

## Product datasheet for **SC127612**

### **PITRM1 (NM\_014968) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PITRM1 (NM_014968) Human Untagged Clone
Tag:	Tag Free
Symbol:	PITRM1
Synonyms:	hMP1; KIAA1104; metalloprotease 1; metalloprotease 1 (pitrilysin family); MGC138192; MGC141929; MP1; OTTHUMP00000044698; pitrilysin metallopeptidase 1; pitrilysin metalloproteinase 1; PreP; PreP peptidasome
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_014968, the custom clone sequence may differ by one or more nucleotides

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ATGTGAAATCTTCTTCCAGTACATAGCTTCTTGTCTGGAACCATGATGGGGACCTGTGGAGCTTTGA
AGTTGGGAAATCAGTTAGCTAAATTCAGACAGTGCCTGCAGGAAAATCCAAAATTTTTGCAAGAAAAAGT
AAAACAGTATTTTAAGAATAACCAGCATAAGCTGACTTTATCGATGAGGCCAGATGACAAGTATCAGCAG
AAGCAGGCACAGGTGGAAGCCACGAAGCTCAAGCAGAAGGTCGAGGCTCTGTCCCCGGAGACAGGCAGC
AGATCTACGAGAAAGGTCTAGAATTACGGAGTCAACAAAGCAAACCTCAAGATGCCTCTTGTCTGCCAGC
GTTGAAAGTTTCCGATATTGAACCCACCATACCTGTCACAGAGTTGGACGTGGTCTGACAGCTGGAGAT
ATCCCTGTTTCACTACTGCGCCAGCCACCAATGGCATGGTGTATTTCCGGGCCTTCTCCAGCCTGAACA
CACTCCCCGAGGAGCTGAGGCCCTATGTGCCCTCTTCTGCAGCGTCTCACCAAGCTGGGCTGCGGCCCT
TCTTGACTACCGGAGCAGGCTCAGCAGATAGAATTGAAGACCGGAGGGATGAGTGCTTCTCCACAGTG
CTCCCCGAGACTCACACATGGACACCTACGAGCAGGGTGTGCTTTTCTCCTCTCTGCTGGATCGAA
ACCTGCCAGACATGATGCAGCTATGGAGTAAAATATTTAAACAACCCGTGCTTTGAAGAAGAGGAGCACTT
CAAGGTGCTGGTGAAGATGACCGCCAGGAGCTCGCCAATGGAATTCCTGACTCTGGGCACCTGTACGCA
TCCATCAGGGCAGGCCGACCTCACGCCCGCAGGGGACCTGCAGGAGACCTTCAGCGGGATGGATCAGG
TGCGGCTGATGAAGAGGATTGCAGAAATGACAGATATCAAACCCATCCTGAGGAAGCTCCACAGTATCAA
GAAACACTTGTTAAATGGTGATAATATGAGGTGTTCAAGTGAATGCGACTCCTCAGCAGATGCCTCAGACA
GAAAAAGCGGTGGAAGACTTCTTAGAAGCATCGGTGGAGTAAAAAGGAACGGAGGCCCTGTGCGCCAC
ACACGGTCGAGAAACCTGTGCCAGCAGCTCTGGTGGAGATGCCACGTTCCCATGGTCCCAGGTCAT
TAGGAAGCTGGTCAATGGAACCCACCTCAAGCCCTGGCAGATGAAGACTCACTTCTGATGCCCTTCCCG
GTGAATTACGTGGTGAATGCATCCGAACCTGCCCTACACGGACCCAGATCATGCCAGCTTAAAATCC
TTGCACGTTTGTGACTGCCAAAATCTTGCATACAGAAAATTCGAGAAAAAGGCGGTGCTTATGGTGGAGG
CGCAAAACTCAGCCACAATGGGATTTTACCCTTTACTCTTACAGGGACCCAAATACAATAGAGACGCTC
CAGTCTTTTGGGAAGGCTGTGACTGGGCTAAGTCTGGAAAATTCACACAGCAAGACATCGACGAAGCCA
AACTTTCTGTCTTCTCAACCGTAGATGCTCCTGTGCTCCTTTCAGACAAAGGAATGGACCACTTCTGTGA
CGGCCTCTCGGATGAGATGAAGCAGGCCACAGAGAGCAGCTCTTTGCTGTGAGCCACGACAAGCTCCTG
GCCGTGAGCGATAGATACCTCGGCACTGGGAAGAGCACACAGGCCTGGCCATCCTCGGACCCGAGAACC
CGAAAATTGCCAAGGACCCATCCTGGATCATCCGATGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014968 unedited

