

## Product datasheet for **RC209631**

### PIGS (NM\_033198) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIGS (NM_033198) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGS
Synonyms:	GPIBD18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC209631 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCCGCCGGGGCTGCGGCTACACACCTAGAGTGGCCCGGGCAAGCGCGCCGCCCTCTTCTTCG  
 CTGCGGTGGCCATCGTGTCTGGGGCTACCGCTCTGGTGAAGACCACGGAGACCTACCGGGCTCGTTGCC  
 TTACTIONCAGATCAGTGGCCTGAATGCCCTCAGCTCCGCTCATGGTGCCTGTCACTGTCTGTGTTACG  
 CGGGAGTCAGTGGCCCTGGACGACCAGGAGAAGCTGCCCTTACCGTTGTGCATGAAAGAGAGATTCCTC  
 TGAAATACAAAATGAAAATCAAATGCCGTTTCCAGAAGGCCTATCGGAGGGCTTTGGACCATGAGGAGGA  
 GGCCCTGTATCGGGCAGTGTCAAGAGGCAGAAGCCATGTTAGATGAGCCTCAGGAACAAGCGGAGGGC  
 TCCCTGACTGTGTACGTGATATCTGAACACTCCTCACTTCTTCCCAGGACATGATGAGTACATTGGGC  
 CCAAGAGGACAGCAGTGGTGCAGGGGATAATGCACCGGGAGGCCCTTAACATCATTGGCCCGCCATAGT  
 CCAGTGGCCAGGCCATGTCTTTGACTGAGGATGTGCTTGTCTGTCTGGCTGACCACCTCCAGAG  
 GACAAGTGGAGCGCTGAGAAGAGGGCCCTCTCAAGTCCAGCTTGGGCTATGAGATCACCTTCAGTTTAC  
 TCAACCCAGACCCCAAGTCCCATGATGTCTACTGGGACATTGAGGGGGCTGTCCGGCGCTATGTGAACC  
 TTTCTGAATGCCCTCGGTGCCGCTGGCAACTTCTGTGGACTCTCAGATTCTTACTATGCAATGTTG  
 GGGTGAATCCCCGCTTTGACTCAGCTTCTCCAGCTACTATTTGGACATGCACAGCCTCCCCATGTCA  
 TCAACCCAGTGGAGTCCCGGCTGGGATCCAGTGTCTCCTTGTACCCTGTGCTCAACTTTCTACTCTA  
 CGTGCCTGAGCTTGCACACTACCGCTGTACATTCAGGACAAGGATGGCGCTCCAGTGGCCACCAATGCC  
 TTCCATAGTCCCCGCTGGGGTGGCATTATGGTATATAATGTTGACTCCAAAACCTATAATGCCTCAGTGC  
 TGCCAGTGAAGTTCGAGGTGGACATGGTGGAGTGTGAGGAGTTCCTGGCACAGTTGCGGTTGCTCTT  
 TGGGATTGCTCAGCCCCAGCTGCCTCCAAAATGCCTGCTTTCAGGGCCTACGAGTGAAGGGCTAATGACC  
 TGGGAGCTAGACCGGCTGCTCTGGGCTCGGTGAGTGGAGAACCTGGCCACAGCCACCACCCTTACCT  
 CCCTGGCGCAGCTTCTGGCAAGATCAGCAACATTGTCATTAAGGACGACGTGGCATCTGAGGTGTACAA  
 GGCTGTAGCTGCCGTCAGAAAGTCGGCAGAAGAGTTGGCGTCTGGGCACCTGGCATCTGCCTTTGTCGCC  
 AGCCAGGAAGCTGTGACATCCTCTGAGCTTGCCTTCTTTGACCCGCTCACTCTCCACCTCTTTATTTCC  
 CTGATGACCAGAAGTTTGCCATCTACATCCCACTTCTCTGCCTATGGCTGTGCCATCTCCTGTCCCT  
 GGTCAGATCTTCTGGAGACCCGAAGTCTGGAGAAAGCTGAGAAGACAGAC

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC209631 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAAGAAATHLEVAR GKRAALFFAAVAIVLGLPLWKTETETIRASLPYSQISGLNALQLRLMVPVTVVFT  
 RESVPLDDQEKLPFTVWHEREIPLKYKMKIKCRFQKAYRRALDHEEEALSSGSVQEAEMLEDPQEQAEG  
 SLTVYVISEHSSLLPQDMMSYIGPKRTAVVRGIMHREAFNIIGRRIVQVAQAMSLTEDVLAALADHLPE  
 DKWSAEKRRPLKSSLYEITFSLNPDPKSHDVYWDIEGAVRRYVQPFNLALGAAGNFSVDSQILYYAML  
 GVNPRFDSASSSYLDHSLPHVINPVESRLGSSAASLYPVLNFLLYVPELAHSPLYIQDKDGAPVATNA  
 FHSPRWGIMVYNVDSKTYNASVLPVRVEVDMVRVMEVFLAQLRLLFGIAQPQLPPKCLLSGPTSEGLMT  
 WELDRLLWARSVENLATATTTLSLAQLLGKISNIVIKDDVASEVYKAVAAVQKSAEELASGHLASAFVA  
 SQEAVTSSSELAFFDPSLLHLLYFPDDQKFAIYIPLFLPMAVPILLSLVKIFLETRKSWRKPEKTD

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6774\\_d05.zip](https://cdn.origene.com/chromatograms/mk6774_d05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_033198

**ORF Size:** 1665 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

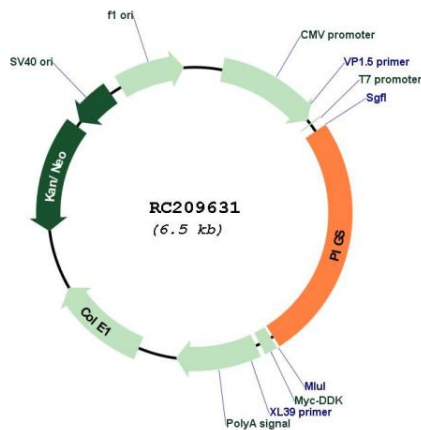
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

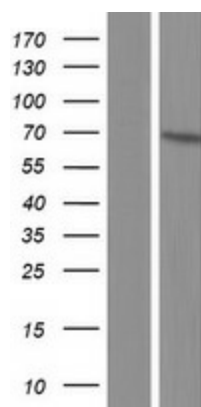
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_033198.4](#)

RefSeq Size:	2873 bp
RefSeq ORF:	1668 bp
Locus ID:	94005
UniProt ID:	<a href="#">Q96S52</a>
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
MW:	61.7 kDa
Gene Summary:	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]

**Product images:**


Circular map for RC209631



Western blot validation of overexpression lysate (Cat# [LY409676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209631 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).