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Product datasheet for SC109567

PIGA (NM_002641) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGA (NM_002641) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGA
Synonyms:	GPI3; MCAHS2; PIG-A; PNH1
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002641, the custom clone sequence may differ by one or more nucleotides

ATGGCCTGTAGAGGAGGAGCTGGGAATGGCCACCGTGCCTCAGCTACACTCTCTCGGGTTAGCCCTGGAA
GTCTTTACACATGTAGAACCCGTACCCATAATATATGCATGGTATCTGACTTTTTCTACCCAAATATGGG
AGGCGTGGAAAGCCACATTTACCAGCTCTCTCAGTGCCTGATTGAAAGAGGGCATAAGGTTATAATTGTC
ACCCATGCTTATGGAAATCGAAAAGGCATCCGTTACCTCACCAGTGGCCTCAAAGTCTATTACTTGCCTC
TGAAAGTCATGTACAACCAGTCTACAGCCACGACCCTCTTTCACAGTCTGCCATTGCTCAGGTACATATT
TGTTCGGGAGAGAGTCACGATAATCCATTCACATAGTTCTTTTTCTGCTATGGCCCATGATGCTCTCTTC
CACGCCAAGACAATGGGGCTTCAGACAGTCTTCACGGACCATTCCCTTTTTGGATTTGCTGATGTCAGCT
CGGTGCTTACAAACAAGCTTCTAACCGTGTCTCTTTGTGATACAAACCACATCATTTGTGTGTCTTATAC
TAGTAAGGAAAATACTGTACTAAGAGCAGCACTGAATCCTGAAATAGTGTCCGTCATTCCTAATGCTGTA
GATCCTACTGACTTCACTCCAGACCCATTTAGAAGGCATGATAGTATAACTATTGTTGTTGTCAGCAGAC
TTGTTTACAGAAAAGGGATCGATTTGCTTAGTGGTATAATACCTGAACTCTGTCAGAAATATCCAGATTT
AAATTTCATAATTGGAGGAGAGGGACCAAAGAGAATCATTTTGGAAGAAGTTCGGGAAAGATACCAGCTG
CATGACAGGGTGCGTCTTTTGGGAGCTTTAGAACACAAGGATGTTAGAAATGTCTTAGTTCAAGGACATA
TTTTTCTGAATACCTCCCTTACTGAAGCATTCTGCATGGCGATCGTGGAAGCAGCCAGTTGTGGTTTACA
GGTTGTAAGTACCAGAGTTGGTGGAATTCCTGAGGTGCTTCCAGAAAACCTTATTATTTTATGTGAGCCT
TCAGTAAAATCTTTGTGTGAAGGATTGGAAAAGGCTATTTTCCAACTGAAGTCAGGGACATTGCCAGCTC
CAGAAAACATCCATAACATAGTAAAGACTTTCTACACCTGGAGGAATGTTGCAGAAAGAACTGAAAAGGT
ATATGACCGGGTATCAGTGGAAGCTGTGTTGCCAATGGACAAACGACTGGACAGACTTATTTCTCACTGC
GGCCCAGTAACAGGCTACATCTTTGCTTTGTTGGCAGTTTTCAACTTCCTCTTCCTCATTTTCTTGAGAT
GGATGACTCCAGATTCTATCATTGATGTTGCAATAGATGCCACTGGGCCACGGGGTGCCTGGACTAATAA
CTATTCTCACAGTAAAAGAGGGGGTGAGAATAATGAGATATCTGAAACCAGGTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002641 unedited
GGTTCACATTAGTATACGACTCACTATAGGGCGGCCGCGAATCGGCACGAGGGGNACACT
GNGCGGCCATGGNAACTCACCGGTAATAGAGGACACATCTCTTAACTGGGTTGCTCTAAG
AACTGATGTCTAAACCGTCTCAGCATGGCCTGTAGAGGAGGAGCTGGGAATGGCCACCGT
GCCTCAGCTACACTCTCTCGGGGATCGATTTGCTTAGTGGTATAATACCTGAACTCTGTC
