTGTCCATTACAGGCTCTTTCCC
 AAAGCCCTGGGGCAGCTGATCTCCAAGTATTCTACGGGAGCTGCACCTGTATTACACAAGGCTTTT
 GGAGGACCCGATACTGGGGGCCACCTTCTGCAGGCCCATCAGACACTGACCACTACTTTCTGCGCTA
 TGCTGTGCTGCCGCGGAGGTGGTCTGCACCGAAAACCTACCCCTGGAAGAAGCTCTTGCCCTGTAGT
 TCCAAGGCAGGCCTCTGTGCTGCTGAAGGCAGATCGCTTGTCCACACCAGCTACCACTCCCAGGCAG
 TGCATATCCGCCCTGTTGCAGAAATGCACGCTGTACTAGCATCTCTGGGAGCTGAGGCAGACCCTGTC
 AGTTGTATTTGATGCCTTCATCAGGGGCAGGAAAGAAAGACTGGTCCCTCTCCGGATGTTCTCCCGA
 ACCCTCACGGAGCCCTGCCCCCTGGCTTACAGAGAGCCGAGTCTATGTGGACATCACCACTACAACCAGG
 ACAACGAGACATTAGAGGTGCACCCACCCCGACCACTACATATCAGGACGTATCCTAGGCACTCGGAA
 GACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAACAACCTCTCGAAACCTCAACATCCAGCTC
 AAGTGGAAAGACCCCGAGAAATGAGGCCCCCGAGTGCCTTCTGCATGCCAGCGGTACGTGAGTG
 GCTATGGGCTGCAGAAGGGGAGCTGAGCACACTGCTGTACAACACCCACCCATACCGGGCCTTCCCGGT
 GCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCCACCATCACCTCAAGGGC
 AAGGAGAACAAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTCCTGGAGA
 TGCTGATTGAGTGCAGGCACTCAGTACCAAGGTTCCATCCAGTTTGGAGCGGCGCTGCTGAAGTG
 GACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTACGCCATCTGTCTCAGCGCCCTTGTGCC
 AGCATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCCTCTTCAACAGCCTGTTCCAGTCTCTG
 ATGGCTCTAACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCA
 CATGCCCTACAACGTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTATGGCTCCTTCTACAATCTC
 CTCACCCGAACCTTCCACATCGAGGAGCCCGCACAGGTGGCCTGGCCAAGCGGCTGGCCAACCTTATCC
 GGCGGCCCGAGGTGTCCCCCACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230225 representing NM_001184728
 Red=Cloning site Green=Tags(s)

MAAAMPLALLVLLLLGPGGWCLAEPDRSLREELVITPLPSGDVAATFQFRTRWDELQREGVSHYRLF
 KALGQLISKYSLRELHLSFTQGFWRTRYWGPPFLQAPSDTDHYFLRYAVLPREVVCTENLTPWKLLPCS
 SKAGLSVLLKADRLFHTSYHSQAVHIRPVCARNARCTSIWELRQTLVVFDAFITGQKKDWSLFRMFSR
 TLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTYQDVILGTRKTYAIYDLLDTAMINNSRNLNIQL
 KWKRPENEAPPVFLHAQRYVSGYGLQKELSTLLYNTHPYRAFVLLLDTPWYLRLYVHTLTITSKG
 KENKPSYIHYQPAQDRLQPHLLEMLIQLPANSVTKYSIQFERALLKWTEYTPDPNHGFYVSPSVLSALVP
 SMVAAKPVDWEEESPLFNSLFPVSDGSNYFVRLYTEPLL VNLPTPDFSMPYNVICLTCTVAVCYGSFYNL
 LTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001184728

ORF Size: 1566 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_001184728.3](#)

RefSeq Size: 2077 bp

RefSeq ORF: 1569 bp

Locus ID: 51604

UniProt ID: [Q969N2](#)

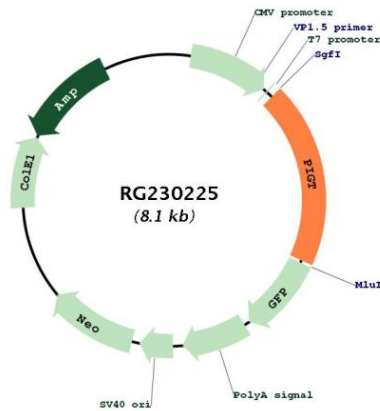
Cytogenetics: 20q13.12

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]

Product images:



Circular map for RG230225