

## Product datasheet for MR201059

### Pigx (NM\_024464) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pigx (NM\_024464) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pigx  
**Synonyms:** 2010319C14Rik; PIG-X  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201059 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCTATCAGAAAGTTTTAATATAGAAGCCCCAACTACTTGTCCAATGAATCTGCAGTCTCATTATG  
 CCCGGCAGGATGCACAGTGCATCGACTGCTCCAGGCCTTTTACCTGTGCACTATCGCTATCACCGGCC  
 ACATAAGAAAGATGGAGACACCCTATTGTGGTCAACAACCCGACTTACTGATGTACTGTGACCAAGAG  
 TTTCCAATTTGAAATGCTGGGCTCAGTCAGAAGTAGCAGCTCCTTGTGCTTTGAAGAGTGAGGAGATCT  
 GCCAGTGGAAAAGCATGCAGTACAAATCAATACTTAAGAATTTGACAGTGCAGGTTCCAGTGGGACTGAC  
 TATACATACCTCTTTAGTGTGTTCTGTGACGCTGCTCATTACGATTCTGTGTTCTACTTTGATCCTTTTA  
 GCTGTTTTCAAATATGGCCACTTTTCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201059 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSEFNIEAPNYLSNESAVLIYARQDAQCIDCFQAFLPVHYRYHRPHKKGDTLIVVNNPDLIMYCDQE  
 FPILKCWAQSEVAAPCALKSEEICQWKSQYKSIKLNLTVQVPVGLTIHTSLVCSVTLITILCSTLILL  
 AVFKYGHFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_024464

**ORF Size:** 453 bp

**OTI Disclaimer:** 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\\_024464.2](#), [NP\\_077784.1](#)

**RefSeq Size:** 1019 bp

**RefSeq ORF:** 765 bp

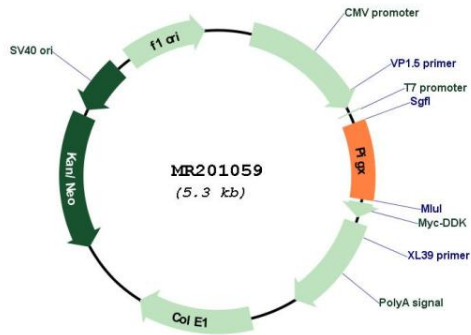
**Locus ID:** 72084

**UniProt ID:** [Q99LV7](#)

**Cytogenetics:** 16 B2  
**MW:** 17 kDa

**Gene Summary:** This gene encodes a type I transmembrane protein in the endoplasmic reticulum (ER). The protein is an essential component of glycosylphosphatidylinositol-mannosyltransferase I, which transfers the first of the four mannoses in the GPI-anchor precursors during GPI-anchor biosynthesis. Studies in rat indicate that the protein is translated from a non-AUG translation initiation site. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for MR201059