

## Product datasheet for **MR208656**

### **Pigb (NM\_018889) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pigb (NM_018889) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigb
Synonyms:	Pig-b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208656 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGTCCCAGGCCCGACTATAACCCGGCCTCCCGAATCTCCACGGCAGCTCGGGAGAAATGAAGC  
 TCGGAGGAGGAAGTCCAGGCAGTACGTGAGCGCGCAGGAGAAACGCTCTCCGCGCGTGGTCTTCTTGG  
 AGAAAACACTTACCTGGTCTTGTACCATCGCTCTGCGAATACTTAAGTCTTCTAGTGCAGACAAGC  
 TTTGTTCTGATGAATACTGGCAGTCCCTCGAAGTTGCACACCGCATGGTTTTAGTTATGGTTATTTGA  
 CCTGGGAATGGACGGAGCGATTGAGAGGCTACACTTACCCCTCATCTTCGCCAGTATTTACAAGTTCT  
 GCATCTTCTGGGAAAGACAGTGTCAATTCTGATCTGGATTCCAGACTTGGCCAAGCTTCTGTCT  
 GCTGTAGCGGATATAAGGCTCTACTCCCTCTGAAGCAGCTGGAAAACAGGAAGTGGCACAATGGGTGT  
 TCCTCTGCCAGCTGTCTCTGGTTCACATGGTACTGCTGCACACGGACCCTCACGAACCCATGGAGAC  
 CTCCTCACTGCCCTCGCCCTTTTCTACTATCCTCTGGAAGGCTCGAGGTCGGTGAACAGCGTCAAGTAC  
 TCGCTCCTGGTGGCACTTGTCTGTGGTCCGCCCCACAGCTCTTATCCCATGGGTGCCGCTGCTCTTCA  
 GACATTTCTACCAAGAACAGAGAAAGCTCCATCTGACTCTGCATCATTTTTTACCTGTAGGATTTATAAC  
 CTTTCTGATTAATTGACCGTATCTTTTTTGGCCAATGGACGCTGGTCCAATTAATTTCTTG  
 AAATTTAACGTGCTGCAGAACCTAGGGACGTTTTATGGTCCCATCCATGGCACTGGTACCTCAGTCAAG  
 GGTCCCAGTTGTCTGGGGACCACTTACCTTCTTATTACGGTTGCTTCTAGCCCCAAGGAGGCT  
 CCACATACTGTGCTGACCGTGTGGACTGCTGGTATACAGCATGTTGGGCCACAAAGAATTCAGG  
 TTTATCTATCCAGTTTACCATTCTGCATGGTGTCTGTGGTTACTACTAGCCACCTGAAGACATGGA  
 GGAAGGCAGCCCTGAGCTTCTGCTCTGTCAAATGTGCCACTGGCATTCTACTAGTTCATGTTCTCA  
 GAGAGGCACCCTGGATGTCATGAATCACGTTTACAGAAAGTCTGCCCCGAGGTCCTGACCCAGCTTCCGCC  
 TCAGTATTCATAATGATGCCCTGCCACTCCACGCCTTACTACAGCCATGTTCACTGCCACTGTCCATGC  
 GTTTTCTCCAGTGTCCCCAGACTTACTGAAAACTCAGTATCTTGTGAAGCAGATATGTTCTACTT  
 AAACCCCTTAAGATGGTTACAACAAGAATTTACAGCAATGCGTCACTCCCCACTCACTTGGTCACTTC  
 AATGTTCTGGAGAAGGAGATCAATACCTTCTCACCTCAGGGAACACGAGAGGGCCGCTACATTCTTCC  
 ACCTCACTGGCCAGAGCGCCGAAGTCAATACAGCTACGAGCGAAGGTTACCCGGCAGGGT  
 CAACACAGGAGGGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208656 protein sequence  
 Red=Cloning site Green=Tags(s)

MESQAADYNPASRNLHGSSGEMKLRRRKSRQYVSAQEKSPRRGLLGENTYLVLFITIALRILNCFVQTS  
 FVPDEYQWQSLVAHRMVFSYGYLTWEWTERLRGYTYPLIFASIIYKVLHLLGKDSVQFLIWIPLRQALLS  
 AVADIRLYSLLKQLENQVAQWVFLCQLCSWFTWYCCTRTLNTMETSLTALALFYPLEGSRVSNVSKY  
 SLLVALACVVRPTALIPWVPLFRHFYQQRKHLHLHHLPLVGFITFSLSLIIDRIFFGQWTLVQLNFL  
 KFNVLQNLGTFYGSHPWHWYLSQGFVVVLGTHLPFFIHGCFAPRRLHILLTLVWTLVYSMLGHKEFR  
 FIYPVLPFCMVFVCGYSLAHLKTRKAALSFLLLSNVPLAFYVGLVHQRTLDVMNHVQKVCPRGPDASA  
 SVFIMPCSTPYYSVHVCPLSMRFLQCPPDLTGKTQYLDEADMFYLNPLRWLQQEFHSNASLPHLVTF  
 NVLEKEINTFLTSGNYERAATFFHWHWPERRTGSHIHVYERRLPGRVNTGGN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018889

**ORF Size:** 1629 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\\_018889.1](#), [NM\\_018889.2](#), [NM\\_018889.3](#), [NP\\_061377.1](#)
**RefSeq Size:** 2193 bp

**RefSeq ORF:** 1629 bp

**Locus ID:** 55981

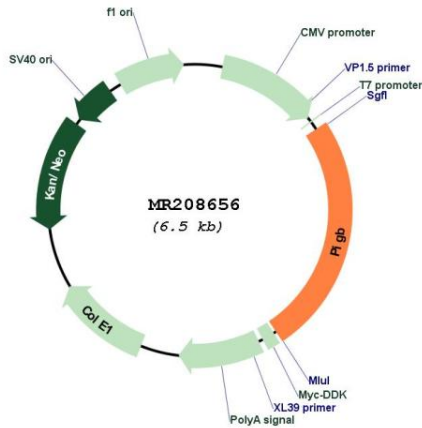
**UniProt ID:** [Q9J1Q0](#)

**Cytogenetics:** 9 D

**MW:** 63.1 kDa

**Gene Summary:** Mannosyltransferase involved in glycosylphosphatidylinositol-anchor biosynthesis. Transfers the third alpha-1,2-mannose to Man2-GlcN-acyl-PI during GPI precursor assembly (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208656