

## Product datasheet for **SC109568**

### 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
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020473, the custom clone sequence may differ by one or more nucleotides

```
ATGGAACTCACCGGATCGATTTGCTTAGTGGTATAATACCTGAACTCTGTCAGAAATATCCAGATTTAA
ATTTTCATAATTGGAGGAGAGGGACCAAAGAGAATCATTTTGAAGAAGTTCGGGAAAGATACCAGCTGCA
TGACAGGGTGCCTTTTTGGGAGCTTTAGAACAAGGATGTTAGAAATGTCTTAGTTCAAGGACATATT
TTTCTGAATACCTCCCTTACTGAAGCATTCTGCATGGCGATCGTGAAGCAGCCAGTTGTGGTTTACAGG
TTGTAAGTACCAGAGTTGGTGAATTCCTGAGGTGCTCCAGAAAACCTTATTATTTATGTGAGCCTTC
AGTAAAACTTTGTGTAAGGATTGAAAAGGCTATTTTCCAAGTGAAGTCAGGGACATTGCCAGCTCCA
GAAAACATCCATAACATAGTAAAGACTTCTACACCTGGAGGAATGTTGCAGAAAGAACTGAAAAGGTAT
ATGACCGGTATCAGTGAAGCTGTGTTGCCAATGGACAACGACTGGACAGACTTATTTCTCACTGCGG
CCCAGTAACAGGCTACATCTTTGCTTTGTTGGCAGTTTTCAACTTCTCTCCTCATTTTCTTGAGATGG
ATGACTCCAGATTCTATCATTGATGTTGCAATAGATGCCACTGGGCCACGGGGTGCCTGGACTAATAACT
ATTCTCACAGTAAAAGAGGGGTGAGAATAATGAGATATCTGAAACCAGGTAG
```



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_020473 unedited  GTTCAAATTTTGTAAACGACTCACTATAGGGCGGCCGCGCATTTCGGCACGAGGGGGAAC  TCACCGGTAATAGAGGACACATCTTAACTGGGTTGCTCTAAGAAGTATGTCTAAACC  GTCTCAGCATGGCCTGTAGAGGAGGAGCTGGGAATGGCCACCGTGCCTCAGCTACACTCT  CTCGGGGATCGATTTGCTTAGTGGTATAATACCTGAACTCTGTGAGAAATATCCAGATTT  AAATTTCAATAATTGGAGGAGAGGGACCAAGAGAATCATTTTGAAGAAGTTCGGGAAAAG  ATACCAGCTGCATGACAGGGTGCCTCTTTGGGAGCTTTAGAACAACAAGGATGTTAGAAA  TGCTTAGTTCAAGGACATATTTTCTGAATACCTCCCTTACTGAAGCATTCTGCATGGC  GATCGTGAAGCAGCCAGTTGTGGTTTACAGGTTGTAAGTACCAGAGTTGGTGAATTCC  TGAGGTGCTTCCAGAAAACCTTATTATTTTATGTGAGCCTTCAGTAAAATCTTTGTGTGA  AGGATTGGAAGGCTATTTTCCAAGTCAAGGACATTGCCAGCTCCAGAAAACAT  CCATAACATAGTAAAGACTTTCTACACCTGGAGGAATGTTGCAGAAAGAACTGAANAGGT  ATATGACCGGGTATCAGTGAAGCTGTGTGCCAATGGACAAACGACTGGACAGACTTAT  TTCTCACTGCGGCCAGTAACAGGCTACATCTTTGCTTTGTTGGCAGTTTCAACTTCT  CTTCTCATTTTCTTGAGATGGATGACNTCCGATTCTATCATTGATGGTGAATAGATGC  CACTGGGCCCGGNGTGCCTGGACTAATAACTATTCTCACAGTAAAGAAGGGGGTGAGC  ATTATGAGATATCTGAAACCAGGTAGAAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_020473 unedited  TATGACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTATCAAATGTCAT  TCTGGTCTTTATTTTGGACATGTAGCATGTTTTAACAAATCAGTTTTTCATAGGCAACC  TTTTGAAACATCAAAGAAATACAATATATTTTCAAAATTTCTCATCTGTAATTC  ACTTTAAATCAACTAAGTAGCAGGGTAGAGCAATGTGTTCCATATACCGACCAGTGCA  AACTGACAGTTACAATTAAGGTATCCAGAAAGGTTGAAAATTAAGATTTACGTGAAACAA  ATTTACTTCCATTTGTTAAAAAAGAAAAATAAATTTGCAAAATCACATGTTTTACAG  GCAAAGGCAACTAACTTTAGATCTTATTTCCATCTCAAATAAATGACAGTTAAGAATTA  AATGACAATTTAAAAAATTAAGCAAAAATATAAGGAAAAAATGGTGGCATGCCTCTAAA  ACCTGTTGAATAGAATAATGGCCAAATATTACAGTTTCTCACTTTCCTATGAATACTGGC  ACTGTTTATTTTATGTTTATATGTGAGTTTCTATGCATAAAAAATCCAGTAAGACTGAAT  AGTTTAAAGATCAGTCCATTTTCTCCAACAAAACCCCTAACTTCTAGATTTTAAAAAT  GCACCTTGCTTTTGCATTNTAGTACAAAACAAAACAAAATATATTTCTTTTATATCAGT  GCAACCGTTAATAGGCATGTTATTTTTTAAAAGTAATAAATTTGTGAATGGTGTGCTATT  NTTAAAATCCTTACAGAATCACACACTGTCAGATCTATGTAGTGCACCCACAGTGCCTTA  TTGTTTGAATTACAGTCTTTTCTCACAACCTTAGAGTNCAAGATCATATACCACATGTG  ATAATTGGGGTAAAAACCATGCTCTGGCACACATGACAGTATACATCCCCCAGACGNTCT  AAATTCAGTAGTGCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020473
<b>Insert Size:</b>	3090 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_020473.1](#), [NP\\_065206.1](#)

**RefSeq Size:** 2867 bp

**RefSeq ORF:** 81 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.