

## Product datasheet for **RC222950**

### **PIGN (NM\_012327) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIGN (NM_012327) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGN
Synonyms:	MCAHS; MCAHS1; MCD4; MDC4; PIG-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222950 representing NM\_012327  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCTGTTCTTTACTTTGGGATTGCTTATACATTTTGTGTTCTTCGCCTCCATCTTTGACATTTATT  
 TTACATCTCCTTTGGTTCATGGAATGACTCCTCAGTTTACACCATTGCCTCCTCCAGCGAGAAGATTAGT  
 GTTGTGTTGTTGCTGATGGCCTTCGAGCAGATGCACTTTACGAATTAGATGAAAATGGAACTCTAGAGCA  
 CCGTTTATTAGGAATATCATAATGCATGAAGGCAGCTGGGGCATACTCATAACAGTGTGCCAACAGAAT  
 CTCGGCCAGGTCACTGAGCTCTGATAGCTGGGTTTTATGAAGATGTCAGTGCAGTTGCCAAAGGATGGAA  
 GGAAAATCCTGTAGAGTTTGATTCTCTTTTTAATGAAAGTAAATACACATGGAGCTGGGGAAAGCCAGAT  
 ATCCTGCCTATGTTTGCCAAAGGTGCTAGTGGAGACCAGTTTATACATATAGTTATGATGCTAAAAGAG  
 AGGATTTTGGTGTCAAGATGCAACAAAAGTGGATACGTGGGTTTTGATAATGTTAAGGACTTCTTTCA  
 TCATGCCAGAAAACACAGTCTTTGTTTTCTAAAATAAATGAAGAGAAAATAGTTTTTTTCTTACATTTA  
 TTAGGAATAGATACAAACGGACATGCTCATCGACCATCCTCGAGAGACTACAAGGACAATATTA AAAAAG  
 TTGATGATGGAGTTAAAGAAATCGTGTCTATGTTTAAACATTTCTATGGAATGATGGGAAAACAACATT  
 TATCTTTACCTCTGACCATGGAATGACAGACTGGGGTTCCCATGGGGCTGGTCACTCTCAGAGACTTTA  
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 CATTTTGAAGAGTGGAGATTGGAGAAGTGGAAAGAGGCTAGATGCAATCAGGCTGATATTGCACCATT  
 GATGACTTCCCTTATTGGAGTCCCTTTCTCTTAACTCAGTGGGAATCCTTCTGTGGATTATCTTAAC  
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 TGCAAGGAGCTAATTCATCTTGCATTGAAAGGATTGTCCTATTATCACACATATGACAGATTCTTTTTGG  
 GCGTCAATGTTGTTATTGGTTTTGTGGGATGGATATCTTATGCCTCCTGTTGATCATCAAGTCTCATT  
 CAACCTTATAAAAGGTGTAGTAAAGAAGTGAAGAAACCAAGCCATCTCCTGCCTGTAGTTTTGTAGCT  
 ATTGGCATTAGTAGCATTTTTCTGCTGATTCAAGCCTGTCCCTGGACATATTATGTATATGGTTTTGT  
 TGCCACTGCCAATATGGTATGCGGTTCTAAGAGAATTTCAAGTATTTCAGGACCTGTTGTATCAGTGT  
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 TATGGACTCGAGCAAAGATGACCTCACTGAGTTGGACTTCTTCTCTTTGCTCCTGGCAGTGTCCCACT  
 GATGCCGTTGTAGGTCGAAAGCCAGACATCTTTCTAGTATGGGTGCAGGCTTGCTGGTCTTCTGTTA  
 TCCTGTGTGTTGTAACATCTCTCATGAAAAGAAAAGATAGCTTTATAAAGGAAGAGCTATTGGTACATC  
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 GCAAGGACTGCCTCTCATGAATCAAATTATTAGCTGGGCAACATTAGCCTCTTCTTGGTTGTGCCACTA  
 CTGAGTTCTCCAGTCTCTTTCCAGGATTGTTCCAGCATACTTCTTTCATTGATGTCAACCTACCTACTTC  
 TAAGCACAGGGTATGAAGCTCTCTTTCCACTAGTGTGCTTGTGTTGATGTTGTCTGGATAAACATAGA  
 ACAAGAAACTCTACAACAATCTGGTGTGCTGTAACAAAAGCTCACCAGTATCCAGTTCTCTTATAAT  
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 TAGTGACAGCATTTTTTGGAACTGGAAATATAGCTTCTATTAACAGCTTTGATCTTGCCTGTCTATTG  
 CTTTCTGACTGTGTTCACTCCTTTATGATGGGAGCCCTGATGATGTGGAAGATTTAATCCCTTTGTT  
 CTTGTTATGTGTGCTTTTGAAGCAGTTCAGTTGACTACTCAGTTATCGTCAAAAAGCCTTTTTCTCATTG  
 TTCTCGTCATATCAGACATTATGGCTTTCAGTTTTTCTTCTTGGTCAAGGATTATGGCAGCTGGCTTGA  
 TATTGGGACAAGCATCAGCCATTATGTGATTGTCATGTCCATGACCATCTTTTGGTGTCTCAATGGC  
 CTGGCCAGCTGCTCACAACGAAGAACTCAGACTATGTGGCAAAACCAAAGTCACTTTCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RC222950 representing NM\_012327  
 Red=Cloning site Green=Tags(s)

