

## Product datasheet for **MG216866**

### **Pigw (NM\_027388) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pigw (NM_027388) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pigw
Synonyms:	2610044A17Rik; Gwt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216866 representing NM\_027388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCAAAGCAGCTGAAGGAAGCCTTTGTCTCAGGAACCTCAGTGGACCAGTGTCTGGAAGTGACCC  
 AGGGCCTGTGCTTTCCTGCCTTCTGTATCTGTGTAGAGGCCCTTTGGATCATCTTCTCACAGCACGTATG  
 CTCTTTCTCAAACACCTGGAGCACACGATTCTCATGGACTTTGTTGTCTTGATAGTCCCCCTAGTGATC  
 ACTCTGACTGTATTGTCTTCTTTATCCTCCTCGAGAATCTCACTGTGATTGTCTGGGGGCATGGCTGT  
 TGTATCAGATATACCACAGGAGGACTTGTACGCCAAAGTGCCTGTCCAGAAAGTCTTTGCAAACCTCTT  
 GAAAATCAGCCTAGAATCTGAGTACAATCCCGCAATCACCTGTTACCGGGTCATTAACAGCGTATTTACG  
 GCTATTGCCATTTGGCCGTGGATTTCCACTTTTCCCTAGAAGATTTGCCAAAAGTGAACCTTTATGGGA  
 CAGGAGCAATGGATTTGGAGTAGGTGGCTTTATTTTGGGGCGCAATGGTTTGTCCAGAGTTAGAAG  
 GAAATCTATAGAAGAGTCTAGATTTAATTATCTTAGAAAATCGCTGATTCTGTCTGGCCATTGGTCTTC  
 TTAGGAATGGGACGGTTGGTCATTATAAAGTCCATAGGCTACCAGGAACATTCTACCGAGTACGGCATT  
 ACTGGAACTTTTCTTTACCATCATAGTTGTGCGATTAGTAACGTCACCTGCTTTTGATTATTTTCTTT  
 AAATAAGTCGTGGATTGTGGCTGTGAGCATAACTGTGGTATACCAGCTAGCCCTGGATTATACTCCACTC  
 AAGAGGATACTTTTGTATGGCACTGATGGCAGTGGCACAAGGGTTGGCTTCTTAAATGCTAACCGAGAGG  
 GAATAATTTCCACTTTGGGGTATGTGACAATACACATGGCTGGTGTACAAACGGGATTGTATGTGCTTAA  
 GGAAGAGCACAAGTCAAGACTGGATAAAGCTACTTGTGGTTTTCTCAGTAGCTGTTGGCTTCTTC  
 ATTTCTCTCATATAGTCAAGTAAACATAGAAGCAGTATCTCGAAGAATGGCCAATTTAGCCTTTTGTCT  
 TGTGGGTAGTTGCTTCCAGTCTGATGCTTCTTAGTTGTCTGTTACTGAGTGGTATAATTTTGGCTTTGC  
 CCAATTTCTAATTAAGGGTCTCTAGTTCATGTTTCTTGGAAACTTATACAGTCTCCTACTACACATAAA  
 AACCATCTGAATCTCTAATCTTAGAAGCTGAAAAAACAACCCAGTCTTTGTTTGATCACAGCTCTGA  
 ACAGAAACCAGCTGTTTTTTTCTTACTGTCAAATATAACAACCTGGTCTGATTAACCTGACGATGGATAC  
 ATTACACTGGTGCCTTGTGGACCTTAGTTGTGCTCAGTATTTATGTTTACCAACTGTTTAGTTATA  
 TATGTAATTGATTACAAGGTAACCATAAAGTTTTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216866 representing NM\_027388  
 Red=Cloning site Green=Tags(s)

MSQKQLKEAFVRNLSGTSVLEVTQGLCFPAFCILCRGLWIFSQHVCSFSNTWSTRFLMDFVVLIVPLVI  
 TLTVLSSFILLENLTVIVGAWLLYQIYHRRTCYAKVPVQKVFANFLKISLESEYNPAITCYRVINSVFT  
 AIAILAVDFPLFPRRFKTELYGTGAMDFGVGGFIFGAAMVCPEVRRKSIIEESRFNYLRKSLYSVWPLVF  
 LGMGRLLVIAKSIQYQEHSTEYGIHWNFFFTIIVVRLVTSLLLIFPLNKSIVAVSITVVVYQLALDYTPL  
 KRILLYGTGSGTRVGFNLNANREGIISTLGYVTIHMAGVQTGLYVLKGRAQVRDVIKATCWVFSVAVGFF  
 ISLHIVQVNI EAVSRMANLAFCLWVVASSLMLLSCLLLSGIILSFAQFLIKGSLVPCSWKLIQSPTHK  
 NHSESLILEAEKNQPSLCLITALNRNQLFFLLSNITTLINLTMDTLHTGALWTLVVLVIYMFTNCLVI  
 YVLDLQGTKIKFW

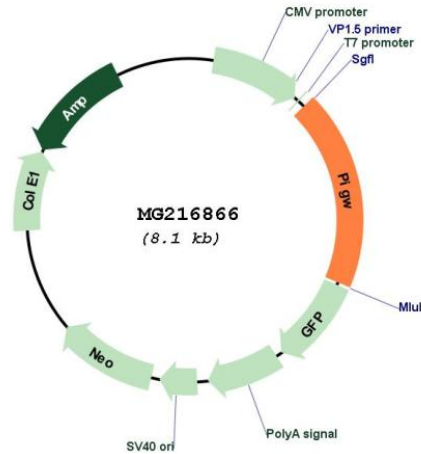
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



Plasmid Map:



ACCN: NM\_027388

ORF Size: 1509 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\\_027388.2](#), [NP\\_081664.2](#)

**RefSeq Size:** 2677 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 70325

**UniProt ID:** [Q8C398](#)

**Cytogenetics:** 11 C

**Gene Summary:** Required for the transport of GPI-anchored proteins to the plasma membrane. Probable acetyltransferase, which acetylates the inositol ring of phosphatidylinositol during biosynthesis of GPI-anchor. Acetylation during GPI-anchor biosynthesis is not essential for the subsequent mannosylation and is usually removed soon after the attachment of GPIs to proteins.[UniProtKB/Swiss-Prot Function]