

Product datasheet for **RR213989**

Pigb (NM_001108166) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigb (NM_001108166) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213989 representing NM_001108166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGAGACCCGCGATCACAGCACGGCCTTCCGCAATCTCCACAGCAGCTCTGGAGAGATGAAGC
 TGC GGAAGAGGAAGTCCACGCAGTATGTGATCGCTCAGGAGAAGCGCTCTCGGCGCGTGATCTTCTTGG
 AGAAAACACTTACCTGGTCTTGTACCATTGCTCTGCGAATATTTAACTGCTTCTTAGTCCAGACAAGT
 TTTGTTCTGATGAATACTGGCAGTCTCTGGAAGTTGCACACCACATGGTTTTCGGTTATGGCTATTTGA
 CCTGGGAATGGACAGAGAGACTGAGAGGTTACACTTATCCCTAATCTTTGCAAGCATTTACAAGATTCT
 GCATCTTCTGGGAAAGACAGTGTCAATTACTGATCTGGATTCCAGACTTGGCCAAGCTCTTCTGTCT
 GCTGTAGCAGACCTAAGGCTTTACTCCCTCACGAAGCAGCTGGAAAACCAGGAAGTGGCACGATGGGTGT
 TTTTCTGCCAGCTGTGTTCTGGTTCACGTGGTACTGCTGTACCCGAACCCTCACAAACACCATGGAGAC
 TGCCCTCACTGCCGTTGCCCTTTTCTACTATCCTCTGGAAGGCTCGAGGTCGAAGAACAGTGTCAAGTAC
 TCCTCTGGTGGCACTTGTGTGTGGTCCGCCCCACAGCACTTATCCCGTGGGTGCCGTTACTCTTCA
 GACATCTACCAAGAACAGAGAAAGCTCCACCTGACGCTGCATCATTTTTTACCCGTAGGATTCATTAC
 CTTCAGTTTGTCTCTGATAATTGATCGTATCTTTTTTGGCCAATGGACGCTGGTCCAGTTAACTTTTTG
 AAATTTAACGTGCTGCAGAACTTGGGGACATTTTATGGCTCTCACCCATGGCACTGGTACTTCAGTCAAG
 GGTTTCCAGTTGTCTGGGGACCACTTACCCTTCTTATTACGGTTGCTTCTGGCCCTAGGAGGCT
 CAACATACTGTGCTGGCCGTGCTGTGGACACTGCTAGTGTACAGCATGTTGGGCCACAAAGAATTGAGA
 TTTATCTATCCAGTTTACCATTTTGCATGGTCTTCAAATGTGCTGCTGGCACTACACTGGCCTAGTTCA
 GGAAGGCAGCTCTGAGCTTCTGCTCTTGTCAAATGTGCTGCTGGCACTACACTGGCCTAGTTCA
 GAGAGGCAGCTGGACGTCATGAGTCACATTGAGAAAGTCTGCCCCAGAGGCCCTGACCCAGCTCCGCCC
 TCAGTATTCATCATGATGCCCTGCCACTCCACGCCTTACTACAGCCATGTTCACTGCCCACTGTCCATGC
 GGTTTCTCCAGTGTCCCCAGACTTACTGGAATACTCAGTATCTTGTGGAAGCAGATACGTTCTACTT
 AAACCCCTTAGGCTGGTTACAACAAGAGTTTACAGCAATGTGCTACTCCCACTCACTTGGTCACTTCC
 AATGTTCTGGAGAAGGAGATCCATGCCTTCTCACCTCAGGGAATATGAGAGGACTGCTACTTTCTTCC
 ACACTATTGGCCAGAGCGTCAACTGGCAGTCACATACATGTCTACGAGCGGAGGTTAACCAGCAGAGT
 CAGCACAGGAGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213989 representing NM_001108166
 Red=Cloning site Green=Tags(s)

MEPETRDHSTAFRNLHSSSGEMKLRKRKSTQYVIAQEKRSRRRDLLGENTYLVLFITIALRIFNCFVQTS
 FVPDEYQSLVAHMHVFGYGYLTWEWTERLRGYTYPLIFASIYKILHLLGKDSVQLLIWIPRLGQALLS
 AVADLRLYSLTKLENQEVARWVFFCQLCSWFTWYCCTRTLNTMETALTAVALFYYPLEGRSRSKNSVKY
 SLLVALACVVRPTALIPWVPLLFRHLYQEQRKHLHLHHFLPVGFITFSLSLIDRIFFGQWTLVQFNFL
 KFNVLQNLGTFYGSHPWHWYFSQGFVVLGTHLPFFIHGCF LAPRRLNILLAVLWTLVYSMLGHKEFR
 FIYPVLPFCMVF CGYSLAHLKAWRKAALSFLLLSNVLLALYTGLVHQRGTLDMVSHIQKVCPRGPD PAPA
 SVFIMMPCHSTPYSHVHCPLSMRFLQCPPDLTGKTQYLDEADTFYLNPLGWLQEQEFHSNVSLPHLVTF
 NVLEKEIHAFLTSGNYERTATFFHTHWPERRTGSHIHVYERRLTSRVSTGGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001108166

ORF Size: 1626 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_001108166.3](#), [NP_001101636.3](#)

RefSeq Size: 2189 bp

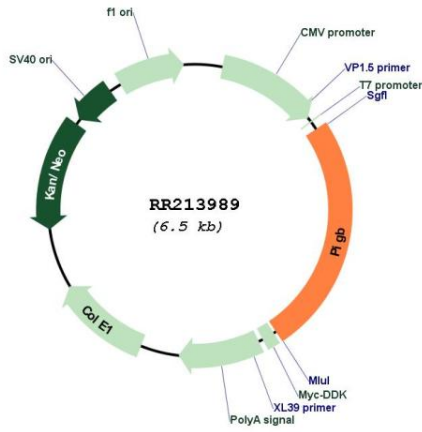
RefSeq ORF: 1629 bp

Locus ID: 315807

Cytogenetics: 8q24

MW: 63.2 kDa

Product images:



Circular map for RR213989