

## Product datasheet for **RC201933**

### **PIM2 (NM\_006875) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIM2 (NM_006875) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201933 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGACCAAGCCTCTACAGGGGCTCCCGCGCCCCGGGACCCACGCCGCCAGGAGGCAAGG  
ATCGGGAAGCGTTCGAGGCCGAGTATCGACTCGGCCCTCTGGGTAAAGGGGGCTTTGGCACCCTCT  
CGCAGGACACCGCCTCACAGATCGACTCCAGGTGGCCATCAAAGTGATTCGCCGAATCGTGTGCTGGG  
TGGTCCCCCTTGTGAGACTCAGTCACATGCCACTCGAAGTCGCACTGCTATGAAAGTGGGTGACAGTG  
GTGGGACCCCTGGCGTGATCCGCTGCTTACTGGTTTGAGACACAGGAGGCTTCATGCTGGTCCCTCGA  
GCGGCCTTTGCCGCCCAGGATCTCTTTGACTATATCACAGAGAAGGGCCCACTGGGTGAAGGCCCAAGC  
CGCTGCTTCTTTGGCCAAGTAGTGGCAGCCATCCAGCACTGCCATTCCCGTGGAGTTGTCCATCGTGACA  
TCAAGGATGAGAACATCCTGATAGACCTACGCCGTGGCTGTGCCAACTCATTGATTTTGGTTCTGGTGC  
CCTGCTTCATGATGAACCCTACACTGACTTTGATGGGACAAGGGTGTACAGCCCCCAGAGTGGATCTCT  
CGACACCAGTACCATGCACTCCCGGCCACTGTCTGGTCACTGGGCATCCTCCTATGACATGGTGTGTG  
GGGACATTCCTTTGAGAGGGACCAGGAGATTCTGGAAGCTGAGCTCCACTTCCCAGCCCATGTCTCCCC  
AGACTGCTGTGCCCTAATCCGCCGTGCCTGGCCCCAAACCTTCTTCCGACCCCTACTGGAAGAGATC  
CTGCTGGACCCCTGGATGCAAACACCAGCCGAGGATGTACCCCTCAACCCTCCAAGGAGGCCCTGCC  
CTTTGGCCTGGTCTTGCTACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC201933 protein sequence  
Red=Cloning site Green=Tags(s)

MLTKPLQGPPAPPPTPTPPPGGKDREAFEAEYRLGPLLGGKGFVTFAGHRLTDRLQVAIKVIPRNRVLG  
 WSPLSDSVTCPLEVALLWKVAGGGHGPVIRLLDWFETQEGFMLVLERPLPAQDLFDYITEKGPLGEGPS  
 RCFFGQVVAIIQHCHSRGVVHRDIKDENILIDLRRGCAKLIDFGSGALLHDEPYTDFDGRVYSPPEWIS  
 RHQYHALPATVWSLGILLYDMVCGDIPFERDQEILEAELHFPAAHVSPDCCALIRRCLAPKPSRPSLEEI  
 LLDPWMQTPAEDVPLNPSKGGPAPLAWSLLP

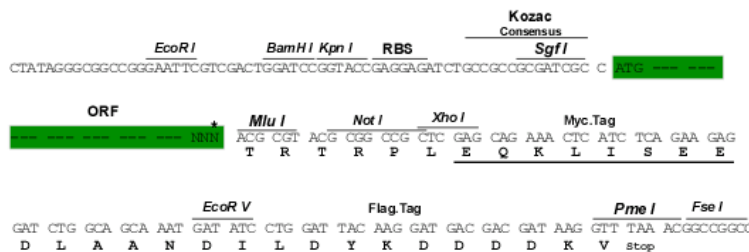
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6012\\_f01.zip](https://cdn.origene.com/chromatograms/mk6012_f01.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_006875

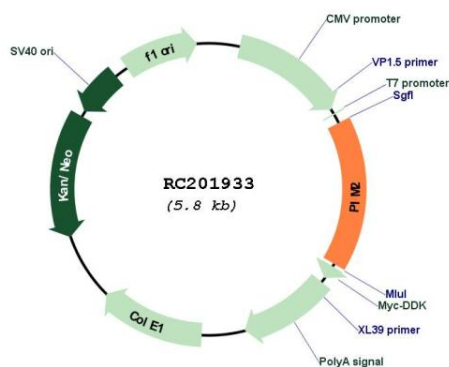
**ORF Size:** 933 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

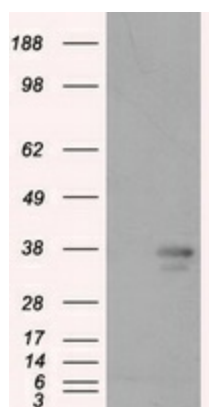
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_006875.4</a></u>
<b>RefSeq Size:</b>	2234 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	11040
<b>UniProt ID:</b>	<u><a href="#">Q9P1W9</a></u>
<b>Cytogenetics:</b>	Xp11.23
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Acute myeloid leukemia
<b>MW:</b>	34.2 kDa
<b>Gene Summary:</b>	This gene encodes a protooncogene that acts as a serine/threonine protein kinase. Studies determined the encoded protein functions to prevent apoptosis and to promote cell survival. [provided by RefSeq, Nov 2009]

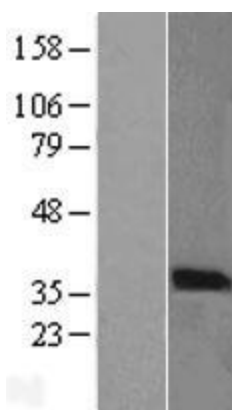
Product images:



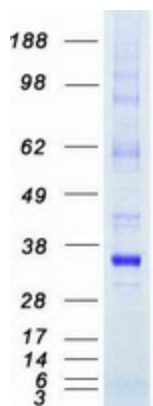
Circular map for RC201933



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PIM2 (Cat# RC201933, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PIM2 (Cat# [TA501060]). Positive lysates [LY416355] (100ug) and [LC416355] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201933 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PIM2 protein (Cat# [TP301933]). The protein was produced from HEK293T cells transfected with PIM2 cDNA clone (Cat# RC201933) using MegaTran 2.0 (Cat# [TT210002]).