

## Product datasheet for **RG205853**

### **PIM1 (NM\_002648) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIM1 (NM_002648) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIM1
Synonyms:	PIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205853 representing NM_002648 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTGTCCAAAATCAACTCGCTTGCCACCTGCGCGCCGCGCCCTGCAACGACCTGCACGCCACCA  
AGCTGGCGCCCGCAAGGAGAAGGAGCCCTGGAGTCGCAGTACCAGGTGGGCCCGCTACTGGGCAGCGG  
CGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTCTCCGACAACTGCCGGTGGCCATCAAACACGTGGAG  
AAGGACCGGATTCGACTGGGAGAGCTGCCTAATGGCACTCGAGTGCCATGGAAGTGGTCCTGCTGA  
AGAAGGTGAGCTCGGTTTCTCCGGCGTCATTAGGCTCCTGGACTGGTTCGAGAGGCCCGACAGTTTCGT  
CCTGATCCTGGAGAGGCCCGAGCCGGTGAAGATCTCTTCGACTTCATCACGAAAAGGGAGCCCTGCAA  
GAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCACTGCCACAACCTGCGGGGTGC  
TCCACCGCGACATCAAGGACGAAAACATCCTTATCGACCTCAATCGCGGCGAGCTCAAGCTCATCGACTT  
CGGGTTCGGGGCGCTGCTCAAGGACACCGTCTACACGGACTTCGATGGGACCCGAGTGTATAGCCCTCCA  
GAGTGGATCCGCTACCATCGCTACCATGGCAGGTGCGCGGCGAGTCTGGTCCCTGGGGATCCTGCTGTATG  
ATATGGTGTGGAGATATTCCTTTCGAGCATGACGAAGATCATCAGGGGCCAGGTTTCTTCAGGCA  
GAGGGTCTCTTCAGAATGTCAGCATCTCATTAGATGGTGTCTGGCCCTGAGACCATCAGATAGGCCAACCC  
TTCGAAGAAATCCAGAACCATCCATGGATGCAAGATGTTCTCTGCCCGGAACTGCTGAGATCCACC  
TCCACAGCCTGTCGCCGGGGCCAGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205853 representing NM\_002648  
 Red=Cloning site Green=Tags(s)

MLLSKINSLAHLRAAPCNDLHATKLAGKKEPLESQYQVGPLLGSGGFGSVYSGIRVSDNLPVAIKHVE  
 KDRISDWGELPNGTRVPMEVLLKKVSSGFSVIRLLDWFERPDSFVLI LERPEPVQDLDFDITERGALQ  
 EELARSFFWQVLEAVRHCHNCGVLHRDIKDENILIDLNRGELKLIDFGSGALLKDTVYTFDGT RVYSPP  
 EWIRYHRHYGRSAAVWSLGILLYDMVCGDIPFEHDEEIIIRGQVFFRQRVSECCQHLIRWCLALRPSDRPT  
 FEEIQNHPWMQDVLLPQETA E IHLHLSLSPGPSK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002648

**ORF Size:** 939 bp

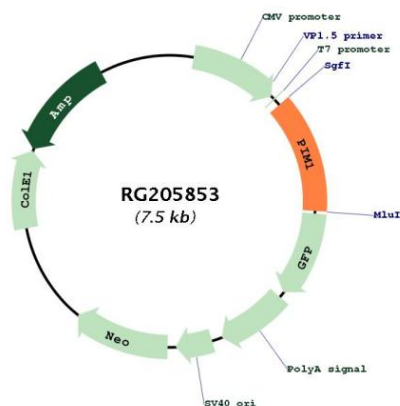
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>	<a href="#">NM_002648.4</a>
<b>RefSeq Size:</b>	2684 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	5292
<b>UniProt ID:</b>	<a href="#">P11309</a>
<b>Cytogenetics:</b>	6p21.2
<b>Domains:</b>	pkinese, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
<b>Protein Pathways:</b>	Acute myeloid leukemia, Jak-STAT signaling pathway
<b>Gene Summary:</b>	<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>

Product images:



Circular map for RG205853