

Product datasheet for **MG201059**

Pigx (NM_024464) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pigx (NM_024464) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pigx
Synonyms: 2010319C14Rik; PIG-X
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201059 representing NM_024464
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTATCAGAAAGTTTTAATATAGAAGCCCCAACTACTTGTCCAATGAATCTGCAGTCTCATTATG
 CCCGGCAGGATGCACAGTGCATCGACTGCTCCAGGCCTTTTACCTGTGCACTATCGCTATCACCGGCC
 ACATAAGAAAGATGGAGACACCCTATTGTGGTCAACAACCCGACTTACTGATGTACTGTGACCAAGAG
 TTTCCAATTTGAAATGCTGGGCTCAGTCAGAAGTAGCAGCTCCTTGTGCTTTGAAGAGTGAGGAGATCT
 GCCAGTGGAAAAGCATGCAGTACAAATCAATACTTAAGAATTTGACAGTGCAGGTTCCAGTGGGACTGAC
 TATACATACCTCTTTAGTGTGTTCTGTGACGCTGCTCATTACGATTCTGTGTTCTACTTTGATCCTTTTA
 GCTGTTTTCAAATATGGCCACTTTTCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201059 representing NM_024464
 Red=Cloning site Green=Tags(s)

MLSESFNIEAPNYLSNESAVLIYARQDAQCIDCFQAFLPVHYRYHRPHKKGDTLIVVNNPDLIMYCDQE
 FPILKCWAQSEVAAPCALKSEEICQWKSQYKSIKLNLTQVQPVGLTIHTSLVCSVTLITILCSTLILL
 AVFKYGHFSL

TRTRPLE - GFP Tag - V

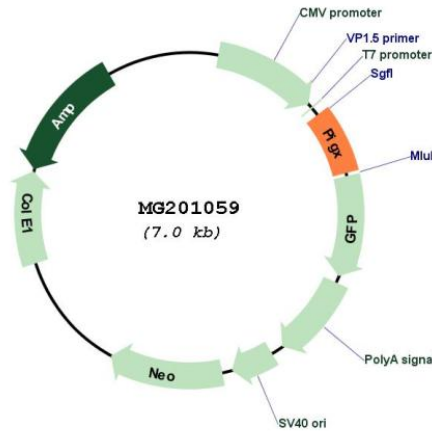
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_024464

ORF Size: 450 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:	<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_024464.2</u> , <u>NP_077784.1</u>
RefSeq Size:	984 bp
RefSeq ORF:	765 bp
Locus ID:	72084
UniProt ID:	<u>Q99LV7</u>
Cytogenetics:	16 B2
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]