

## Product datasheet for **SC310406**

### Signal Peptide Peptidase (HM13) (NM\_178581) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Signal Peptide Peptidase (HM13) (NM_178581) Human Untagged Clone
Tag:	Tag Free
Symbol:	HM13
Synonyms:	H13; IMP1; IMPAS; IMPAS-1; MSTP086; PSENL3; PSL3; SPP; SPPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310406 representing NM_178581. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGAGGCAGGCGGCCACCAACAGCACTACG
CGGCCGCTTCCACGCCCGAGGGCATCGCGCTGGCCTACGGCAGCCTCCTGCTCATGGCGCTGCTGCC
ATCTTCTCGGCGCCCTGCGCTCCGTACGCTGCGCCCGCGGAAGAATGCTTCAGACATGCCTGAAACA
ATCACCAGCCGGGATGCCGCCGCTTCCCACATCATGCCAGCTGCACACTTTGGGGCTCTACCTCTTT
TTCAAAATATTCTCCAGGAGTACATCAACCTCCTGCTGTCCATGATTTCTTCGTGCTGGGAATCTG
GCCCTGTCCACACCATCAGCCCTTCATGAATAAGTTTTTCCAGCCAGCTTCCAAATCGACAGTAC
CAGCTGCTCTTACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAG
GACCTGGTGTGCCTGGGCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCC
AACAACTTTTTGGCCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACT
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ACAGTGGCCAAGTCTTCGAGGCACCAATAAAATGGTGTTCCTCCAGGATCTGCTGGAGAAAGGCCCTC
GAAGCAAACTTTGCCATGCTGGGACTTGGAGATGTCGTCATTCCAGGGATCTTATTGCCTTGCTG
CTGGCCTTTGACATCAGCTTGAAGAAGAATACCCACACCTACTTACACCAGCTTTGCAGCCTACATC
TTCGGCCTGGCCTTACCATCTTATCATGCACATCTTCAAGCATGCTCAGCCTGCCCTCCTATACCTG
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TACGAGTCTCGGCGAAATCCTGCCTCATACCCGAGGCTCACCACTTCCCCACAGTCTCGGGCTCC
CCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCGAGAATCCC
AGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGCAGTGACAGAATCCAAAGAGGGAACAGAG
GCATCAGCATCGAAGGGCTGGAGAAGAAAGAGAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	□
ACCN:	NM_178581
Insert Size:	1281 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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"><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>
RefSeq:	<a href="#">NM_178581.2</a>
RefSeq Size:	1771 bp
RefSeq ORF:	1281 bp
Locus ID:	81502
UniProt ID:	<a href="#">Q8TCT9</a>
Cytogenetics:	20q11.21
Protein Families:	Protease, Transmembrane
MW:	46.8 kDa

**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 (3) contains an alternate in-frame exon compared to variant 1, resulting in an isoform (3) which is longer compared to isoform 1.