

## Product datasheet for **SC107174**

### Signal Peptide Peptidase (HM13) (NM\_178582) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Signal Peptide Peptidase (HM13) (NM_178582) Human Untagged Clone
Tag:	Tag Free
Symbol:	Signal Peptide Peptidase
Synonyms:	H13; IMP1; IMPAS; IMPAS-1; MSTP086; PSENL3; PSL3; SPP; SPPL1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107174 sequence for NM_178582 edited (data generated by NextGen Sequencing)

```
ATGGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGAGGCAGGCGGCCACCAAC
AGCACTACGCGGCCGCTTCCACGCCCGAGGGCATCGCGCTGGCCTACGGCAGCCTCCTG
CTCATGGCGCTGCTGCCATCTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCGCGGC
AAGAATGCTTCAGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCCGCTTCCCACATC
ATCGCCAGCTGCACACTTTGGGGCTCTACCTCTTTTTCAAATATTCTCCCAGGAGTAC
ATCAACCTCCTGCTGTCCATGTATTTCTCGTGTGGGAATCCTGGCCCTGTCCCACACC
ATCAGGTCAGAAGGCATCTCTGCAACATTTGAAGCAGCTTTCTCGGGAACCAGTACAG
GGTCTTGATGA
```

Clone variation with respect to NM\_178582.1



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_178582 unedited  
 GTATACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGGGGGGAACGTGGCTTTCCC  
 TGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACCCGAGCTGGAGTCGGATCC  
 CGAACGCACCCTCTCCATGGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGAGGC  
 AGGCGGCCCCACCAACAGCACTACGCGGCCGCTTCCACGCCGAGGGCATCGCGCTGGC  
 CTACGGCAGCCTCTGCTCATGGCGTGTGCCATCTTCTTCGGCGCCCTGCGTCCGT  
 ACGTGTGCGCCCGGCAAGAATGCTTCAGACATGCCTGAAACAATCACCAGCCGGATGC  
 CGCCCGTTCCCATCATCGCCAGCTGCACACTTTGGGGCTCTACCTCTTTTTCAAAT  
 ATTCTCCAGGAGTACATCAACCTCTGCTGTCCATGTATTTCTCGTGTGGGAATCCT  
 GGCCCTGTCCCACACCATCAGGTCAGAAGGCATCTCTGCAACATTTGAAGCAGCTTTC  
 TCGGGAACAGTACAGGGTCTTGGATGAGAACATGACTTTTGGCATATTCAGAGCCAGG  
 TTTGAATCCTGGCTATAAACTCAAGGGACTCTTCCCTGCACACTGTAGATGACTAGG  
 ACAAGAACAATGACCTCTCTGGGCCACAGTTTCTTATAGACTGANGANGATCTGGTNGG  
 GGTGTTTCCACCACCACAGCTGNTGNGAAAGTATTTGTGAGCAGTATGCATGTTNAG  
 TGTGACAGTACTCAGGTGGAGTACACCAGTACACTGCCCGGGGGGTGTGCCCTAACTGT  
 GTGCTAGTGGCCATGGTGGGCTTACACATGGAATCGTGTTCGTAAAGGAGCANAGGCAC  
 TATTGAAAGTTTNGGACG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_178582 unedited  
 CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGATGGAGTCTCACTCT  
 GTCGCCAGGCTGGAATGCAGTGGTGAATCTCGGCTCACTGCAACCTCCGCCTCCAGGT  
 TCAATGATTCTCCTACCTCAGCCTCCTGAGTAGCTGGGACTACAGGCATGCACCACCATG  
 CCCAGCTAATTTTTTTGTATTTTGTAGTAGAGACGGGGTTTACCATGTTGGCCAGGATGG  
 TCTCAAGCTCCTGACCTGTGATCCGCCTGCCTTGGCCTCCCAAAGTGTGGGATTACAG  
 GCATGAGCCACCCTGGCCTCATATTGGCTTTCAATGCTTTTGGGAGCAGATTCTGCC  
 ATGCCCTCAATGTGCACAACTTTCTAGCACCTGACCTCTCCCTCCTTTGTACGTCTTCC  
 AGGTTTCTACCTTCAAAGAAAGCTAAGTTCAAGGTGAGTTCCTTCTTCTGGGAACCC  
 TGGCCACCTCTTGGTCTATCAGGGTTTCTCAGCCTGAGGCTGCACCTCTTCAACGGGGCA  
 GAAAGAAACATACTGGGACATCTCTGTAGTCACCAAGCTGGGGAATACTGGTATGCCACT  
 TCCATTTGGTGAAGCAAGGCAAGGGTTGCCAACTGTTTGAATACATGCGATACCCCTGCA  
 GAATGGAGAACTGGCCTGTCCAAAAAAGTAGCACCCCTCTATGACCCTTTCCCA  
 ATGATAGACCCGAGCATGGGACAGTTGAATTATGTAACACAGGAAATAGATGGCGCTT  
 GAAGCAACCTGGGTTGAACCCTGCCCTGCGCCTATAATGGGGAAACCCACAAAATTTT  
 AACCTTGGGGTTCAGTTTACGGCCATCAACAGCGGGAAGCCAAACCCCTTTAGGGTG  
 GTTGCNCGGTACCCACAATAGGACGTCACCTAAATCCCTGACACCTTTAACCCATATAC  
 GGGTTAAAGCTCTCCACGACCCCGGAAGGGGCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_178582

**Insert Size:**

1880 bp

**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).

**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:**

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\\_178582.1](#), [NP\\_848697.1](#)

**RefSeq Size:** 2011 bp

**RefSeq ORF:** 432 bp

**Locus ID:** 81502

**UniProt ID:** [Q8TCT9](#)

**Cytogenetics:** 20q11.21

**Protein Families:** Protease, Transmembrane

**Gene Summary:** The protein encoded by this gene, which localizes to the endoplasmic reticulum, catalyzes intramembrane proteolysis of some signal peptides after they have been cleaved from a preprotein. This activity is required to generate signal sequence-derived human lymphocyte antigen-E epitopes that are recognized by the immune system, and to process hepatitis C virus core protein. The encoded protein is an integral membrane protein with sequence motifs characteristic of the presenilin-type aspartic proteases. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (4) contains an alternate segment compared to variant 1, that causes a frameshift. The resulting isoform (4) is shorter and has a distinct C-terminus compared to isoform 1.