AGAAATATCCAGATTTAAATTTCATAATTGGAGGAGAGGGACCAAAGAGAATCATTTTGG
AAGAAGTTCGGGAAAGATACCAGCTGCATGACAGGGTGCGTCTTTTGGGAGCTTTAGAAC
ACAAGGATGTTAGAAATGTCTTAGTTCAAGGACATATTTTTCTGAATACCTCCCTTACTG
AAGCATTCTGCATGGCGATCGTGGAAGCAGCCAGTTGTGGTTTACAGGTTGTAAGTACCA
GAGTTGGTGGAATTCCTGAGGTGCTTCCAGAAAACCTTATTATTTTATGTGAGCCTTCAG
TAAAATCTTTGTGTGAAGGATTGGAAAAGGCTATTTTCCAACTGAAGTCAGGGACATTGC
CAGCTCCATAAAACATCCATAACATAGTAAAGACTTTCTACACCTGGAGGAATGTTGCAC
AAAGAACTGAAAAAGTATATGACCGGGTATCAGCGGAAGCTGTGCTGCCAATGGACAAAC
GACTGGACAGACTTATTTTCACTGTGGGCCCATAACAGGCTACATCTTTGCCTTGTTGGC
AGGTTTTCACTTCCTCTTCCTCATTTCTTGAGATGGAGACTCCCGATTCTATCCTTGGAT
GTTGCAATAAATGCCACTGGGCCCCCCGGGTGCCCTGGACTAATACCTATTTTCCCAGAC
ATAAGAGGGGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002641 unedited
CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTATCAAAATGTCATTCTGGTCT
TTATTTTTGGACATGTAGCATGTTTTAACAAATCAGTTTTTCATAGGCAACCTTTTGAAA
CATCAAAAGAAATACAATATATTTTTCACAAATTTCTCATCACTGTAAATTCACTTTAAA
ATCAACTAAGTAGCAGGGTAGAGCAATGTGTTTCCATATACCGACCAGTGCAAACTGACA
GTTACAATTAAGGTATCCAGAAAGGTTGAAAATTAAGATTTACGTGAAACAAATTTACTT
CCATTTGTTAAAAAAAAGAAAAATAATAATTTGCAAATCACATGTTTTACAGGCAAAGGC
AACTAACTTTAGATCTTATTTCCATCTCAAATAAATGACAGTTTAAGAATTAAATGACAA
TTTAAAAAAATTAAGCAAAAATATAAGGAAAAAATGGTGGCATGCCTCTAAAACCTGTTG
AATAGAATAATGGCCAAATATTACAGTTTCTCACTTTCCTATGAATACTGGCACTGTTTA
TTTCATGTTTATATGTGAGTTTCTATGCATAAAAATCCCAGTAAGACTGAATAGTTTAAA
GATCAGTCCATTTTTCTCCAACAAAACCCCTAACTTCTAGATTTTAAAAATTGCACTCTT
GCTTTTGCATTTTAGTACAAACAAAACACAAATATATTTCTTTTATATCAGTGCAACCAG
TTAATAGGCATGGTATTTTTTAAAAAGTAATAAAATTTGTGAATGGTGTCATTNTTAAAA
ATCCTATACAGAATCANCACACTGTCAGAATCTATGTAGTGCACCCACAGTGCCTNNATG
TTTGAATNACAGTCCTTTTCTACANAACCTTNAGAGTCAAGATNCATATACCACATGTGG
TAANTGGGGGTAAAACCCTGCTCTGGCACACATGACGTATAACTCACCCAGACGTNCTAA
TTNCACTAGTGCATATACA

Restriction Sites: NotI-NotI

ACCN: NM_002641

Insert Size: 2800 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:	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_002641.1, NP_002632.1
RefSeq Size:	3589 bp
RefSeq ORF:	1455 bp
Locus ID:	5277
UniProt ID:	P37287
Cytogenetics:	Xp22.2
Domains:	Glycos_transf_1
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 (1) represents the longest transcript and encodes the longer isoform (1).