

Product datasheet for **RC201906**

PIGV (NM_017837) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PIGV (NM_017837) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PIGV |
| Synonyms: | GPI-MT-II; HPMRS1; PIG-V |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC201906 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCCCCAGGACCCATCCCGAAGGAGGTGCTGAGGTTTGCAGTCAGCTGCCGTATCCTGACTCTGA
 TGCTGCAGGCCCTCTCAATGCCATCATCCAGATCACCATGCAGAAGCCTTCTCTCCTCCTCGCCTGGC
 CCCCTCAGGCTTTGTGGACCAACTCGTGAAGGTCTTCTGGGCGCCTGTCTCACTGGGATGCTGAACAC
 TTCTTGTTCAATTGCTGAGCATGGCTACCTGTATGAGCACAACCTTGCCTTCTTCTGGTTTCCCCTGG
 CCCTGCTGGTGGGACTGAACTGTTGAGACCTTACGGGGTTACTGAGTCTACGCAGTTGCCTGCTGAT
 TTCGGTAGCATCACTCAATTTCTGTTCTTTCATGTTGGCTGCAGTTGCACCTTCATGACCTGGGTTGCTG
 GTTTTGCAGTGTCCCACCAGTCTTTTATGCAGCTCTGCTTTTCTGTCTCAGCCCTGCCAATGTCTTCC
 TGGCAGCTGGTTACTCAGAAGCTTTGTTGCCCTCCTGACATTCAGTCCATGGGCAGCTGGAGAGGGG
 CCGAGTCTGGACTAGTGTACTCCTTTTGCCTTTGCCACTGGGGTACGCTCCAACGGGCTGGTCAGTGT
 GGCTTCTCATGATTCTCAATGCCAAGGCTTTTTCTCTTCTAACGATGCTGAATCCTCTGAGACAGC
 TCTTTAAGCTGATGGCCTCTCTGTTTCTGTGCGGTGTTCACTTGGCCTTCCCTTTGCCCTCTTTAGTA
 TTATGCCTACACCAATTCTGTCTGCCAGGCTCAGCCGCCCCATTCTGAGCCTTTGGTACAGTTAGCT
 GTAGACAAGGGCTACCGATTGCAGAGGGAAATGAACCGCCTTGGTGCTTCTGGGATGTTCCACTAATAT
 ACAGCTATATCCAGGATGTCTACTGGAATGTTGGCTTTTGAATACTATGAGCTCAAGCAGGTGCCAA
 TTTTCTACTGGCTGCACCAGTGGCTATACTGGTGGCTGGGCAACTTGGACATACGTGACCACTCACCT
 TGGCTCTGCCTTACACTTGGGCTGCAAAGGAGCAAGAACAATAAGACCCTAGAGAAGCCCGATCTGGAT
 TCCTCAGTCTCAGGTGTTGTGTACGTGGTCCACGCTGCAGTGTGCTGCTGTTGGAGGCTGTGAT
 GCATGTTCAAGTCTCACCAGGTTTTGGGCTCCTCCACTCCTATTATGTACTGGTTTCCAGCTCACTTG
 CTTCAGGATCAAGAGCCGCTGTTGAGATCCTTAAAGACTGTGCCTTGAAGCCTCTTGCAGAGGACTCCC
 CACCAGGACAAAAGTCCCAGAAATCCTATCATGGGACTTTTGTATCACTGGAAAACCTGTTCTCCAGT
 CACACGATACATTCTAGGCTACTTCTGACTTACTGGCTCCTGGGACTACTCCTACATTGCAACTTCTCT
 CCTTGACA

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201906 protein sequence
 Red=Cloning site Green=Tags(s)

MWPQDPSRKEVLRFAVSCRILTMLQALFNAIIPDHAEAFSPRLAPSGFVDQLVEGLLGGLSHWDAEH
 FLFIAEHGYLYEHNFAFFPGFPLALLVGTLLRPLRGLLSLRCLLISVASLNFLFFMLAAVALHDLGCL
 VLHCPHQSFYAALLFCLSPANVFLAAGYSEALFALLTFSAMQLERGRVWTSVLLFAFATGVRNGLVSV
 GFLMHSQCQGFSSLTMLNPLRQLFKLMASLFLSVFTLGLPFALFQYYAYTQFCLPGSARPIPEPLVQLA
 VDKGYRIAEGNEPPWCFWDVPLIYSYIQDVYWNVGFLLKYELKQVPNFLLAAPVAIVAVATWTYVTTTP
 WLCLTLGLQRSKNNKTLEKPDGLFSPQVFVYVHAAVLLLFGGLCMHVQVLRFLGSSTPIMYWFPAHL
 LQDQEPLLRSLKTVPWKPLAEDSPPGQKVPVPRNPIMGLL YHWKTCSPVTRYILGYFLTYWLLGLLLHCNFL
 PWT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6308_g02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_017837

ORF Size: 1479 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_017837.4](#)

RefSeq Size: 2424 bp

RefSeq ORF: 1482 bp

Locus ID: 55650

UniProt ID: [Q9NUD9](#)

Cytogenetics: 1p36.11

Domains: DUF409

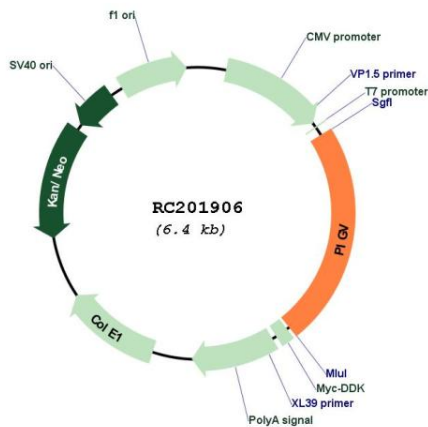
Protein Families: Transmembrane

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

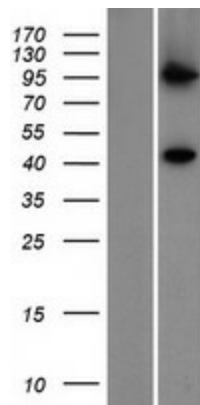
MW: 55.7 kDa

Gene Summary: This gene encodes a mannosyltransferase enzyme involved in the biosynthesis of glycosylphosphatidylinositol (GPI). GPI is a complex glycolipid that functions as a membrane anchor for many proteins and plays a role in multiple cellular processes including protein sorting and signal transduction. The encoded protein is localized to the endoplasmic reticulum and transfers the second mannose to the GPI backbone. Mutations in this gene are associated with hyperphosphatasia cognitive disability syndrome. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RC201906



Western blot validation of overexpression lysate (Cat# [LY413509]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201906 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).