

Product datasheet for **SC113888**

PIGV (NM_017837) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGV (NM_017837) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGV
Synonyms:	GPI-MT-II; HPMRS1; PIG-V
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113888 sequence for NM_017837 edited (data generated by NextGen Sequencing)

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ATGTGGCCCCAGGACCCATCCCGGAAGGAGGTGCTGAGGTTTGCAGTCAGCTGCCGTATC
CTGACTCTGATGCTGCAGGCCCTCTTCAATGCCATCATCCCAGATCACCATGCAGAAGCC
TTCTCTCCTCCTCGCCTGGCCCCCTCAGGCTTTGTGGACCAACTCGTGAAGGCTTCTG
GGCGGCTGTCTCACTGGGATGCTGAACACTTCTTGTTCATTGCTGAGCATGGCTACCTG
TATGAGCACAACCTTTCCTTCTTCCCTTGGCCCTGCTGGTGGGGACTGAA
CTGTTGAGACCCCTACGGGGTTACTGAGTCTACGCAGTTGCCTGCTGATTTTCGGTAGCA
TCACTCAATTTCTGTTCTTCATGTTGGCTGCAGTTGCACCTTCATGACCTGGGTTGTCTG
GTTTTGCACTGTCCCACCAGTCTTTTATGCAGCTCTGCTTTTCTGTCTCAGCCCTGCC
AATGTCTTCTGGCAGCTGGTACTCAGAAGCTTTGTTTGGCCCTCCTGACATTCAGTGCC
ATGGGGCAGCTGGAGAGGGGCCGAGTCTGGACTAGTGTACTCCTTTGCCCTTGGCCACT
GGGGTACGCTCCAACGGGCTGGTCAAGTGTGGCTTCTCATGCATTCTCAATGCCAAGGC
TTTTTCTCTTCTAACGATGCTGAATCCTCTGAGACAGCTCTTAAAGCTGATGGCCTCT
CTGTTTCTGTGCGGTGTTACACTTGGCCTTCCCTTGGCCCTTTCAGTATTATGCCTAC
ACCCAATTCTGTCTGCCAGGCTCAGCCCCCCATTCTGAGCCTTTGGTACAGTTAGCT
GTAGACAAGGGCTACCGATTGCAGAGGAAATGAACCGCCTTGGTGCTTCTGGGATGTT
CCACTAATATACAGCTATATCCAGGATGTCTACTGGAATGTTGGCTTTTTGAAATACTAT
GAGCTCAAGCAGGTGCCAATTTTCTACTGGCTGCACCACTGGCTATACTGGTTGCCCTGG
GCAACTTGGACATACGTGACCACTACCCCTTGGCTCTGCCTTACACTTGGGCTGCAAAGG
AGCAAGAACAATAAGACCCTAGAGAAGCCCGATCTTGGATTCTCAGTCTCAGGTGTTT
GTGTACGTGGTCCACGCTGCAGTGTCTGTGTTTGGAGGTCTGTGCATGCATGTTTCAG
TTCTCACCAGGTTTTTGGGCTCCTCCTCCTATTATGTACTGGTTTCCAGCTCACTTG
CTTCAGGATCAAGAGCCGCTGTTGAGATCCTTAAAGACTGTGCCTTGAAGCCTCTTGCA
GAGGACTCCCCACCAGGACAAAAGGTCCCCAGAAATCCTATCATGGGACTTTTGTATCAC
TGGAAAACCTGTTCTCCAGTCACACGATACATTCTAGGCTACTTCTGACTTACTGGCTC
CTGGGACTACTCCTACATTGCAACTTCTGCCTTGGACATGA
    
