

## Product datasheet for **RC203040**

### PIGP (NM\_153682) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PIGP (NM\_153682) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PIGP  
**Synonyms:** DCRC; DCRC-S; DEE55; DSCR5; DSRC; EIEE55; PIG-P  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC203040 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGAAAATTCACCGTCGCCATTGCCAGAAAGAGCGATTTATGGCTTTGTTCTTTCTTAAGCTCCC  
AATTTGGCTTCATACTTTACCTCGTGTGGGCTTTATTCTGAATCTGGCTAACTCTTAGGTTAAAC  
CTATTGGCCTCAAAAATTTGGCAGTTGCATTACCTGTCTACCTCCTTATTGCTATAGTAATTGGCTAC  
GTGCTCTGTTTGGGATTAACATGATGAGTACCTCTCCACTCGACTCCATCCATACAATCACAGATAACT  
ATGCAAAAATCAACAGCAGAAGAAATACCAAGAGGAGGCCATTCCAGCCTTAAGAGATATTCTATTAG  
TGAAGTAAACCAATGTTCTTTCTGCAGCCAAAGAACTTTACACCAAAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC203040 protein sequence  
Red=Cloning site Green=Tags(s)  
MVENSPSPLPERAIYGFVLFSSQFGFILYLWAFIPESWLNLSLGLTYWPQKYWAVALPVYLLIAIVIGY  
VLLFGINMMSTPLDSIHTITDNYAKNQKQKYQEEAIPALRDISISEVNQMFFLAAKELYTKN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6434\\_b06.zip](https://cdn.origene.com/chromatograms/mk6434_b06.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_153682

**ORF Size:** 402 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\\_153682.3](#)

**RefSeq Size:** 804 bp

**RefSeq ORF:** 405 bp

**Locus ID:** 51227

**UniProt ID:** [P57054](#)

**Cytogenetics:** 21q22.13

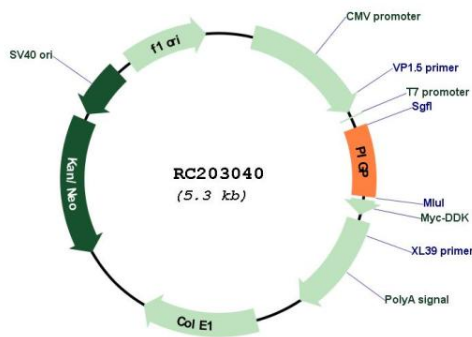
**Protein Families:** Transmembrane

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

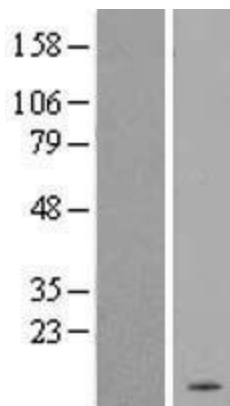
**MW:** 15.4 kDa

**Gene Summary:** This gene encodes an enzyme involved in the first step of glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells that serves to anchor proteins to the cell surface. The encoded protein is a component of the GPI-N-acetylglucosaminyltransferase complex that catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc to phosphatidylinositol (PI). This gene is located in the Down Syndrome critical region on chromosome 21 and is a candidate for the pathogenesis of Down syndrome. This gene has multiple pseudogenes and is a member of the phosphatidylinositol glycan anchor biosynthesis gene family. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RC203040



Western blot validation of overexpression lysate (Cat# [LY407008]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203040 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).