

## Product datasheet for **SC117763**

### **S1P (MBTPS1) (NM\_003791) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	S1P (MBTPS1) (NM_003791) Human Untagged Clone
Tag:	Tag Free
Symbol:	S1P
Synonyms:	PCSK8; S1P; SEDKF; SKI-1
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\_003791, the custom clone sequence may differ by one or more nucleotides

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ATGAAGCTTGTCACATCTGGCTGCTTCTGCTCGTGGTTTTGCTCTGTGGGAAGAAACATCTGGCGACA
GACTGGAAAAGAAATCTTTTGAAGAGCCCATGCCCTGGCTGTCCACCTGACTTTGAGGTGGAATT
CTCATCAACAGTTGTGGAATATGAATATATTGTGGCTTCAATGGATACTTTACAGCCAAGCTAGAAAT
TCAATTTATTTCAAGTGCCCTGAAGAGCAGTGAAGTAGACAATTGGAGAATTATACCTCGAAAACAATCCAT
CCAGTGACTACCCTAGTGATTTTGGAGTATTGAGATAAAAAGAAAAACAGAAAGCGGGGCTGCTAACACT
TGAAGATCATCCAAACATCAAACGGGTCACGCCCAACGAAAAGTCTTTCGTTCCCTCAAGTATGCTGAA
TCTGACCCACAGTACCCGCAATGAAACCCGGTGGAGCCAGAAGTGGCAATCATCACGTCCCCTGCGAA
GAGCCAGCCTCTCCCTGGGCTCTGGCTTCTGGCATGCTACGGGAAGGCATTGAGCAGACGGCTGCTGAG
AGCCATCCCGCCAGGTTGCCAGACACTGCAGGCAGATGTGCTCTGGCAGATGGGATATACAGGTGCT
AATGTAAGAGTTGCTGTTTTGACACTGGGCTGAGCGAGAAGCATCCCCACTTCAAAAATGTGAAGGAGA
GAACCAACTGGACCAACGAGCGAACGCTGGACGATGGGTTGGGCCATGGCACATTCGTGGCAGGTGTGAT
AGCCAGCATGAGGGAGTGCCAAGGATTTGCTCCAGATGCAGAACTTCACATTTTACAGGTCTTTACCAAT
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TAAACCTCAGCATCGGCGGCCGGACTTCATGGATCATCCGTTTGTGACAAGGTGTGGGAATTAACAGC
TAACAATGTAATCATGGTTTCTGCTATTGGCAATGACGGACCTCTTATGGCACTCTGAATAACCCTGCT
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GAATGACTACCTGGGAGTACCAGGAGGCTACGGTCGCATGAAACCTGACATTGTACCTATGGTGTG
CGTGCGGGGTTCTGGCGTGAAAGGGGGTGCCGGGCCCTCTCAGGGACCAGTGTGCTTCTCCAGTGGTT
GCAGGTGCTGTACCTTGTAGTGACACAGTCCAGAAGCGTGAGCTGGTGAATCCCGGCTTATGAAGC
AGGCCCTGATCGCGTCAGCCCGGAGGCTCCCGGGGTCAACATGTTTGGCAAGGCCACGGCAAGCTCGA
TCTGCTCAGAGCCTATCAGATCCTCAACAGCTACAAGCCACAGGCAAGTTTGGAGCCAGCTACATAGAT
CTGACTGAGTGTCCCTACATGTGGCCCTACTGCTCCAGCCCATCTACTATGGAGGAATGCCGACAGTTG
TTAATGTCACCATCCTCAACGGCATGGGAGTACAGGAAGAATTGTAGATAAGCCTGACTGGCAGCCCTA
TTTGCCACAGAACGGAGACAACATTGAAGTTGCCTTCTCCTACTCCTCGGTCTTATGGCCTTGGTCGGGC
TACCTGGCCATCTCCATTTCTGTGACCAAGAAAGCGGCTTCTGGGAAGGCATTGCTCAGGGCCATGTCA
