

Product datasheet for SC110315

PIGN (NM_012327) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGN (NM_012327) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGN
Synonyms:	MCAHS; MCAHS1; MCD4; MDC4; PIG-N
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110315 sequence for NM_012327 edited (data generated by NextGen Sequencing)

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ATGCTGCTGTTCTTTACTTTGGGATTGCTTATACATTTTGTGTTCTTCGCCTCCATCTTT
GACATTTATTTTACATCTCCTTTGGTTCATGGAATGACTCCTCAGTTTACACCATTGCCT
CCTCCAGCGAGAAGATTAGTGTTGTTTGTGCTGATGGCCTTCGAGCAGATGCACTTTAC
GAATTAGATGAAAATGAAAACCTAGAGCACCGTTTATTAGGAATATCATAATGCATGAA
GGCAGCTGGGGCATATCTCATAACGTGTGCCAACAGAATCTCGGCCAGGTCATGTAGCT
CTGATAGCTGGGTTTTATGAAGATGTCAGTGCAGTTGCCAAAGGATGGAAGGAAAATCCT
GTAGAGTTTGATTCTCTTTTAAATGAAAGTAAATACACATGGAGCTGGGGAAGCCCAGAT
ATCCTGCCTATGTTTGC AAAAGGTGCTAGTGGAGACCAGTTTATACATATAGTTATGAT
GCTAAAAGAGAGGATTTTGGTGCTCAAGATGCAACAAAACCTGGATACGTGGGTTTTTGAT
AATGTTAAGGACTTCTTTCATCATGCCAGAAAACACCAGTCTTTGTTTTCTAAAATAAAT
GAAGAGAAAATAGTTTTTTTCTTACATTTATTAGGAATAGATACAAAACGGACATGCTCAT
CGACCATCCTCGAGAGACTACAAGGACAATATTA AAAAAGTTGATGATGGAGTTAAAGAA
ATCGTGTCTATGTTTAAACCATTCTATGGAAAATGATGGGAAAACAACATTTATCTTTACC
TCTGACCATGGAATGACAGACTGGGGTCCCATGGGGCTGGTCATCCTTCAGAGACTTTA
ACTCCTTAGTCACTTGGGGAGCTGGAATCAAGTATCCCCAAAGAGTATCAGCTCAGCAA
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ATTTTAAAGAAAAGCAAGATCTTATATAAAACACAGAAAGTTTGACGAAGTGGTCTCCCTT
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TTCTTTTTGGGCGTCAATGTTGTTATTGGTTTTGTGGGATGGATATCTTATGCCTCCTTG
TTGATCATCAAGTCTCATTCCAACCTTATAAAAAGGTGTTAGTAAAGAAGTGAAGAAACCA
AGCCATCTCCTGCCTTGTAGTTTTGTAGCTATTGGCATTTTAGTAGCATTTTTTCTGCTG

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ATTC AAGCCTGTCCCTGGACATATTATGTATATGGTTTGTGCCACTGCCAATATGGTAT
 GCGGTTCTAAGAGAATTTCAAGTTATTCAGGACCTTGTGTATCAGTGTTGACCTATCCT
 CTGAGCCATTTTGTGGGTACCTGTTAGCCTTTACCCTGGGAATTGAAGTATTAGTTCTC
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 CTCACTCGGCTATGGACTCGAGCAAAGATGACCTACTGAGTTGGACTTTCTTCTTTG
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 AGAAAAGATAGCTTTATAAAGGAAGAGCTATTGGTACATCTATTACAGGTGCTGAGCACA
 GTGCTCTCCATGTATGTTGTGTATAGCACCCAGAGTAGTCTACTCAGGAAGCAAGGACTG
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 TTTGTCTGGATAAACATAGAACAAGAACTCTACAACAATCTGGTGTGCTGTAACAA
 AAGCTCACCAGTATCCAGTTCTTATAATACTGATATAACTCAGTTTCGACAGCTATAT
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 TTTCTATTGTTCTCGTCATATCAGACATTATGGCTTTGCATTTTTTCTTCTTGGTCAAG
 GATTATGGCAGCTGGCTTGATATTGGGACAAGCATCAGCCAYTATGTGATTGTATGTCC
 ATGACCATCTTTTGGTGTCTCAATGGCCTGGCCAGCTGCTCACAACGAAGAAACTC
 AGACTATGTGGCAAACCCAAAAGTCACTTCATGTGA

Clone variation with respect to NM_012327.5
 685 c=>g;741 c=>t;939 t=>c;1245 t=>c;1377 t=>c;1752 g=>a;1853 c=>t;1962 g=>a;2010
 t=>c;2682 c=>y