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GATTTTGAATACGACTCACTATAGGGCGCCGCAATTCGGCACGAGGCTTGATTGAAT
CTGGCCTTGGCACAGACTTTTCTCCTGATGTTGGATATAATGGCTACACGAGGGAGGCCT
ACTTTAGTGTGCGCCTCCAAGGGATTGTGGAGAAAGACATTGAGACCGTCAGAAGCCTCA
TAGACAGAACGATTGATGAAGTAGTTGAGAAAGGATTTGAAGATGATCGAATTGAGGCTT
TACTTCATAAAAATTGAAATACAGATGAAACATCAGTCTACCAGCTTTGGGCTGATGCTGA
CATCATACATAGCTTCTTGTCTGGAACCATGATGGGGACCTGTGGAGCTTTGAAGTTGG
GAAATCAGTTAGCTAAATTCAGACAGTGCCTGCAGGAAAATCCAAAATTTTTGCAAGAAA
AAGTAAAACAGTATTTTAAGAATAACCAGCATAAGCTGACTTTATCGATGAGGCCAGATG
ACAAGTATCACGAGAAGCAGGCACAGGTGGAAGCCACGAAGCTCAAGCAGAAGGTCGAGG
CTCTGTCCCCGGAGACAGGCAGCAGATCTACGAGAAAGGCTAGAAATTACGGAGTCAAC
AAAGCAAACCTCAAGATGCCTCTTGTCTGCCAGCGTTGAAAGTTTCCGATATTGAACCCA
CCATACCTGTACAGAGTTGGACGTGGTCTGACAGCTGGAGATATCCCTGTTTCACTACT
GCGCCCAGCCCACCAATGGCATGGTGTATNTNCGGGCCTTCTNNCAGCCTGACACTCC
CCCGAGGAGCTGAGGCCATGTGCCCTCTTCTGCAGCGTNTCTACCAAGCTGGGCTGCG
GGCTTCTTACTACCGGNAGCAGGCTCAGCANATAGAATTTGAGACCGGG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014968 unedited TATGTACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCAGATTGCCCT TTATTTTTAGATTCTTAAATATTCTAAAATGAGGTAAAACGAGCCTGCCAGTACAAAGT GAAAATCTACATGGTGCATCTTTGGCGCTTCATGCATGATTATTTCAATGAACCTCTTC CTGGTCACTCTTAAGATAGATCTGAGTTTTGACTCGCCAGTCAAGGGCTTTGGCGACAC TCAATGACATAATATTCTTGAAAAAGCAGTAGCATTCTGACTTTTCATATTCAGCTCG GAGGTGATTGTCTCGGGCTCCTGTGCAGTCGAGCGCCACGGCTGCTCATTGGATGATCC AGGATGGTCTTGGCAATTTTCGGGTTCTCGGGTCCGAGGATGGCCAGGCCGTGTGTGC TTTTCCAGTGCCGAGGTACCTATCGCTCACGGCCAGGAGCCTTGTCTGGCTGACAGCA AAGAGCTGCTCTGTGGGCTGCTTCATCTCATCCGAAAGGCCGTACACAACAGCGGCC CCTTCTTTGTCTGAAGGAGCGACAGGCCATCTACGGATGATAAGACACAACGTTTGG CCTTCTCGATGTCTTGTGCGGGAATTTCAAACCTTACCCATTCGACAGCCTTCCCAA GACTGCACCGCTTTTATGCATATGGGTCCCCGGCACGAACAAAGGTGAAAACCTCATTG GGCTGAATCTTACCCCCCCCCATAACCCCCCTTTTTCTCCCCCTCCGCCCTGCAC AATTCTCGGTTTTCAAACACGGCGGGTATTTAAAACCTGCCACCACCCCGGTCCCCC CCGCGGACCACCCCGAACACCACCCCCACCACCCCCCGCGCGCGCCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014968
<b>Insert Size:</b>	2570 bp
<b>OTI Disclaimer:</b>	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).
<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>NM_014968.1, NP_055783.1</u>
<b>RefSeq Size:</b>	2579 bp
<b>RefSeq ORF:</b>	1788 bp
<b>Locus ID:</b>	10531
<b>Cytogenetics:</b>	10p15.2
<b>Domains:</b>	Peptidase_M16_C
<b>Protein Families:</b>	Druggable Genome, Protease

**Gene Summary:**

The protein encoded by this gene is an ATP-dependent metalloprotease that degrades post-cleavage mitochondrial transit peptides. The encoded protein binds zinc and can also degrade amyloid beta A4 protein, suggesting a possible role in Alzheimer's disease. [provided by RefSeq, Dec 2016]