

## Product datasheet for **MG217217**

### **Pigz (NM\_172822) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pigz (NM_172822) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pigz
Synonyms:	F630022B06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217217 representing NM\_172822  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGTGGCAGCCAGGTGATTTGGGGTAGCTTCAGCCTGCTTCGTGTCTTATGGTGTCTCCTCCCC  
 AGACTGGCTACATACACCAGATGAATTCTCCAGTCACCTGAGGTCATGGCAGAGGACATCCTGGGTGT  
 GCAGGCTACACGGCCCTGGGAATTTACCCAGCAGCTCCTGCCCACTGTGGTCTTCCCACTGCTGACC  
 TCTGGCTCTACCTTCTGGTTACTCAGGCTCTGGGAAGAGCTGGGGCTCTGGCCTGGTCTGGTGTGAGTGGCT  
 ACATGCTGCTGGTGGGGCCCGATTCTTCTCACCGCCCTCTCCTTTGCCCTGGACTGGGCTGTGTACGA  
 TCTGGCCCGTTGTGGGGGCGAGATCGTTGGAATGCCTTGTGCCTGCTGTCTGGTTCCTATGTCACCCTG  
 GTTTTCTACACAAGAACCTTCTCCAACACCATCGAGGGACTGCTTTCACCTGGCTGCTGGTGTGGTGT  
 CCCCTGGTGTGGTAAGGAGTCTACATCAAAGAAGCCTACCCAGGTCCACGGTGGCACAGATATCTTCT  
 TGGTGTATCTTGGCTGTGGCTTCTTCAACCGCCAACCTTTCTAGCCTTTGCTCTGGCCCCCTCTCT  
 CTCTGGGCATCCATAGAGCTTCAGAACTTGGTGGCATCAGGGCCCTGATCCAGGAGGCCCTGGTGTGT  
 TGCCAGGGGCTGCTTCTGCTGCAGTGTGTGTGTAGCCACGGACAGCTGGTACTTCTCCAGCCTCTCGAG  
 ATCCACAGGCGTCTTCTCACACCTGCCAACTTCTTGTACTACAACTGGACCCCAAACTTGGCAGG  
 CACGGCACACACGACGGCTCACTCACTTGGCAGTCAATGGCTTCTGCTCTTTGGGGTGTGTGATGCTC  
 AAGCTCTGCAGGCTGCATGGCAACAACCTCACGCTGCCTCCGTGCATCCCCACAACGGGTCTCTCCAG  
 GGTGCGGGGTGCCGGGGTCTGTGTCTAGCTCCAAGTCTTATCTCTCTCTTACTTTACACCCCTG  
 CTCCTGTTCTGCCTTTCAGCCATCAAGAGGCTAGATTTCTGATCCCTCTAGTCCCTCTAGTCCCTGCT  
 TGTGCAGTCCACAACCAACCTATACCTTGGAAAGCACCCCTGGTCTCTTCAACATCCTGGGCGCTCT  
 CATCTTTGGTTGCCTGCATCAGGGAGTCTGGTACCGGGCTGAAGTACCTGGAGCAGATAGTCCACAGC  
 CCTGACCTCTCAGGCACGACCACCCACTACACACTTCTTTCACACACACCTACATGCCTCCCCAGACC  
 TCTTACACCTCTCAGGCCTGGGATCACCCGTGGAGGTGGTAGACATGGGTGGGGCTGAGGACAGGGTCT  
 GTGTCAAGCCCTGAACAACCTCAGCAGACAACCTGCCTGCCAACTGGCTGGTGGAGCCATGGCCCTGTCGG  
 CTCTTTGTGGTAACCTCTGGGACCAACAGGCACGCTCTGGAGAAGTGCCGTTTTCCCTCAAGAATGAGA  
 CTCTCTTGTTCCTTCCCACTTGACCCTGGAGGACCCTCCAGCCCTGTCTCTGCTCAGTGGGGCTTGGAG  
 GAAGCACCTTAGTCTCCATGTCATAGAAGTGGAGACGCTGTTGTGACAAAGCAGCCCAAGGCTCAGCCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217217 representing NM\_172822  
 Red=Cloning site Green=Tags(s)

MMVAAQVIWGSFLLRLVWCLLPQTGYIHPDEFFQSPEVMAEDILGVQATRPWEFYPPSSSRTVVFPLLT  
 SGSTFWLLRRLWEELGLWPGLVSGYMLLVGPRFLLTALSFALDWAVYDLAPLWGADRWNALCLLSGSYVTL  
 VFYTRTFSENTIEGLLFTWLLVLVSPGVVRSPTSKKPTGPRWHRYLLGVILAAGFFNRPTFLAFALAPLS  
 LWGIHRASELGGIRALIQEALVLLPGAALAAVLCVATDSWYFSSLRSTGVFLTPANFLYINLDPQNLAR  
 HGTHARLTHLAVNGFLLFGVLHAQALQAAWQQLHACLRASPQTGLSRVRGARGLLSSSKSYLLLFYFTPL  
 LLLSAFSHQEARFLIPLLVPVLVLLCSPQTQPIPWKGTLLVFNILGALIFGCLHQGLVPGLKYLEQIVHT  
 PDLSGTTHTYLLFTHTYMPQHLHLHL SGLGSPVEVDMGGAEDRVLQALNNFSRQPACQLAGEPWPCR  
 LFVVTPTGNRHALEKCRFPLKNETLLFPHLTLEDPPALSSLLSGAWRKHL SLHVIELETPVVTQPKAQP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_172822

**ORF Size:** 1680 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\\_172822.3](#), [NP\\_766410.2](#)

**RefSeq Size:** 2184 bp

**RefSeq ORF:** 1683 bp

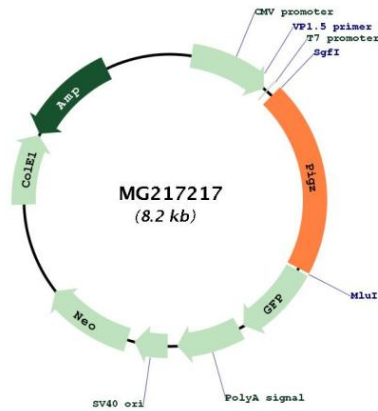
**Locus ID:** 239827

**UniProt ID:** [Q8BTP0](#)

**Cytogenetics:** 16 B2

**Gene Summary:** Mannosyltransferase involved in glycosylphosphatidylinositol-anchor biosynthesis. Transfers a fourth mannose to some trimannosyl-GPIs during GPI precursor assembly. The presence of a fourth mannose in GPI is facultative and only scarcely detected, suggesting that it only exists in some tissues (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217217