

Product datasheet for **SC331967**

PIM1 (NM_001243186) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIM1 (NM_001243186) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIM1
Synonyms:	PIM
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001243186, the custom clone sequence may differ by one or more nucleotides

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CTGCCGCACGAGCCCCACGAGCCGCTACCCCGCCGTTCTCAGCGCTGCCCGACCCCGCTGGCGCGCCCT
CCC GCCAGTCCC GCCAGCGCCCTCAGTTGTCTCCGACTCGCCCTCGGCCTCCGCGCCAGCCGCAG
CCACAGCCGCAACGCCACCCGCAGCCACAGCCACAGCCACAGCCCGGATAGCCTTCGGCACAGCCCC
GGCTCCGGCTCCTGCGGCAGTCTCTGGGCACCGTCCCTGCGCCGACATCCTGGAGTTGGGATGCTCT
TGTCAAAATCAACTCGTTGCCACCTGCGCGCCGCGCCCTGCAACGACCTGCACGCCACCAAGCTGGC
GCCCGGCAAGGAGAAGGAGCCCTGGAGTCGCAGTACCAGGTGGGCCCGCTACTGGGCAGCGCGGCTTC
GGCTCGGTCTACTCAGGCATCCGCGTCTCCGACAACTTGCCGGTGGCCATCAAACACGTGGAGAAGGACC
GGATTTCCGACTGGGAGAGCTGCCTAATGGCACTCGAGTGCCCATGGAAGTGGTCTGTGAAGAAGGT
GAGCTCGGGTTTCTCCGGCGTCATTAGGCTCCTGGACTGGTTCGAGAGGCCCGACAGTTTCGTCCTGATC
CTGGAGAGGCCCGAGCCGGTGAAGATCTTTCGACTTCAACGAAAGGGGAGCCCTGCAAGAGGAGC
TGGCCCGCAGTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCACTGCCACAACGCGGGGTGCTCCACCG
CGACATCAAGGACGAAAACATCCTTATCGACCTCAATCGCGCGAGCTCAAGCTCATCGACTTCGGGTG
GGGGCGTGTCAAGGACACCGTCTACAGGACTTCGATGGGACCCGAGTGTATAGCCCTCAGAGTGGA
TCCGCTACCATCGCTACCATGGCAGGTGCGCGGAGTCTGGTCCCTGGGGATCCTGTGTATGATATGGT
GTGTGGAGATATTCCTTTCGAGCATGACGAAGAGATCATCAGGGGCCAGTTTTTCTCAGGCAGAGGGTC
TCTTCAGAATGTCAGCATCTCATTAGATGGTGCTTGGCCCTGAGACCATCAGATAGGCCAACCTTGAAG
AAATCCAGAACCATCCATGGATGCAAGATGTTCTCCTGCCCGAGAACTGCTGAGATCCACCTCCACAG
CCTGTCGCCGGGGCCAGCAAATAG
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001243186
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<u>NM_001243186.1, NP_001230115.1</u>
RefSeq Size:	2751 bp
RefSeq ORF:	1215 bp
Locus ID:	5292
UniProt ID:	<u>P11309</u>
Cytogenetics:	6p21.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, Jak-STAT signaling pathway
Gene Summary:	<p>The protein encoded by this gene belongs to the Ser/Thr protein kinase family, and PIM subfamily. This gene is expressed primarily in B-lymphoid and myeloid cell lines, and is overexpressed in hematopoietic malignancies and in prostate cancer. It plays a role in signal transduction in blood cells, contributing to both cell proliferation and survival, and thus provides a selective advantage in tumorigenesis. Both the human and orthologous mouse genes have been reported to encode two isoforms (with preferential cellular localization) resulting from the use of alternative in-frame translation initiation codons, the upstream non-AUG (CUG) and downstream AUG codons (PMIDs:16186805, 1825810).[provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) encodes two isoforms resulting from the use of alternate in-frame, translation initiation codons. This RefSeq represents the longer isoform (1, also known as Pim-1L) derived from the use of an upstream non-AUG (CUG) start codon (at nt 158-160). Pim-1L has been shown to localize primarily on the plasma membrane, and to confer resistance to chemotherapeutic drugs in prostate cancer cells (PMID:16186805).</p>