

Product datasheet for **SC317265**

PIGA (NM_020473) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGA (NM_020473) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGA
Synonyms:	GPI3; MCAHS2; PIG-A; PNH1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020473, the custom clone sequence may differ by one or more nucleotides ATGGCGATCGTGGAAAGCAGCCAGTTGTGGTTTACAGTTGTAAGTACCAGAGTTGGTGGAA ATTCTGAGGTGCTTCCAGAAAACCTTATTATTTTATGTGAGCCTTCAGTAAAATCTTTG TGTGAAGGATTGAAAAGGCTATTTTCCAAGTGAAGTCAGGGACATTGCCAGCTCCAGAA AACATCCATAACATAGTAAAGACTTTCTACACCTGGAGGAATGTTGCAGAAAGAAGTAA AAGGTATATGACCGGGTATCAGTGAAGCTGTGTTGCCAATGGACAAACACTGGACAGA CTTATTTCTCACTGCGGCCAGTAAACAGGCTACATCTTTGCTTTGTTGGCAGTTTTCAAC TTCTCTTCTCATTCTTCTGAGATGGATGACTCCAGATTCTATCATTGATGTTGCAATA GATGCCACTGGGCCACGGGGTGCCTGGACTAATAACTATTCTCACAGTAAAAGAGGGGT GAGAATAATGAGATATCTGAAACCAGG
Restriction Sites:	Please inquire
ACCN:	NM_020473
Insert Size:	2867 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_020473.2](#), [NP_065206.2](#)

RefSeq Size: 2867 bp

RefSeq ORF: 510 bp

Locus ID: 5277

UniProt ID: [P37287](#)

Cytogenetics: Xp22.2

Protein Families: Transmembrane

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

Gene Summary: This gene encodes a protein required for synthesis of N-acetylglucosaminyl phosphatidylinositol (GlcNAc-PI), the first intermediate in the biosynthetic pathway of GPI anchor. The GPI anchor is a glycolipid found on many blood cells and which serves to anchor proteins to the cell surface. Paroxysmal nocturnal hemoglobinuria, an acquired hematologic disorder, has been shown to result from mutations in this gene. Alternate splice variants have been characterized. A related pseudogene is located on chromosome 12. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and uses an alternate start codon, compared to variant 1. The resulting isoform (3) has a distinct and shorter N-terminus, compared to isoform 1.