

Product datasheet for **SC127461**

PIGS (NM_033198) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGS (NM_033198) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGS
Synonyms:	GPIBD18
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_033198, the custom clone sequence may differ by one or more nucleotides

ATGCGCGCGCGCGGGCTTGC GGCTACACACTAGAGTGCGCCGGGGGCAAGCGCGCCCTCTTCTTGG
CTGCGGTGGCCATCGTGCTGGGGCTACCGCTCTGGTGGAAGACCACGGAGACCTACCGGGCTCTGTGCC
T TACTCCCAGATCAGTGGCCTGAATGCCCTTCAGCTCCGCCCTATGGTGCTGTCACTGTCGTGTTTACG
CGGGAGTCAGTGCCCTGGACGACCAGGAGAAGCTGCCCTTACC GTTGTGCATGAAAGAGAGATTCTCT
TGAAATACAAAATGAAAATCAAATGCCGTTTCCAGAAGGCCATATCGAGGGGCTTGGACCATGAGGAGGA
GGCCCTGTATCGGGCAGTGTGCAAGAGGCAGAAGCCATGTTAGATGAGCCTCAGGAACAAGCGGAGGGC
TCCCTGACTGTGACGTGATATCTGAACACTCCTCACTTCTTCCCAGGACATGATGAGCTACATTGGGC
CCAAGAGGACAGCAGTGGTGCGGGGGATAATGCACCGGGAGGCCTTTAAATCATTGGCCGCCGCATAGT
CCAGGTGGCCAGGCCATGTCTTTGACTGAGGATGTGCTTGTCTGCTGCTCTGGCTGACCACCTTCAGAG
GACAAGTGGAGCGCTGAGAAGAGGCGGCTCTCAAGTCCAGCTTGGGCTATGAGATCACCTTCAGTTTAC
TCAACCCAGACCCCAAGTCCCATGATGTCTACTGGGACATTGAGGGGGCTGTCCGCGCTATGTGCAACC
TTTCTGGAATGCCCTCGGTGCCGCTGGCAACTTCTCTGTGGACTCTCAGATTCTTTACTATGCAATGTTG
GGGGTGAATCCCCGCTTTGACTCAGCTTCTCCAGCTACTATTTGGACATGCACAGCCTCCCCCATGTCA
TCAACCCAGTGGAGTCCCGGCTGGGATCCAGTGCTGCCTCCTTGTACCCTGTGCTCAACTTTCTACTCTA
CGTGCTGAGCTTGCACTCACCGCTGTACATTCAGGACAAGGATGGCGCTCCAGTGGCCACCAATGCC
TTCCATAGTCCCCGCTGGGGTGGCATTATGGTATATAATGTTGACTCCAAAACCTATAATGCCTCAGTGC
TGCCAGTGAGAGTCGAGGTGGACATGGTGCGAGTGATGGAGGTGTTCTTGGCACAGTTGCGGTGTCTCTT
TGGGATTGCTCAGCCCCAGCTGCCTCCAAAATGCCTGCTTTCAGGGCTACGAGTGAAGGGCTAATGACC
TGGGAGCTAGACCGGCTGCTCTGGGCTCGGTCA GTGGAGAACCTGGCCACAGCCACCACCCTTACCT
CCCTGGCGCAGCTTCTGGGCAAGATCAGCAACATTGT CATTAAAGGACGAGTGGCATCTGAGGTGTACAA
GGCTAGTAGTGCCGTCCAGAAGTCGGCAGAAGGATTGGCGTCTGGGCACCTGGCATCTGCCCTTTGTCCGC
AGCCAGAAGCTGTGACATCCTCTGAGCTTGACCTTCTTTGACCCGTCACTCTCCACCTCTTTTATTTC
CTGATGACCAGAAGTTTGCCATCTACATCCCACTCTTCTGCTATGGCTGTGCCATCCTCTGTCCCT
GGTCAAGATCTTCTGGAGACCCGCAAGTCTGGAGAAAGCCTGAGAAGACAGACTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033198 unedited