TGATCACTGTGGCTTCCCAGCAGAGACAGAGTCAAAAAATGGTGCAGAACAGACTTCAACAGTAAAGCT
CCCCATTAAGGTGAAGATAATTCCTACTCCCCCGGAAGCAAGAGAGTTCTCTGGGATCAGTACCACAAC
CTCCGCTATCCACTGGCTATTTCCCGAGGATAATTTAAGGATGAAGAATGACCCTTATAGACTGGAATG
GTGATCACATCCACCAATTTCAAGGATATGTACCAGCATCTGAGAAGCATGGGCTACTTTGTAGAGGT
CCTCGGGGCCCTTACAGTGTGTTGATGCCAGTCAAGTATGGCACTTTGCTGATGGTGGACAGTGGAGG
GAGTACTTCCCTGAAGAGATCGCAAGCTCCGGAGGGACGTGGACAACGGCCTCTCGCTCGTCATCTTCA
GTGACTGGTACAACACTTCTGTTATGAGAAAAGTGAAGTTTTATGATGAAAACACAAGGCAGTGGTGGAT
GCCGATACCGGAGGAGCTAACATCCCAGCTCTGAATGAGCTGCTGTCTGTGGAACATGGGGTTCAGC
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CGAAGTTTCCAGAAGATGGCGTCTGTATAACACAGACTTCAAGGACCAAGGATTGGAGTTTTAAAGCA
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ATGCCCTCCTCCAGTACACATCGTATGGGGTGACACCGCCTAGCCTCAGTCACTCTGGAAACCGCCAGCG
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AGCCACAGCCTTTAAACGAGACGGCGCCAGTAACCTTTGGAAACATCAGAAGCTACTCTCCATTGACCT
GGACAAGTGGTGTACCAACTTTCGATCGAATCGCCCTCAAGTGAAGCCCTTGTCCCCTGGAGAGAGC
GGCGCCTGGGACATTCCTGGAGGATCATGCCTGGCCGCTACAACCAGGAGGTGGGCCAGACCATTCTGTG
TCTTTGCCTTCTGGGAGCCATGGTGGTCTGGCCTTCTTTGTGGTACAATCAACAAGGCCAAGAGCAG
GCCGAAGCGGAGGAAGCCAGGTTGAAGCGCCCGAGCTCATGCAGCAGGTTACCCGCCAAGACCCCT
TCGGTGTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003791 unedited  
 GGGCACATTTGTATACGACTCCTATAGGCGGCNCGCGATTTCGGCACGAGGCGGCGGAGCT  
 GAGGCTCCCAGCTGTGGGCTCGCTGGCCCGGTGCGCCAGTCTCGCGAGAGTTGGGAGTA  
 AACAGCCCCGAATGGAGTGCCAGGCGTGTTCGCCGGGAGGCGCCGTTATCCCGGGCCC  
 GCCGGCCCTGAGCTCCCGGCGCGCAGATTGGCTCACAGTGGTTGATTGATCAACCCCAT  
 TGGACGTTGGTTCTGTGGTACAAATGGAGTACAGGACTCAGTCGTCACGGCCTGAGTGAG  
 AGAAGCCTTATTTCCAAGATGGAGAAGAAGCGGAGAAAGAAATGAAAGCCTCTCTTCAGG  
 CTGAACCACAAAAGGCCATGGGATTTAACTTTTATTTATGTTGGCAAGACTGTAAGATG  
 GCTGATTAGTAATGTTGCAGCTTTTAGCTGAAACAAAAATTCACTTTTAAATCAAGAAGAA  
 AAAAGTGTGATTTGAATATATGCAATTTTATGATCATATTCGCTTGTGACCATGAAGCTT  
 GTCAACATCTGGCTGCTTCTGCTCGTGGTTTTGCTCTGTGGGAAGAAACATCTGGGCGAC  
 AGACTGAAAAAGAAATCTTTTAAAAGGCCCATGCCCTGNCTGTTCCACCTGACTNTG  
 AAGGTGGAATTCTCATCAACAGTTGTGGAATATGAATATATTGTGGCTTCAATGGATAC  
 TNTACAGCCAAAGCTAGAAATTCATTTATTTCAAGTGCCCTGAGAGCAGTGAAGTAGAC  
 AATTGGAGAAATATACCTCGAANCAATNCATCCAGTGACTACCTAGTGATTTTGAGGGT  