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012327 unedited
 GTCAAATATTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGAATACCCTCC
 CGGCTATCGCTTCAGTGGGTAGAGGGGACCACTGCCCGAGAGCTTTAATGGAGCTGGGTC
 CTGCCTTCGCGCTGAGGAGCCCTCGTTTTTCGAGATCAGGCCTGACCGGGATAAGCTCCAG
 CTGTTCTTGAAGACTAATTAGTTACACTGGATATGCTGCTGTTCTTTACTTTGGGATTGC
 TTATACATTTTGTGTTCTTCGCCTCCATCTTTGACATTTATTTTACATCTCCTTTGGTTC
 ATGGAATGACTCCTCAGTTTACACCATTGCCTCCTCCAGCGAGAAGATTAGTGTGTTTGG
 TTGCTGATGGCCTTCGAGCAGATGCACTTTACGAATTAGATGAAAATGGAACTCTAGAG
 CACCGTTTATTAGGAATATCATAATGCATGAAGGCAGCTGGGGCATATCTCATAACAGTG
 TGCCAACAGAATCTCGCCAGGTCATGTAGCTCTGATAGCTGGGTTTTATGAAGATGTCA
 GTGCAGTTGCCAAAGGATGGAAGGAAAAATCCTGTAGAGTTTGATTCTCTTTTTAATGAAA
 GTAATACANCATGGAGCTNNGGGGAAGCCAGATATCCTGCCTATGTTTGCCAAAGGTGC
 TAGTGGAGACCAGTTTATACATATAGTTATGATGCTAAAAGAGAGGATTTTGGTGTCTCA
 AGATGCAACAACTGGATACCGTNGTTTTGANTATGTTAAGGACTTCTTTCATCATGC
 CAGAAACACCAGTCTTTTGTGTTTCTAANATAATGAAGAGAAATAGTTTTTTTCTACATT
 TATTAGAATAGATACAACGGACATGCTCATCGACATCCTCGAGAGACTACAGACATATNA
 AAAAGTTGTGATGGAGTAAGGAATCGGGTCTTGTTTACCATTCTATGGATG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012327 unedited GGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTGGCAAACACTTTTTTTTATTGAA GCTCTTAAAAATACACCCTGACTGTCTAACAAAACAGTGCTGAAAGCTGATAAATATT GACGGAGGCACCTGGTGATTTCCCTCCAGCTCAGCCACAGCAATGACTCTGGATGCCATC AGCACTGCCCCACAGGCATATGCTCTCCTCTGGGTATGTGGGAAGTTGTGCGACTGGGG ACCAGATTGCTGCAGGTGCTCTCAACATCACTGGGAAGAGCTGCCAGCCAAAGGAAAAA ATGAAAAAGGAGAATGCCTTCTATGCTTTTCCACAGATAAATCACTATTTTCATGCCTG CAAAACCTATAAAAAAAGAAGCTCCTTTGTTCCAGATAACCTGTCAATTCGGAATTC CAATACCATTTTCTTACAGGAGTAGAATATACTATATATCCATATCCATCTTCTTATT GAAGCCTTGATGAGATTTTAGCTTAAAAGGAGAATCAGGATCCAGATGCTGAATGGTGCT TCAGCAACCTCACATGAAGTGACTTTTGGGTTTGCACATAGTCTGAGTTTCTTCGTTGT GAGCAGCTGGCCAGGCCATTGAGGAACACCAAAAAGATGGTCATGGACATGACANTCAC ATAATGGTGATGCTTGCCCAATCAAGCCAGCTGCCATAATCCTTGACCAAGAAGAA AAAATGCACAGCCATAATGCCTGATATGACGAGAACAAATGAGAAAAAGCTCTTTGACGA TAACTGAGTAGTCAACCTGACCTGCCTCATAGCACACCTATCATGACACAAGGGACTAAA ATCCTTACATTTACGCCTCCCATCAAAAAGACTGAACACAGTCCGAAGCAATAGACC AAGCCAGATCAAAGCTGTTAATAGAAGCTTATTTCCAGTCCCAAAATGCTGTCACTATAT TAATACAGNATAAGCCCTCACGAGCCTCCAGATAGCTGCGAC
Restriction Sites:	NotI-NotI
ACCN:	NM_012327
Insert Size:	3520 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_012327.3</u> , <u>NP_036459.1</u>
RefSeq Size:	4751 bp
RefSeq ORF:	2796 bp
Locus ID:	23556
UniProt ID:	<u>O95427</u>
Cytogenetics:	18q21.33
Domains:	PigN

Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	<p>This gene encodes a protein that is involved in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This protein is expressed in the endoplasmic reticulum and transfers phosphoethanolamine (EtNP) to the first mannose of the GPI anchor. Two alternatively spliced variants, which encode an identical isoform, have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.</p>