

Product datasheet for **RG201926**

PIGT (NM_015937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGT (NM_015937) 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:

>RG201926 representing NM_015937
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

**ATGGCGGGCTATGCCGCTGCTCGCTCGTCTCTGGGGCCCGGGCTGGTGCCTTGACG
AACCCACGCGACAGCCTGCGGAGGAACTTGTATCACCCTGCTTCCGGGACGTAGCCGCAC
ATTCCAGTTCGCACGCCTGGATTTCGGAGCTTCAGCGGAAGGAGTGTCCATTACAGGCTCTTCCC
AAAGCCCTGGGGCAGCTGATCTCAAGTATTCTACGGGAGCTGCACCTGTATTACACAAGGCTTTT
GGAGGACCGATACTGGGGGCCACCTTCTGCAGGCCATCAGGTGCAGAGCTGGGTCTGTTCCA
AGACACTGCTACTGATGTGGATAAATCTTGAAGGAGCTCAGTAATGTCTCTCAGGGATCTTTCGCC
TCTCTCAACTTCGACTCCACCAACACAGTCACTCCACTGCCTCTCAAACCCCTGGTCTGGCCA
ATGACACTGACCACTCTTCTGCGCTATGCTGTGCTGCCGCGGAGGTGGTCTGCACCGAAAACCTCAC
CCCCTGGAAGAAGCTCTGCCCTGATGTTCCAAGGAGGCTCTCTGTGCTGCTGAAGGCAGATCGTTG
TTCCACACCAGCTACCCTCCCAGGCAGTGCATATCCGCCCTGTTGCAGAAATGCACGCTGTACTAGCA
TCTCCTGGGAGCTGAGGCAGACCCTGTCAGTTGTATTTGATGCCTTCATACGGGGCAGGAAAAGAAAGA
CTGGTCCCTCTTCGGATGTTCTCCGAACCCTCACGGAGCCCTGCCCTGGCTTCAGAGAGCCGAGTC
TATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACTACAT
ATCAGGACGTATCCTAGGCACTCGGAAGCCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAA
CAACTCTCGAAACCTCAACATCCAGCTCAAGTGAAGAGACCCAGAGAATGAGCCCCCAGTGCC
TTCTGCTGCCCAGCGGTACGTGAGTGGCTATGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACA
ACACCCACCCATACCGGGCTTCCCGTGTCTGCTGGACACCGTACCCTGGTATCTCGGCTGTATGT
GCACACCCTCACCATCACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAG
GACCGGCTGCAACCCACCTCCTGGAGATGCTGATTAGCTGCCGCAACTCAGTCACCAAGGTTTCCA
TCCAGTTTGAGCGGGCGCTGCTGAAGTGGACCGAGTACACACCAGATCCTAACCATGGCTTCTATGTCAG
CCCATCTGCTCCTCAGCGCCCTTGTGCCAGCATGGTAGCAGCAAAGCCAGTGGACTGGGAAGAGAGTCCC
CTTTCAACAGCCTGTTCCAGTCTCTGATGGCTCTAACTACTTTGTGCGGCTCTACACGGAGCCGCTGC
TGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAACGTGATCTGCCTCACGTGCACTGTGGTGGC
CGTGTGCTACGGCTCTTCTACAATCTCCTCACCCGAACCTCCACATCGAGGAGCCCCGCACAGGTGGC
CTGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCACTC**

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201926 representing NM_015937
Red=Cloning site Green=Tags(s)

MAAAMPLALLVLLLLGPGGWCLAEPDRSLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLF
KALGQLISKYSLRELHLSFTQGFWRTRYWGPFLQAPSGAELWVWFQDVTVDVDSWKELSNVLSGIFCA
SLNFIDSTNTVPTASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKKLLPCSSKAGLSVLLKADRL
FHTSYHSQAVHIRPVCNRNARCTISWELRQTLVVFDAFITGQKGDWSLFRMFSRTLEPCPLASESRV
YVDITTYNQDNETLEVHPPPTTYQDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPEAPPVP
FLHAQRYVSGYGLQKGEIYTHPYRAFVLLLDTPWYLRLVYHTLITISGKPKPSYIHYQPAQ
DRLQPHLEMLIQLPANSVTKVSIQFERALLKWTETDPNHFYVSPVLSALVPSMVAAPVDWEESP
LFNSLFPVSDGSNYFVRLYTEPLLNLPTPDFSMPYINVICTCTVVAVCYGSFYNLLTRTFHIEEPRTGG
LAKRLANLIRRARGVPPL

TRTRPLE - GFP Tag - V

Restriction Sites:

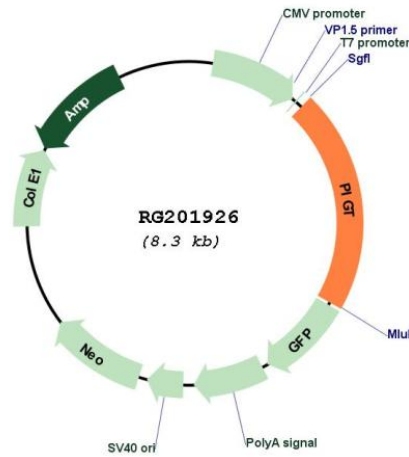
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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_015937.3 , NP_057021.2
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
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]