

Product datasheet for **SC323418**

PIM2 (NM_006875) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIM2 (NM_006875) Human Untagged Clone
Tag: Tag Free
Symbol: PIM2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >OriGene ORF within SC323418 sequence for NM_006875 edited (data generated by NextGen Sequencing)

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ATGTTGACCAAGCCTCTACAGGGGCTCCCGCGCCCCCGGGACCCACGCCGCCCA  
GGAGGCAAGGATCGGGAAGCGTTCGAGGCCGAGTATCGACTCGGCCCTCCTGGTAAG  
GGGGGCTTTGGCACCGTCTTCGCAGGACACCGCCTCACAGATCGACTCCAGGTGGCCATC  
AYGGTGATCCCCGGAATCGTGTGCTGGGCTGGTCCCCCTTGTCAGACTCAGTCACATGC  
CCACTCGAAGTCGCACTGCTATGGAAAGTGGGTGCAGGTGGTGGGCACCCTGGCGTGATC  
CGCCTGCTTGACTGGTTTGAGACACAGGAGGGCTTCATGCTGGTCTCGAGCGGCCTTTG  
CCCGCCCAGGATCTTTTGACTATATCACAGAGAAGGGCCCACTGGGTGAAGGCCAAGC  
CGCTGCTTCTTTGGCCAAGTAGTGGCAGCCATCCAGCACTGCCATTCCCCTGGAGTTGTC  
CATCGTGACATCAAGGATGAGAACATCCTGATAGACCTACGCCGTGGCTGTGCCAACTC  
ATTGATTTTGGTTCTGGTGCCCTGCTTCATGATGAACCTACACTGACTTTGATGGGACA  
AGGGTGTACAGCCCCCAGAGTGGATCTCTCGACACCAAGTACCATGCACTCCCGGCCACT  
GTCTGGTCACTGGGCATCCTCCTCTATGACATGGTGTGTGGGACATTCCCTTTGAGAGG  
GACCAGGAGATTCTGGAAGCTGAGCTCCACTTCCCAGCCCATGTCTCCCAGACTGCTGT  
GCCCTAATCCGCCGGTGCCTGGCCCCAAACCTTCTTCCCGACCCTCACTGGAAGAGATC  
CTGCTGGACCCCTGGATGCAAACACCAGCCGAGGATGTACCCCTCAACCCCTCAAAGGA  
GGCCCTGCCCTTTGGCCTGGTCTTGTACCTAA
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Clone variation with respect to NM_006875.3
182 a=>y;183 a=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_006875 unedited ACCGCCGTTTCAGCAATGGGCGGTAGGCGGTACGGCGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGATGTTGACCAAGCCT CTACAGGGGCTCCCGCGCCCCCGGGACCCACGCCGCCAGGAGGCAAGGATCGGGAAGCGTTTCG AGGCCGAGTATCGACTCGCCCCCTCTGGGTAAGGGGGGCTTTGGCACCGTCTTCGCAGGACACCGCT CACAGATCGACTCCAGGTGGCCATCATGGTGATTCCCCGGAATCGTGTGCTGGGTGGTGGCACCCTGT GTGTCTCAGTCACATGCCCACTCGAAGTCGCACTGCTATGGAAAGTGGGTGCAGGTGGTGGCACCCTGC GTGATCCGCTGCTTACTGTTTGGAGACACAGGAGGCTTCATGCTGGTCCCTCGAGCGCCTTGGCCGCC AGGATTCTCTTACTTATATCCACAGAGAAGCCCACTGGGTGAAGCCCAAGCCGCTGCTTCTTGAAGT ATGGCAGCATCAGCACTGCATTCATGAAGTTGTCATCGTACTCAAGATGAAAACCATCTTGATAGACC TACGGCTGGGCTGTGCAAATCTATTGGATTTGTTTCTGGTGCTCTGCTTCGTGATGAACCTTACCTTGA CTTGAGTGGCACAGGGTGTACGGCCCCAATGTGTATTCTTGACACAGATACATAGTCATCCGGACAGT TGTGATATTGACTCCTTAAGAGTGTGTGGGACATTCTTTAGAGCACAAGAATTCGAGAATCAGTATCTT ATCTAGCACACAGTGTCCAATGCTTGTGCCTATACGGTGTGCGGCCCAACTTCGACACTGGAATCGTG TGCAACCGTATTACACC
Kinase Domain Sequence:	>SC323418 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSACTGMGCATGGGCGGTAGGCGGTGACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGATGTTGACCAAGCCTTACA GGGGCTCCCGCGCCCCCGGGACCCACGCCGCCAGGAGGCAAGGATCGGGAAGCGTTTCGAGGCC GAGTATCGACTCGCCCCCTCTGGGTAAGGGGGGCTTTGGCACC
Restriction Sites:	Please inquire
ACCN:	NM_006875
Insert Size:	2000 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 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
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	<ol style="list-style-type: none">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_006875.2 , NP_006866.2
RefSeq Size:	2101 bp
RefSeq ORF:	936 bp
Locus ID:	11040
UniProt ID:	Q9P1W9
Cytogenetics:	Xp11.23
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Acute myeloid leukemia
Gene Summary:	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]