

## Product datasheet for **RG209631**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIGS (NM_033198) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGS
Synonyms:	GPIBD18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209631 representing NM\_033198  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCCGCCGGGCTGCGGCTACACACCTAGAGTGGCCCGGGCAAGCGCGCCGCCCTCTTCTTCG  
 CTGCGGTGGCCATCGTGCTGGGGCTACCGCTCTGGTGAAGACCACGGAGACCTACCGGGCTCGTTGCC  
 TTACTIONCAGATCAGTGGCCTGAATGCCCTTACGCTCCGCTCATGGTGCCTGTCACTGTCTGTGTTACG  
 CGGGAGTCAGTGGCCCTGGACGACCAGGAGAAGCTGCCCTTACCGTTGTGCATGAAAGAGAGATTCCTC  
 TGAAATACAAAATGAAAATCAAATGCCGTTTCCAGAAGGCCTATCGGAGGGCTTTGGACCATGAGGAGGA  
 GGCCCTGTATCGGGCAGTGTGAAGAGGCAGAAGCCATGTTAGATGAGCCTCAGGAACAAGCGGAGGGC  
 TCCCTGACTGTGTACGTGATATCTGAACACTCCTCACTTCTTCCCAGGACATGATGAGCTACATTGGGC  
 CCAAGAGGACAGCAGTGGTGCAGGGGATAATGCACCGGGAGGCCCTTAACATCATTGGCCGCCGCATAGT  
 CCAGGTGGCCAGGCCATGTCTTTGACTGAGGATGTGCTTGTCTGCTCTGGCTGACCACCTTCCAGAG  
 GACAAGTGGAGCGCTGAGAAGAGGCGGCCCTCTCAAGTCCAGCTTGGGCTATGAGATCACCTTCAGTTTAC  
 TCAACCCAGACCCCAAGTCCCATGATGTCTACTGGGACATTGAGGGGGCTGTCCGGCGCTATGTGAACCC  
 TTTCTGAATGCCCTCGGTGCCGCTGGCAACTTCTGTGGACTCTCAGATTCTTTACTATGCAATGTTG  
 GGGGTGAATCCCCGCTTTGACTCAGCTTCTCCAGCTACTATTTGGACATGCACAGCCTCCCCCATGTCA  
 TCAACCCAGTGGAGTCCCGGCTGGGATCCAGTGTCTGCTCCTTGTACCCTGTGCTCAACTTTCTACTCTA  
 CGTGCCTGAGCTTGACACTCACCGCTGATACATTGAGGACAAGGATGGCGCTCCAGTGGCCACCAATGCC  
 TTCCATAGTCCCCGCTGGGGTGGCATTATGGTATATAATGTTGACTCCAAAACCTATAATGCCTCAGTGC  
 TGCCAGTGAAGTTCGAGGTGGACATGGTGGAGTGTGAGGAGTTCCTGGCACAGTTGCGGTTGCTCTT  
 TGGGATTGCTCAGCCCCAGCTGCCTCCAAAATGCCTGCTTTCAGGGCCTACGAGTGAAGGGCTAATGACC  
 TGGGAGCTAGACCGGCTGCTCTGGGCTCGGTGAGTGGAGAACCCTGGCCACAGCCACCACCCTTACCT  
 CCCTGGCGCAGCTTCTGGGCAAGATCAGCAACATTGTCATTAAGGACGACGTGGCATCTGAGGTGTACAA  
 GGCTGTAGCTGCCGTCAGAAAGTCGGCAGAAGAGTTGGCGTCTGGGCACCTGGCATCTGCCTTTGTCGCC  
 AGCCAGGAAGCTGTGACATCCTCTGAGCTTGCCTTCTTTGACCCGCTCACTCCTCCACCTCCTTTATTTCC  
 CTGATGACCAGAAGTTTGCATCTACATCCCCTTCTCTGCCTATGGCTGTGCCATCTCCTGTCCCT  
 GGTCAGATCTTCTGGAGACCCGCAAGTCTGGAGAAAGCCTGAGAAGACAGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209631 representing NM\_033198  
 Red=Cloning site Green=Tags(s)

MAAAGAAATHLEVAR GKRAALFFAAVAIVLGLPLWKTTE TYRASLPYSQISGLNALQLRLMVPVTVVFT  
 RESVPLDDQEKLPFTVWHEREIPLKYMKIKCRFQKAYRRALDHEEEALSSGSVQEAEMLEPQEQAEG  
 SLTVYVI SEHSSLLPQDMMSYIGPKRTAVVRGIMHREAFNIIGRRIVQVAQAMSLTEDVLAALADHLEPE  
 DKWSAEKRRPLKSSLYEITFSLNPDPKSHDVYWDIEGAVRRYVQPFNLALGAAGNF SVDSQILYYAML  
 GVNPRFDSASSSYLLDMHSLPHVINPVESRLGSSAASLYPVLNLLYVPELAHSPLYIQDKDGAPVATNA  
 FHSPRWGGIMVYNVDSKTYNASVLPVRVEVDMVRVMEVFLAQLRLLFGIAQPQLPPKCLLSGPTSEGLMT  
 WELDRLLWARSVENLATATTTLSLAQLLGKISNIVIKDDVASEVYKAVAAVQKSAEELASGHLASAFVA  
 SQEAVTSSSELAFFDPSLLHLLYFPDDQKFAIYIPLFLPMAVPILLSLVKIFLETRKSWRKPEKTD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

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:** 2536 bp  
**RefSeq ORF:** 1668 bp  
**Locus ID:** 94005  
**UniProt ID:** [Q96S52](#)  
**Cytogenetics:** 17q11.2  
**Protein Families:** Transmembrane  
**Protein Pathways:** Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways  
**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 RG209631