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Product datasheet for SC329677

PIGV (NM_001202554) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: PIGV (NM_001202554) Human Untagged Clone

Tag: Tag Free

Symbol: PIGV

Synonyms: GPI-MT-II; HPMRS1; PIG-V

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC329677 representing NM_001202554.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTGGCCCCAGGACCCATCCCGGAAGGAGGTGCTGAGGTTTGCAGTCAGCTGCCGTATCCTGACTCTG
ATGCTGCAGGCCCTCTTCAATGCCATCATCCCAGATCACCATGCAGAAGCCTTCTCTCCTCCTCGCCTG
GCCCCCTCAGGCTTTGTGGACCAACTCGTGGAAGGTCTTCTGGGCGGCCTGTCTCACTGGGATGCTGAA
CACTTCTTGTTCATTGCTGAGCATGGCTACCTGTATGAGCACAACTTTGCCTTCTTTCCTGGTTTCCCC
TTGGCCCTGCTGGTGGGGACTGAACTGTTGAGACCCTTACGGGGGTTACTGAGTCTACGCAGTTGCCTG
CTGATTTCGGTAGCATCACTCAATTTCTTGTTCTTCATGTTGGCTGCAGTTGCACTTCATGACCTGGGT
TGTCTGGTTTTGCACTGTCCCCACCAGTCCTTTTATGCAGCTCTGCTTTTCTGTCTCAGCCCTGCCAAT
GTCTTCCTGGCAGCTGGTTACTCAGAAGCTTTGTTTGCCCTCCTGACATTCAGTGCCATGGGGCAGCTG
GAGAGGGGCCGAGTCTGGACTAGTGTACTCCTCTTTGCCTTTGCCACTGGGGTACGCTCCAACGGGCTG
GTCAGTGTTGGCTTCCTCATGCATTCTCAATGCCAAGGCTTTTTCTCTTCTCTAACGATGCTGAATCCT
CTGAGACAGCTCTTTAAGCTGATGGCCTCTCTGTTTCTGTCGGTGTTCACACTTGGCCTTCCCTTTGCC
CTCTTTCAGTATTATGCCTACACCCAATTCTGTCTGCCAGGCTCAGCCCGCCCCATTCCTGAGCCTTTG
GTACAGTTAGCTGTAGACAAGGGCTACCGGATTGCAGAGGGAAATGAACCGCCTTGGTGCTTCTGGGAT
GTTCCACTAATATACAGCTATATCCAGGATGTCTACTGGAATGTTGGCTTTTTGAAATACTATGAGCTC
AAGCAGGTGCCCAATTTTCTACTGGCTGCACCAGTGGCTATACTGGTTGCCTGGGCAACTTGGACATAC
GTGACCACTCACCCTTGGCTCTGCCTTACACTTGGGCTGCAAAGGAGCAAGAACAATAAGACCCTAGAG
AAGCCCGATCTTGGATTCCTCAGTCCTCAGGTGTTTGTGTACGTGGTCCACGCTGCAGTGCTGCTGCTG
TTTGGAGGTCTGTGCATGCATGTTCAGGTTCTCACCAGGTTTTTGGGCTCCTCCACTCCTATTATGTAC
TGGTTTCCAGCTCACTTGCTTCAGGATCAAGAGCCGCTGTTGAGATCCTTAAAGACTGTGCCTTGGAAG
CCTCTTGCAGAGGACTCCCCACCAGGACAAAAGGTCCCCAGAAATCCTATCATGGGACTTTTGTATCAC
TGGAAAACCTGTTCTCCAGTCACACGATACATTCTAGGCTACTTCCTGACTTACTGGCTCCTGGGACTA
CTCCTACATTGCAACTTCCTGCCTTGGACATGA

Restriction Sites: SgfI-MluI

ACCN: NM_001202554

Insert Size: 1482 bp

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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:	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_001202554.1
RefSeq Size:	2750 bp
RefSeq ORF:	1482 bp
Locus ID:	55650
UniProt ID:	Q9NUD9
Cytogenetics:	1p36.11
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] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.