 GATCAGATAAAGAAAAACAGAAAGCGGGTCTAACACTTGAAGACATNCAANCATCAAC  
 CGGTCACGCCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003791 unedited  
 TGCACCGCGGCACGCAATCTAGCATCGAGTTTTTTTTTTTTTTTTTAAAGCTTCAAACGG  
 GTAATACATATTTATTGAAAATTTTCTTACCAGCAATGGTGAATCAAGACCTCAAATT  
 AAAAAACATGGCGCAGGTGATACTTACAAAAATAAAGCGAAGGTCTATGTTTACAGAT  
 TAGTGCATGTTACCTTTAAATCTCAGCCTGCCTGCCATTAAGCAAGCATCATGGTATCTA  
 TGTTGTCTCTTATGATGGATTACCCAAAAAACTGCATTTCACTGACAAAAAAATATCTT  
 TGCTTGTAAATAGACAATTTTTAAAGCGACTTTTTTTCATCAATAAATATAGAAAATAT  
 CCTTACCACCTCGCCCTAACCTTGCTCACGTTTGTCTTATTTGTCCGCAAGCCATCCC  
 TTTCCCTGTTGTATCACACTGCTCACACTCTCTTTTCTACTTCCACCTATTCTTTGGTGT  
 CATCACTCTTTGACCGACAATCTTACCGGTGGCTCAATCACTAAATTCCTTCTGTCCG  
 TATCTTTAAGATTCACTCCTCATGTTTCTTACCCTCTGTACTTTAAAGATGCTCCTTC  
 CTGCTTAATATATCTTATCTATTTTTATCACATAAACTGTTTTATTTTAACTTTCTAT  
 AACACGCTCCGTTACACCATTTTTTGTTCCTATCTTATATGCCACATCTTTGGTTCCTC  
 CCCGCCACTCCTTCTTCCCTTTTTATCTCTCTAGGGTATTATTTTCAGTCGTACCTCAT  
 TCATTTGACCCCTCCCCTCCTCCCATTGATTTTCTCTCTTATCCCCTTCCCCCGAC  
 TTCTCAATATTTTATTCCCGCATTAGCCCTTATTTCTTTCGTTTTTTCTTCACTCTCTC  
 ACCGTATATAATCGACTTCCCTTCTTTTTTTATTTATTTCTCACTCCCACACGTGAA  
 TACCCTGTCCCTACCCTGGTCATAGTTTATCCCTTGTATTATCTTTCTCTCCCAA  
 TTCACATATTCATTCTACTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003791

**Insert Size:**

4650 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).

<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_003791.2, NP_003782.1</u>
<b>RefSeq Size:</b>	4354 bp
<b>RefSeq ORF:</b>	3159 bp
<b>Locus ID:</b>	8720
<b>UniProt ID:</b>	<u>Q14703</u>
<b>Cytogenetics:</b>	16q23.3-q24.1
<b>Domains:</b>	Peptidase_S8
<b>Protein Families:</b>	Druggable Genome, Protease, Transcription Factors, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to the cis/medial-Golgi where a second autocatalytic event takes place and the catalytic activity is acquired. It encodes a type 1 membrane bound protease which is ubiquitously expressed and regulates cholesterol or lipid homeostasis via cleavage of substrates at non-basic residues. Mutations in this gene may be associated with lysosomal dysfunction. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>