

Product datasheet for **RR205734**

Pigw (NM_194461) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigw (NM_194461) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigw
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205734 representing NM_194461
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCAAAGCAGCTGAAGGAAGCTTTGTGTCAGTAACCTCAGTGGACCAGTGTCTGGAAGTGACCC
 AGGGCCTGTGCTTTCCTGCGTTCGTATCCTGTGTAGAGGCCCTTGATCATTCTCACAGCATTGTG
 CTCTTTCTTGACACCTGGACCACACAATCTTCATGGACTTTGTTGTCTTGATAGTCCCCCTAGTGATC
 ACTCTGACTGTATTGTCTTCTTTATCCTCCTTGAGAATCTCACTGTGATTCTCTGTGGGCGTGCTGT
 TGTATCAGATATACCACAGGAGGACTTGCTATGCCAAAGTACCTGTCCAGAAAGTCTTGAAGCTTCTT
 GAAAATCAGCCTAGAATCAGAGTACAATCCAGCCATCACCTGTTACCGGGTCATTAACAGTGTATTTACT
 GCTATTGCCATTTGGCTGTGGATTTCCACTTTCCCTAGAAGATTTGCCAAAAGTGAAGTTTATGGGA
 CAGGAGCAATGGATTTGGAGTAGGTGGCTTTATTTTGGGGCTGCAATGGTTTGCCAGAGTTAGAAG
 GAAATATACAGAAGGGTCTAGATTAATCATCTTAGAAAATCGCTGTATTCTGTCTGGCCATTAGTCTTC
 TTAGGAATGGGAAGGTTAGTCATTATAAAAATCCATAGGCTACCAGGAACATCAACTGAGTATGGAGTTC
 ACTGGAATTTTTCTTTACCATCATAGTTGTGAAATTAATAACATCACTGCTTTTGATTATTTTCCCTT
 AAATAAGTCATGGATTGTGGCCATCAGCATTACTGTGTTGACCAGCTTGCCCTTGACTTTACTCCACTC
 AAGGGGATAATTTGTATGGCACTGATGGCAGGGGCACAAGAGTTGGCTATTAATGCTAACCGAGAGG
 GAATAATTTCCACCTTGGGGTATGTGGCAATATACATGGCTGGTGTACAAACAGGATTTTATGTGTTCAA
 GAGAAGAGCACAGGTGAGAGCTGGATAAAAGCTACTTGTGGGTATTCTCGGTGGCTGTGGCTTCTTC
 ATTTCTCTTAATATAGTGAAGTAAACGTAGAAGCAGTATCTCGAAGAATGGCCAATTTAGCCTTTTGTG
 TGTGGGTGGTGGCTCCAGCCTGATGCTGCTTGTGTTACTGAGTGGTATCGTTTTGAGTTTTGCA
 CAATTTCTAATTAAGGGGCTCTAGTTCATGTTCTTGAAACTTATACAGTCTGCTACTACAAATAGA
 CAGTCTGAATCTAATCGTAGAAGCTGAAAAGAACAACCCAGTTTTTGTGTTGATCACAGCTCTGAACA
 GAAACCAGTTGTTTTTTTCTTACTGTCAAATGTAGCAACTGGTCTGATTAACCTGACGGTGATACATT
 ACACACTGGTGCCTTTGGACCTTAGCTGTGCTTAGTATTTATATGTTTGCCAACGCTTAGTTATATAT
 GTACTTGACTTACAAGGTAACCAATAAGTTCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205734 representing NM_194461
 Red=Cloning site Green=Tags(s)

MSQKQLKEAFVSNLSGTSVLEVTQGLCFPAFCILCRGLLIIFSQHLCSFLHTWTTQFFMDFVVLIVPLVI
 TLTVLSSFILLENLTVILCGAWLLYQIYHRRTCYAKVPVQKVFASFLLKISLESEYNPAITCYRVINSVFT
 AIAILAVDFPLFPRRFKTELYGTGAMDFGVGGFIFGAAMVCPEVRRKYTEGSRFNHLRKSLSYVWPLVF
 LGMGRLLVIKISIGYQEHSTEYGVHWNFFFTIIVVKLITSLLLIIFPLNKSIVVAISITVLYQLALDFTPL
 KGIILYGTDRGTRVGLLNANREGIISTLGYVAIYMAGVQTGFYVFKRRAQVRDWIKATCWVFSVAVGGF
 ISLNIVQVNVAVSRMANLAFCLWVAVSSMLLSCLLLSGIVLSFAKFLIKGALVPCSWKLIQSATTNR
 QSESLIVEAEKNKPSFCLITALNRNQLFFLLSNVATGLINLTVDTLHTGAFWTLAVLSIYMFANCLVIY
 VLDLQGKTIKFW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_194461

ORF Size: 1506 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_194461.1](#), [NP_919443.1](#)
RefSeq Size: 1509 bp

RefSeq ORF: 1509 bp

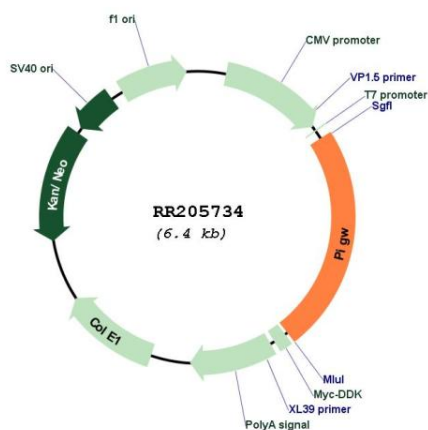
Locus ID: 378774

UniProt ID: [Q7TSN4](#)
Cytogenetics: 10q26

MW: 56.4 kDa

Gene Summary: inositol acetyltransferase enzyme [RGD, Feb 2006]

Product images:



Circular map for RR205734