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NGGTGCAAAATTTGTATACGACTCATATAGCGGCCGCGNAATTCGCACCGGTGGNCCGGA
GCAGCCGGAGCTAGCATGGCGGCCGCCGGGGCTGCGGTACACACCTAGAGGTGGCCCGG
GGCAAGCGCGCCGCCCTCTTCTTCGCTGCGGTGCCATCGTGTGGGGCTACCGCTCTGG
TGGAAGACCAACGAGACCTACCGGGCCTCGTTGCCTTACTCCCAGATCAGTGGCCTGAAT
GCCCTTCAGTCCGCTCATGGTGCCTGTCACTGTCTGTGTTTACGCGGGAGTCAGTGCCC
CTGGACGACCAGGAGAAGCTGCCCTTACCCTGTGTGCATGAAAGAGAGATTCTCTGAAA
TACAAAAATGAAAATCAAATGCCGTTTCCAGAAGGCCTATCGGAGGGCTTTGGACCATGAG
GAGGAGGCCCTGTATCGGGCAGTGTGCAAGAGGCAGAAGCCATGTTAGATGAGCCTCAG
GAACAAGCGGAGGGCTCCCTGACTGTGTACGTGATATCTGAACACTCCTCACTTCTTCCC
CAGGACATGATGAGCTACATTGGGCCAAGAGGACAGCAGTGGTGCGGGGGATAATGCAC
CGGGAGGCCCTTAAACATATTGGCCGCCGATAGTCCAGGTGGCCACAGCCATGTCTTTG
ACTGAGGATGTGCTTGTCTGCTCTGGCTGACCACCTTCCAGAGGACAAGTGGAGCGCT
GAGAAGAGCGGCCCTCTCAAGTCCAGCTTGGGCTATGAGATCACCTTCAGTTTACTCAAC
CCAGACCCCAAGTCCCATGATGTCTACTGGGACATTGAGGGGGGCTGTCGGCGCTATGT
GCAACCTTTCCCTCATGCTCCGTGCTGCCCTGGNCACTTCTCTGTGGACTCTCAGATTCT
TACTATGCATGGTGGGG
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033198 unedited</p> <pre> CCACACCCCAANAANAACCCACCCACACACAAANTTTTACTTGCNACGCGGCCGCATAC TAGANCGNGTTTTTTTTTTTTTTTTTTTATCATTCCAATTCATATTCAGCCAGTGTAT TAAGAGCCTACTACAGCCAGAACACTTTACATGCTGATCACATTTACTCCTCACAACCA TCTTGTAAAGGGGAAACATCATCAGTGCCATTTGAACAAATGTAAAACTGAGGCTCAGAG AGATTCAATACCTTATCCAAAGCTCTCCAGACAATAAGTGCAAAAACAAGGATTTGAATT CAGGACTGTTTGATTCCAAATCTGGAACCTTTCTGGAACCTCTGACACACACACACACA CACACACACACACACACACAGCACCATGTCCTGAGCTGCTGCCTACTGGACTCCCGCC AGACTGCACCTGACAGACAAAGCCAATATGAGGGAGGGGAGTGAGGGAGAAAGTCCAC AGGTGACCAACGCGCGTTCTTTTCATGACAATACGGGCTATGGCTGCCCCACAGGCACT AAAAAAGGTGCGGAAAGTACGCACTTTCCCATATGTTTATCCCTTCACGCCCCCA CCGCGCTTTTCCCCCAATGCGGCCCTCCGAACATACTCTCCCTCCCTTCACACCGTA CCCCAGTCTCCCTCTCTCCCACTCTCTCTTAACCCCCCCCCCTCCCTTTCCCCC CCCTCCCCCATTCTACCTCTCTCGCCCCAGTTATCCTCATCTTCACCCTTTTCTACC CCCATCCCTCTATTGACATTCCGCTCACGTTTGGCCATNTTCTCTCTCCCCCGCCG CCCCACACATTCTAATCATCTCTCATTCTCTCCCTACTTTTCATCCCTTCCCTCTCT CCATCCCTACTTTCCCTTCACCCCCCCCCCTCTCTCTTCAACCCCTTTTTTCTCCTT CCCACATATGATTCACATCGTCCCTCCCTCATATTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_033198
Insert Size:	2500 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
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_033198.2</u> , <u>NP_149975.1</u>

RefSeq Size:	2536 bp
RefSeq ORF:	1668 bp
Locus ID:	94005
UniProt ID:	<u>Q96S52</u>
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	<p>This gene encodes a protein that is involved in GPI-anchor biosynthesis. The glycosylphosphatidylinositol (GPI) anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This gene encodes an essential component of the multisubunit enzyme, GPI transamidase. GPI transamidase mediates GPI anchoring in the endoplasmic reticulum, by catalyzing the transfer of fully assembled GPI units to proteins. [provided by RefSeq, Jul 2008]</p>