

Product datasheet for **MR216866**

Pigw (NM_027388) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigw (NM_027388) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigw
Synonyms:	2610044A17Rik; Gwt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216866 representing NM_027388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCAAAGCAGCTGAAGGAAGCCTTTGTGTCAGGAACCTCAGTGGACCAGTGTGCTGGAAGTGACCC
 AGGGCCTGTGCTTTCCTGCCTTCTGTATCCTGTGTAGAGGCCCTTTGGATCATCTTCTCACAGCACGTATG
 CTCTTTCTCAAACACCTGGAGCACACGATTCTCATGGACTTTGTTGTCTTGATAGTCCCCCTAGTGATC
 ACTCTGACTGTATTGTCTTCTTTATCCTCCTCGAGAATCTCACTGTGATTGTCTGGGGGCATGGCTGT
 TGTATCAGATATACCACAGGAGGACTTGTACGCCAAAGTGCCTGTCCAGAAAGTCTTTGCAAACCTCTT
 GAAAATCAGCCTAGAATCTGAGTACAATCCCGCAATCACCTGTTACCGGGTCATTAACAGCGTATTTACG
 GCTATTGCCATTTGGCCGTGGATTTCCACTTTTCCCTAGAAGATTTGCCAAAAGTGAACCTTTATGGGA
 CAGGAGCAATGGATTTTGGAGTAGGTGGCTTTATTTTGGGGCGCAATGGTTTGTCCAGAGTTAGAAG
 GAAATCTATAGAAGAGTCTAGATTTAATTATCTTAGAAAATCGCTGATTCTGTCTGGCCATTGGTCTTC
 TTAGGAATGGGACGGTTGGTCATTATAAAGTCCATAGGCTACCAGGAACATTCTACCGAGTACGGCATT
 ACTGGAACTTTTCTTTACCATCATAGTTGTGCGATTAGTAACGTCACCTGCTTTTGATTATTTTCCCTT
 AAATAAGTCGTGGATTGTGGCTGTGAGCATAACTGTGGTATACCAGCTAGCCCTGGATTATACTCCACTC
 AAGAGGATACTTTTGTATGGCACTGATGGCAGTGGCACAAGGGTGGCTTCTTAAATGCTAACCGAGAGG
 GAATAATTTCCACTTTGGGGTATGTGACAATACACATGGCTGGTGTACAAACGGGATTGTATGTGCTTAA
 GGAAGAGCACAAGTCAGAGACTGGATAAAAGCTACTTGTGGTTTTCTCAGTAGCTGTGGCTTCTTC
 ATTTCTCTCATATAGTGAAGTAAACATAGAAGCAGTATCTCGAAGAATGGCCAATTTAGCCTTTTGTG
 TGTGGGTAGTTGCTCCAGTCTGATGCTTCTTAGTTGTCTGTTACTGAGTGGTATAATTTGAGTTTTGC
 CCAATTTCTAATTAAGGGTCTCTAGTTCATGTTCTTGGAAAATATACAGTCTCCTACTACACATAAA
 AACCATCTGAATCTCTAATCTTAGAAGCTGAAAAAACCACCCAGTCTTTGTTTGATCACAGCTCTGA
 ACAGAAACCAGCTGTTTTTTTCTTACTGTCAAATATAACAAGTGGTCTGATTAACCTGACGATGGATAC
 ATTACACTGGTGCCTTGTGGACCTTAGTTGTGCTCAGTATTTATGTTTACCAACTGTTTAGTTATA
 TATGACTTGATTACAAGGTAACCATAAAGTTTTGG

ACCGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216866 representing NM_027388
 Red=Cloning site Green=Tags(s)

MSQKQLKEAFVRNLSGTSVLEVTQGLCFPAFCILCRGLWIFSQHVCSFSNTWSTRFLMDFVVLIVPLVI
 TLTVLSSFILLLENLTVIVGAWLLYQIYHRRTCYAKVPVQKVFANFLKISLESEYNPAITCYRVINSVFT
 AIAILAVDFPLFPRRFKTELYGTGAMDFGVGGFIFGAAMVCPEVRRKSIEESRFNYLRKSLYSVWPLVF
 LGMGRLVIIKSIGYQEHSTEYGIHWNFFFTIIVVRLVTSLLLIIIFPLNKSIVAVSITVVYQLALDYTPL
 KRILLYGTGDSGTRVGFNLNANREGIISTLGYVTIHMAGVQTGLYVLKGRAQVRDWIKATCWVFSVAVGFF
 ISLHIVQVNIIEAVSRMANLAFCLWVAVSSMLLSCLLLSGIILSFAQFLIKGSLVPCSWKLIQSPTHK
 NHSESLILEAEKNQPSLCLITALNRNQLFFLLSNITGLINLTMDTLHTGALWTLVVLISYMFNTCLVI
 YVLDLQGTKIKFW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_c09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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

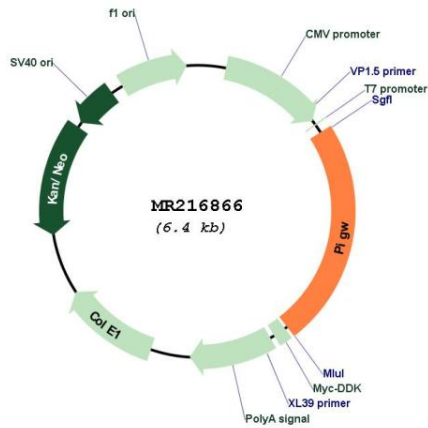
UniProt ID: [Q8C398](#)

Cytogenetics: 11 C

MW: 57.3 kDa

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]

Product images:



Circular map for MR216866