

## Product datasheet for **RC206054**

### PIGF (NM\_173074) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PIGF (NM\_173074) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PIGF  
**Synonyms:** OORS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC206054 representing NM\_173074  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAGATAACGATATCAAGAGACTACTGTATACCCATCTTTTATGCATATTTTCAATTATCCTAAGTG  
 TCTTCATTCCACTCTTCTGGAGAACTTCTCAATATTGAAACACACTTGACATGGTTGTGCATCTG  
 TTCTGGTTTTGAACTGCTGCACTAGTACTATATTTAGTAGTAAACCAAATACATCCTCTAAAAGA  
 AGTTCATTATCACACAAGGTAAGTGGATTTTTGAAATGCTGTATCTACTTCTTATGTCTTTTCTCT  
 TTCATGTAATTTTGTCTGTATGGAGCACCCTGATAGAGTTGGCATTGAAACATTTTATTTGCAGT  
 TATTTTGTCTACTTTACTACTGTGCCTTGCTTATGTTTGTAGGACCAACCTCAAAGCATGGCTAAGA  
 GTGTTCCAGTAGAAATGGAGTTACATCCATATGGGAGAATAGTCTCCAGATCACTACAATTTCTAGCTTTG  
 TAGGAGCATGGCTTGGAGCACTTCTATTTCCACTGGATTGGGAAAGACCATGGCAGATGACAGTAGAAAAG  
 AAAACGTAGCACTTATAGATCTCTCCATGTACCCTGCAGGGGGCTTGGTACTGTGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC206054 representing NM\_173074  
 Red=Cloning site Green=Tags(s)

MKDNDIKRLLYTHLLCIFSIILSVFIPSLFLENFSILETHLTWLCICSGFVTAVNLVLYLVKPNNTSSKR  
 SSLSHKVTGFLKCCIYFLMSCFSFHVIFVLYGAPLIELALETFLFAVILSTFTTVPCLCLLGNLKAWL  
 VFSRNGVTSIWENSLQITTISSVFGAWLGALPIPLDWERPWQMTVERKRSTYRSLHVPICRGLGTVK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6319\\_d05.zip](https://cdn.origene.com/chromatograms/mk6319_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173074

**ORF Size:** 618 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\\_173074.3](#)

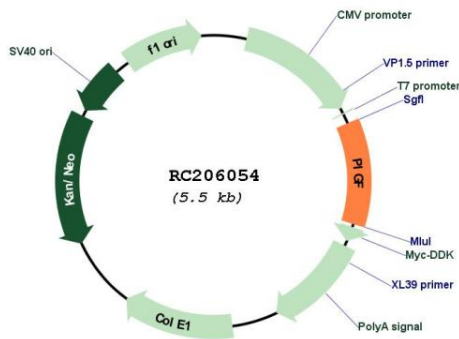
**RefSeq Size:** 1083 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 5281

**UniProt ID:** [Q07326](#)  
**Cytogenetics:** 2p21  
**Protein Families:** Transmembrane  
**Protein Pathways:** Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways  
**MW:** 23.2 kDa  
**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 RC206054