

## Product datasheet for **RR211504**

### **Pigv (NM\_001010966) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pigv (NM_001010966) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigv
Synonyms:	RGD1309526
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR211504 representing NM\_001010966  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTCCTGGACCCGTCCAGAAAGAGGTGCTGAAATTTGCAGTGAGCTGCCGCATCCTGACTCTAG  
 TGCTACAGGCACTCTCAATATCATCATCCAGACCACCATGCCGATGCCTTTCTCCTCCCGCCTCGC  
 CCCCTCGGGCTCTGTGGATCAGCTTGTGGAAGCTCTTCTGGGTGGTCTGTCTCGATGGGATGCTGAACAC  
 TTCCTGTTATTGCTGAGCACGGCTACCTTTATGAGCACAACCTTGCCTTCTCCCTGGCTTCCCCTTGG  
 CCCTGCTGATGGAACTGAACTGCTGAGGCCCTGCAGGGCCTTTGAGCGAGCGCAGTTGCCTGCTGGT  
 CTCAGTAGCACTTCTCAACTCCCTGTTCTCTGTGCTGGCCGAGTTGCACCTTCATGACTTGGGCTGTCTG  
 GTTTTGCACTGTCCTCGCAGGCCTTTTGTGCGGCACTGCTTCTGCCTCAGCCCTGCCAATGTTTTCT  
 TGGCAGCTGGTACTCGAAGCTTTGTTGCCTCCTGACATTCAGTCCATGGGGCAGCTGGAGAGGGG  
 CCGAGGCTGGGCTAGTGGGCTGCTTTTGTCTTCCGCTGGGGTGCCTCCAACGGGCTGGTCAAGGCT  
 GGCTTCCCTCGATTCTCAGTGCAGAGGCTTTTGTCTTCTCTGGTGGTCTGGACCCCTTGAAAGGGC  
 TGGTCAAGCTCATGGCCTCTCTGTGCTTGTGACTCACAGTCAGCCTTCCCTTTGCCCTCTTTCAGTA  
 TTATGCCTACACCAGTTCTGTTTCCCAGGCTCAGCCCATGCCATCCCTGAGCCCTTGTGCGGCTAGCT  
 TCGGACAGAGGCTACCGGCTTGCAGGAGACTATGAGCCCCATGGTGTCTCCCGGGCTCCTCCACTAATAT  
 ACAGCTATATTCAGGATGTCTACTGGAACGTTGGTCTTCTGCGATACTATGAGCTCAGACAGGTGCCGAA  
 TTTTCTCCTAGCTACACCAGTACTGTACTGGTGTGTGGCAACCTGGACGTA TGTGACCGCCACCCT  
 TGGCTCTGCCTTACCCTTGGGCTGCAAAGGACCAAGGACAGGGAGAGCCTGGAGAAGCCCCATCCTGGCT  
 TCCTCAGTCAAAGGTGTTTGTACTGTCCACGCGCAGCGTCTGCGCTTTGGAGGCTGTGCTGCTGCT  
 GCATGTCCAGGTTCTCAGCGACTTCTGGGCTCTTCCACTCCCATCACATACTGGTTTCCAGCTTACTCTG  
 CTTCAGGATCGAGAACCCTGTTAAGATGTGTAGACACAGCCCTCAGAAGCTTCTTGAATTCCCAC  
 CAGGACAAAAGGCCCCAGAACTGTGTCATGAACTCTTATACAAGTGAAGACCTGCTCTCCAGTCA  
 AAAATGCATCCTAGTCTACTTCTGACCTACTGGCTCCTGGGACTAATTATGCATTGCAACTTCTGCT  
 TGGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211504 representing NM\_001010966  
 Red=Cloning site Green=Tags(s)

MGLLDPSQKEVLKFAVSCRILTLVLQALFNIIIPDHADAFSPRLAPSGSVDQLVEALLGGLSRWDAEH  
 FLFIAEHGYLYEHNFAFFPGFPLALLMGTELLRPLQGLLSERSCLLVSVALLNSLFSVLAVALHDLGCL  
 VLHCPRQAFCAALLFCLSPANVFLAAGYSEALFAFLTFSAMQLERGRGWASGLLFALAAGVRSNGLVSV  
 GFLLHSQCRGFCSLVLDPLKGLVKLMASLCLSVLTVSLPFALFQYYAYTQFCFPGSAHA IPEPLRLA  
 SDRGYRLAGDYEPWPSCRAPPLIYSYIQDVYWNVGLLRYYELRQVPNFLLATPVTVLVVWATWYVTAHP  
 WLCLTLGLQRTKDRESLEKPHPGFLSAKVYVYLVHAAALLAFGGLCMHVQVLRLLGSSTPITYWFPAYL  
 LQDREPLLRCDVDTAPQKLENSPPGQKAPRNCVMKLLYNWKTCSPTKCI L VYFLTYWLLGLIMHCNFLP  
 WT

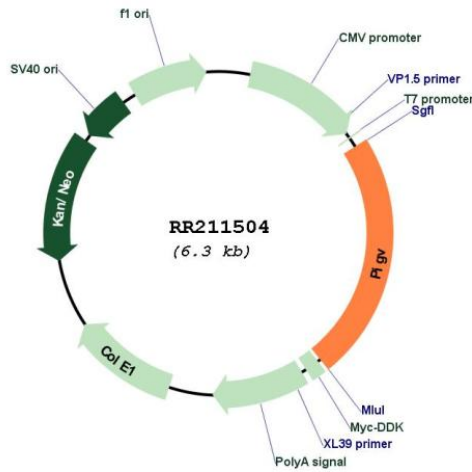
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



**Plasmid Map:**



**ACCN:** NM\_001010966

**ORF Size:** 1476 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\\_001010966.1](#), [NP\\_001010966.1](#)

**RefSeq Size:** 2429 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 366478

**UniProt ID:** [Q5KR61](#)

**Cytogenetics:** 5q36

**MW:** 54.7 kDa

**Gene Summary:** Alpha-1,6-mannosyltransferase involved in glycosylphosphatidylinositol-anchor biosynthesis. Transfers the second mannose to the glycosylphosphatidylinositol during GPI precursor assembly (By similarity).[UniProtKB/Swiss-Prot Function]