

## Product datasheet for **RC201926**

### **PIGT (NM\_015937) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIGT (NM_015937) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGT
Synonyms:	CGI-06; MCAHS3; NDAP; PNH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201926 representing NM\_015937  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

**ATGGCGGGCTATGCCGTTGCTGCTCGTCTGTGCTCCTGGGGCCCGGGCTGGTGCCTTGACG**  
**AACCCCAACGCGACAGCCTGCGGGAGGAACCTGTATCACCCCGTGCCTTCCGGGACGTAGCCGCCAC**  
**ATTCCAGTTCGACGCGCTGGGATTCCGAGCTTCAGCGGAAGGAGTGTCCATTACAGGCTCTTTCC**  
**AAAGCCCTGGGGCAGTCTCCAAGTATTCTACGGGAGCTGCACCTGCATTACACAAAGGCTTTT**  
**GGAGGACCGATACTGGGGCCACCTTCTGCAGGCCCATCAGGTGCAGAGCTGGGCTGGTTCCA**  
**AGACACTGCTACTGATGTGGATAAATCTTGAAGGAGCTCAGTAATGCCTCTCAGGGATCTTCTGCGCC**  
**TCTCTCAACTTCGACTCCACCAACACAGTCACTCCACTGCCTCTCAAACCCCTGGTCTGGCCA**  
**ATGACACTGACCACTACTTCTGCGCTATGCTGTGCTGCCGGGAGGTGGTCTGCACCGAAAACCTCAC**  
**CCCCTGGAAGAAGCTCTTCCCTGTAGTCCAAGGCAGGCTCTCTGTGCTGCTGAAGGCAGATCGTTG**  
**TTCACACACAGCTACCACTCCCAGGCAGTGCATATCCGCCCTGTTTGCAGAAATGCACGCTGTACTAGCA**  
**TCTCTGGGAGCTGAGGCAGACCCTGTCAGTTGATTTGATGCCTTACACGGGGCAGGAAAGAAAGA**  
**CTGGTCCCTTCCGGATGTTCTCCGAACCTCACGGAGCCCTGCCCTTGGCTTCCAGAGCCGAGTC**  
**TATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACTACAT**  
**ATCAGGACGTATCCTAGGCACTCGAAGACCTATGCCATCTATGACTTGCTTGCACCGCCATGATCAA**  
**CAACTCTCGAAACCTCAACATCCAGCTCAAGTGAAGAGACCCCAAGAGATGAGGCCCCCGAGTGCCC**  
**TTCTGTCATGCCAGCGGTACGTGAGTGGCTATGGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACA**  
**ACACCCACCCATACCGGGCTTCCCGTGTGCTGTGGACACCGTACCCTGGTATCTGCGGCTGTATGT**  
**GCACACCCCTCACCATCACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCGCTGCCAG**  
**GACCGGCTGCAACCCACCTCCTGGAGATGCTGATTACAGTGCCTGGCAACTCAGTCACCAAGGTTTCCA**  
**TCCAGTTTGGCGGGCGTGTGAAGTGGACCGAGTACACACCAGATCCTAACCATGGCTTCTATGTCAG**  
**CCCATCTGCTCCTCAGCGCCCTTGTGCCAGCATGGTAGCAGCAAAGCCAGTGGACTGGGAAGAGAGTCCC**  
**CTTTCAACAGCCTGTTCCAGTCTCTGATGGCTTAACACTTTGTGCGGCTTACACGGAGCCGCTGC**  
**TGGTGAACCTGCCGACCCGACTTCAGCATGCCCTACAACGTGATCTGCCTCACGTGCACTGTGGTGCC**  
**CGTGTGCTACGGCTCTTCTACAATCTCCTCACCGAACCTTCCACATCGAGGAGCCCGCACAGGTGGC**  
**CTGGCCAAGCGGCTGGCCAACCTTATCCGGCGGCCCGAGGTGTCCCCCACTC**

**ACGGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC201926 representing NM\_015937  
Red=Cloning site Green=Tags(s)

MAAAMPLALLVLLLLGPGGWCLAEPPRDSLREELVITPLPSGDVAATFQFRTRWDSSELQREGVSHYRLF  
KALGQLISKYSLRELHLSFTQGFWRTRYWPPFLQAPSGAELWVWFQDTVTDVDKSWKELSNVLSGIFCA  
SLNFIDSTNTVTPTASFKPLGLANDTDHYFLRYAVLPREVVTENLTPWKLLPCSSKAGLSVLLKADRL  
FHTSYHSQAVHIRPVCNARCTISWELRQTLVVVDFAFITGQGKKDWSLFRMFRTLTEPCPLASESRV  
YVDITTYNQDNETLEVHPPPTTYQDVILGTRKYAIYDLLDTAMINNSRNLNQLKWKRPPENEAPPVP  
FLHAQRYVSGYGLQKGELSTLLYNTHPYRAFPVLLLDTPWYLRLVYVHTLTITSKGKENKPSYIHYQPAQ  
DRLQPHLLEMLIQLPANSVTKVSIQFERALLKWTEYTPDPNHGFVYSPSVLSALVPSMVAAPVDWEESP  
LFNSLFPVSDGSNYFVRLYTEPLLNLPTPDFSMPYNVICLTCTVVAVCYGSFYNLLTRTFHIEEPRTGG  
LAKRLANLIRRARGVPPL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3624\\_a01.zip](https://cdn.origene.com/chromatograms/mg3624_a01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_015937

**ORF Size:** 1734 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\\_015937.6](#)
**RefSeq Size:** 2228 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 51604

**UniProt ID:** [Q969N2](#)
**Cytogenetics:** 20q13.12

**Domains:** Gpi16

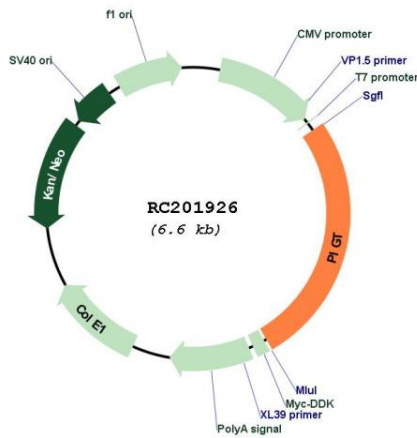
**Protein Families:** Transmembrane

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

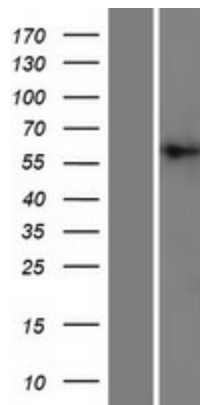
**MW:** 65.7 kDa

**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 RC201926



Western blot validation of overexpression lysate (Cat# [LY414292]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201926 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).