MLLFFTLGLLIHFVFFASIFDIYFTSPLVHGMPQFTPLPPPARRLVLFVADGLRADALYELDENGNSRA  
 PFIRNIIMHEGSWGISHTRVPTESRPGHVALIAGFYEDVSAVAKGWKENPVEFDSL FNESKYTWSWSPD  
 ILPMFAKAGASGDHYYTYSYDAKREDFGAQDATKLDTWVFDNVKDFHHARNQSLFSKINEEKIVFFLHL  
 LGIDTNGHAHRPSSRDYKDNIIKVDGKVEIVSMFNHFYGNKGKTTFFIFTSDHGMTDWSHGAGHPSETL  
 TPLVTVGAGIKYPORVSAQQFDDAFLKEWRLNWKRLDYNQADIAPLMTSLIGVFPPLNSVGILPVDYLN  
 NTDLFKAESMFTNAVQILEQFKVKMTQKKEVTL PFLFTPFKLLSDSKQFNILRKARSYIKHRKFDEVVSL  
 CKELIHLALKGLSYYHTYDRFFLGVNVVIGFVGWISYASLLIIKSHSNLIKGSKEVKKPSHLLPCSFVA  
 IGI LVAFFLLIQACPWTYYVYGLLPLPIWYAVLREFQVIQDLVSVLTYPLSHFVGYLLAFTLGIEVLV  
 SFFRYMLTAGLTAFAAWPFLTRLWTRAKMTLSWTFSSLLAVFPLMPVVGRKPDIFLVMGAGLLVLL  
 SLCVVTSLMKRKDSFIKEELLVHLLQVLSTVLSMYVVYSTQSSLLRKQGLPLMNQIISWATLASSLVVPL  
 LSSPVLQRLFSILLSTMSTYLLSTGYEALFPLVLSCLMFVWINIEQETLQQSGVCKQKLTSIQFSYN  
 TDITQFRQLYLDIRRAFFLVFFLVTAFFGTGNIASINFDLASVYCFLTVFSPFMMGALMMWKILIPFV  
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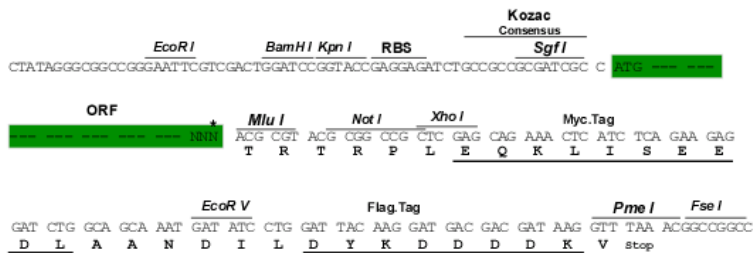
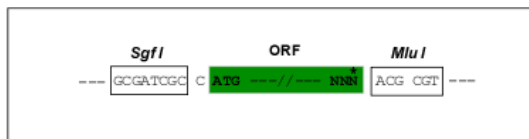
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6258\\_e01.zip](https://cdn.origene.com/chromatograms/mk6258_e01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



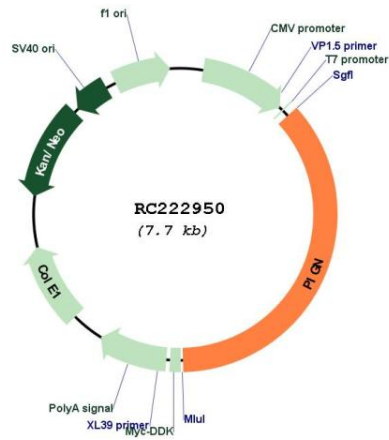
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_012327

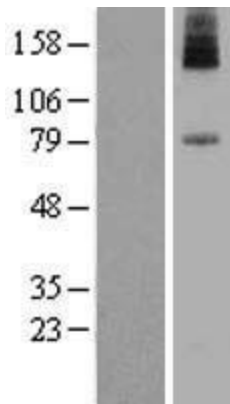
**ORF Size:** 2793 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012327.6</a>
<b>RefSeq Size:</b>	4751 bp
<b>RefSeq ORF:</b>	2796 bp
<b>Locus ID:</b>	23556
<b>UniProt ID:</b>	<a href="#">O95427</a>
<b>Cytogenetics:</b>	18q21.33
<b>Domains:</b>	PigN
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
<b>MW:</b>	105.6 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC222950



Western blot validation of overexpression lysate (Cat# [LY415771]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222950 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).