

## Product datasheet for **SC115313**

### TMS1 (PYCARD) (NM\_013258) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMS1 (PYCARD) (NM_013258) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMS1
Synonyms:	ASC; CARD5; TMS; TMS-1; TMS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_013258 edited GAATTCGGCACGAGGCATGGGGCGCGCGACGCCATCCTGGATGCGCTGGAGAACCT GACCGCCGAGGAGCTCAAGAAGTTCAAGCTGAAGCTGCTGTGCGTGCCGCTGCGCGAGGG CTACGGGCGCATCCCGCGGGGCGCGCTGCTGTCCATGGACGCCTTGGACCTCACCGACAA GCTGGTCAGCTTTTACCTGGAGACCTACGGCGCCGAGCTCACCGCTAACGTGCTGCGCGA CATGGGCCTGCAGGAGATGGCCGGGCGAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGC CGCGCCAGCTGGGATCCAGGCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCACTTTAT AGACCAGCACGGGCTGCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGC TCTGTACGGGAAGTCTGACGGATGAGCAGTACCAGGCAGTGCGGGCCGAGCCACCAA CCCAAGCAAGATGCGGAAGCTCTTCAGTTTACACCAGCCTGGAAGTGGACCTGCAAGGA CTTGCTCCTCCAGGCCCTAAGGGAGTCCCAGTCTACCTGGTGGAGACCTGGAGCGGAG CTGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCTGGCAATCCCACCAATATCCTCTG AATCTGATCTTTTATACACAATATACGAAAAGCCAGCTTGAAAAAAAAAAAAAAAAAAC TCGAC



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013258 unedited  
TACGACTCTCTATAGGGCGGCCGGAATTCGGCACGAGGCATGGGGCGCGCGCGACGC  
CATCCTGGATGCGCTGGAGAACCTGACCGCCGAGGAGCTCAAGAAGTTCAAGCTGAAGCT  
GCTGTCCGGTGCCGCTGCGCGAGGGCTACGGGCGCATCCCGCGGGGCGCGCTGCTGTCCAT  
GGACGCCTTGGACCTCACCGACAAGCTGGTCAGCTTTTACCTGGAGACCTACGGCGCCGA  
GCTCACCGCTAACGTGCTGCGCGACATGGGCTGCAGGAGATGGCCGGGACAGTGCAGGC  
GGCCACGCACCAGGGCTCTGGAGCCGCGCCAGCTGGGATCCAGGCCCTCCTCAGTCGGC  
AGCCAAGCCAGGCTGCACTTTATAGACCAGCACCGGGCTGCGCTTATCGCGAGGGTCAC  
AAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCCTGACCGATGAGCAGTACCA  
GGCAGTGCGGGCGAGCCACCAACCAAGCAAGATGCGGAAGCTCTTCAGTTTACACCC  
AGCCTGGAAGTGCACCTGCAAAGACTTGTCTCCAGGCCCTAAGGGAGTCCCAGTCCTA  
CCTGGTGGAGGACCTGGAACGGAGCTGAAGCTTCTCCACACACTTCCGTTAAGCCC  
CTGCCAATCCCACCAAATAATCCTGAATCTGATCTTTTATTACCTTTTACGAAAAGCCC  
CTTTGAAAAAAAAAAAAAAAAACTTACCTTAATTGCGGCCCGGGCATATTTTTTCCCTG  
ACAAATCCCCGGGGATCTCTGGAACCCCTCCCAAAGCCTTTCCTGGGCCTGAAAATTGGA  
CCTCCAGGGGCCCAACCTTGTCTAAAAAATAAAATTGCCAATTTGGTCGCCACGGGG  
GCCCTTTAAAATATCGGGGAAGGGGGGGTTCTGACCCACGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013258 unedited  
GTACCGCGCNCGCATTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTCAAGCTGGCTTTTC  
GTATATTGTGTATAAAAAGATCAGATTCAGGATGATTTGGTGGGATTGCCAGGGGCTGAC  
CGGAGTGTGCTGGGAAGGAGCCTCAGCTCCGCTCCAGGTCCTCCACCAGGTAGGACTGG  
GACTCCCTTAGGGCCTGGAGGAGCAAGTCTTGCAGGTCCAGTTCAGGCTGGTGTGAAA  
CTGAAAAGCTTCCGCATCTTGCTTGGGTTGGTGGGCTCGGCCCGACTGCCTGGTACTGC  
TCATCCGTCAGGACCTTCCCGTACAGAGCATCCACCAGCCACTCAACGTTTGTGACCCTC  
CCGATAAGCGCACCCCGGTGCTGGTCTATAAAGCGCACGCCTGGCTTGGCTGCCGACTGA  
GGAGGGGCTGGATCCCACCTGGGGCGGCTTACAGCCCTGGTGCCTGGCCGCTGCCCC  
TGCTCCGCCCTCTCTGCAGGCCCTTGCCTCCATCGCCCTCCCGGTCACTTTCCGCGCT  
CATCGTCTCCCCGTTACCCCCCTCCCTTTCTTCGCTAGCTCCCCCTTTTCTTCACT  
TCCCCCTCCCCATACCTCTTCTCCATCTCTCCGTCCTACCCGCCCTATTCTCCGCCCC  
GATTCCTGATCTCCCTCCTTTCCCGCTTCTCGCCACCCTCCCTTCTTCTTTCTCCCT  
CCCCCACCCCCCTCCCTGTCCCCACCCTCTTCAACCTCTCCCCCTTCTATCCCCCGC  
ACCCCCCCCCCTACGCCTATACGCCTCTCTAACACCCCCCGCTTCTCCCCCCCCCCC  
GTTCTCCCCCCCCCACCTCCTATTGCCTCGCCTGCCCTCCTGTTTTTCCCTGCCGCC  
ACGTCTTTCACCCATCCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_013258

**Insert Size:**

730 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>	<a href="#">NM_013258.3</a> , <a href="#">NP_037390.2</a>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	588 bp
<b>Locus ID:</b>	29108
<b>UniProt ID:</b>	<a href="#">Q9ULZ3</a>
<b>Cytogenetics:</b>	16p11.2
<b>Domains:</b>	PAAD_DAPIN
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes an adaptor protein that is composed of two protein-protein interaction domains: a N-terminal PYRIN-PAAD-DAPIN domain (PYD) and a C-terminal caspase-recruitment domain (CARD). The PYD and CARD domains are members of the six-helix bundle death domain-fold superfamily that mediates assembly of large signaling complexes in the inflammatory and apoptotic signaling pathways via the activation of caspase. In normal cells, this protein is localized to the cytoplasm; however, in cells undergoing apoptosis, it forms ball-like aggregates near the nuclear periphery. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>