

Product datasheet for **RG205919**

PIGF (NM_002643) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGF (NM_002643) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGF
Synonyms:	OORS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205919 representing NM_002643 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGATAACGATATCAAGAGACTACTGTATACCCATCTTTTATGCATATTTTCAATTATCCTAAGTG
TCTTCATTCCATCACTCTTCTTGGAGAACTTCTCAATATTGAAACACACTTGACATGGTTGTGCATCTG
TTCTGGTTTTGAACTGCTGTCAATCTAGTACTATATTTAGTAGTAAACCAAATACATCCTCTAAAAGA
AGTTCATTATCACACAAGGTAAGTGGATTTTTGAAATGCTGTATCTACTTTCTTATGTCTTGTCTTCTCT
TTCATGTAATTTTTGTTCTGTATGGAGCACCCTGATAGAGTTGGCATTGAAACATTTTTATTTGCAGT
TATTTTGTCTACTTTTACTACTGTGCCTTGCTTATGTTTGTAGGACCAACCTCAAAGCATGGCTAAGA
GTGTTCCAGTAGAAATGGAGTTACATCCATATGGGAGAATAGTCTCCAGATCACTACAATTTCTAGCTTTG
TAGGAGCATGGCTTGGAGCACTTCTATTCCACTGGATTGGGAAAGACCATGGCAGGTATGGCCCATCTC
CTGTACGCTTGGAGCGACCTTTGGCTACGTGGCTGGCCTGTTATTTACCACCTCTGGATATACTGGAAT
AGAAAGCAACTTACATACAAGAACAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205919 representing NM_002643
 Red=Cloning site Green=Tags(s)

MKDNDIKRLLYTHLLCIFSIILSVFIPSLFLENFSILEHLTWLCICSGFVTAVNLVLYLVVKPNTSSKR
 SSLSHKVTGFLKCCIIYFLMSCFSFHVIFVLYGAPLIELALETFLFAVILSTFTTVPCLCLLGPNLKAWLR
 VFSRNGVTSIWENSLQITTISSFVGAWLGALPIPLDWERPWQVWPISCTLGATFGYVAGLVISPLWIYWN
 RKQLTYKNN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002643

ORF Size: 657 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_002643.4](#)

RefSeq Size: 1009 bp

RefSeq ORF: 660 bp

Locus ID: 5281

UniProt ID: [Q07326](#)

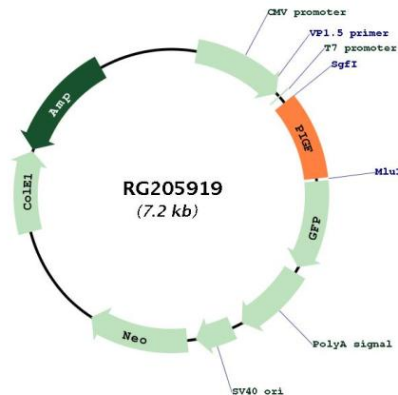
Cytogenetics: 2p21

Protein Families: Transmembrane

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

Gene Summary: This gene encodes a protein involved in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor, a glycolipid containing three mannose molecules in its core backbone, is found on many blood cells where it serves to anchor proteins to the cell surface. The encoded protein and another GPI synthesis protein, PIGO, function in the transfer of ethanolaminephosphate to the third mannose in GPI. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205919