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Clone variation with respect to NM_017837.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_017837 unedited
GCATTTTGTAAATACGACTCACTATTAGGGCGGCCGGAATTCGCACCAGGTGGCCTGGTG
GGGCTCTGCAGGCTCCCTCGGGAGTGGTCTTGGGCCGTGGCCCTCTGGGAGGCCTGAG
GGAGCTCAATCCTGGTAGCAACACCCCTGAATTCCTGGTGGTGAAGGATGTGGCCCCAG
GACCCATCCCGGAAGGAGGTGCTGAGGTTTGCAGTCAGCTGCCGTATACTGACTCTGATG
CTGCAGGCCCTCTTCAATGCCATCATCCCAGATCACCATGCAGAAGCCTTCTCTCCTCCT
CGCCTGGCCCCCTCAGGCTTTGTGGACCAACTCGTGAAGGTCTTCTGGGCGGCCTGTCT
CACTGGGATGCTGAACACTTCTTGTTCATTGCTGAGCATGGCTACCTGTATGAGCACAAC
TTTGCCTTCTTCTGTTTCCCTTGGCCCTGCTGGTGGGACTGAACTGTTGAGACCC
TTACGGGGGTTACTGAGTCTACGCAGTTGCCTGCTGATTTCCGGTAGCATCACTCAATTTT
TTGTTCTTCATGTTGGCTGCAGTTGCACCTTCATGACCTGNGTTGTCTGGTTTTGCACTGT
CCCCACCAGTCTTTTATGCAGCTCTGCTTTTCTGTCTCAGCCCTGCCAATGTCTTCTG
GCAGCTGGTACTCAGAAGCTTTGTTTGGCCCTCCTGACATTCAGTGCCATGGGGCAGCTG
GAGAGGGGCCGAGTCTGGACTAGTGTACTCCTTTGCCCTTGGCCACTGGNGTACGCTCC
AACGGGCTGGTCAAGTGTGGCTTCTCATGCATTCTCATGCCAGGGCTTNTCTCTCTCT
ACGATGTGAATCCTCTGAGACAGCTCTTAAAGCTGATGGCCTCTCTGTTTCTTGTCCGN
GGTCACACTTGGGCTTCCCTTTTGGCCCTTCTCAGTATTATGCCTACACCCACTCTGTCT
GCCG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017837 unedited ATCTCTGNACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTGGAAAA AAGGTCCCACCTTATTACTGCCACTACACTGTTTCAGGCCTATACCATCTTGTGTGGACTG TTACCAGCCTGTCAGCTAATGCCTTTGATGAAATTTACACTTCAATAAATTGACATTTAA ATTTACACACAGGTCAATGGTAGGTTTAAAGACTGTCTCTGCTATGTTGATTGACTAGACA GATCCAGGTGTATTTTAACTTGAATACGACAATCTTCACTTACAGAGAAAAATAGTTGT CTAAAATTTGCCCTAGCCAGGACCAGAAGGGGCTCTCTAGTGTCTGACACTTCTCCATT CCTGACCAGCTTTCAAAGAGAAAAGAGAAAGATTATAATGGACACAGTAATGATCCCAGGG CAGCAGAGGCAGTCCAATGTGTATTTTTACTTTTCAGACCCCTGGGTTAAGTTGGCTTCC AACCTGTCCCTGGAGAGTCCAGGTCATGTCCAAGGCAGGAAGTTGCAATGTANGAGTAGT CCCAGGAGCCAGTAAGTCAGGAAGTAGCCTAGAATGTATCGTGTGACTGGAGAACAGGTT TTCCAGTGATACAAAAGTCCCATGATAGGATTTCTGGNGACCTTTTGTCTGGTGGGGGA GTCCTCTGCAAGAGGCTTNCAAGCACAGTCTTTAAGGATCTCAACAGCGGGCTCTTGAT CCTGAAAGCAGTGAGCTGGGAACCAGTACATANTAGGGAGTGGAGAGCCCCAAAACCTG TGAGAACCCTGACATGCATGCACAGAACNCAACAGCAGCAGCACTGCAGCGTGGACCA CGTACACAAAACCTGAGACTGNAGAATCCAGATCGGCTCTCTAGGNNCTNAATTGTCT GCTCTTTGCANCCAGTGTTAGGCAAAGCAGGNNTGANTGTCACGTATGTTTCAGNTGCC AGNCACCAGTTAGCCACTGGTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_017837
Insert Size:	2430 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_017837.2</u> , <u>NP_060307.2</u>
RefSeq Size:	2380 bp
RefSeq ORF:	1482 bp
Locus ID:	55650
UniProt ID:	<u>Q9NUD9</u>
Cytogenetics:	1p36.11
Domains:	DUF409

Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>