

## **Product datasheet for RC215592**

## TMS1 (PYCARD) (NM 013258) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: TMS1 (PYCARD) (NM\_013258) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: TMS1

Synonyms: ASC; CARD5; TMS; TMS-1; TMS1

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-Entry (PS100001) **E. coli Selection:** Kanamycin (25 ug/mL)

ORF Nucleotide >RC215592 representing NM\_013258

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CCTGGTGGAGGACCTGGAGCGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215592 representing NM\_013258

Red=Cloning site Green=Tags(s)

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTA NVLRDMGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFIDQHRAALIARVTNVEWLLDALYGKV

LTDEQYQAVRAEPTNPSKMRKLFSFTPAWNWTCKDLLLQALRESQSYLVEDLERS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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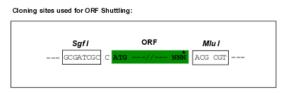


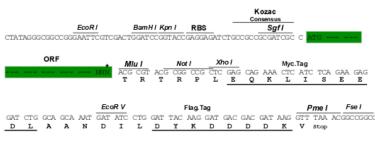
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6044">https://cdn.origene.com/chromatograms/mk6044</a> h10.zip

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_013258

ORF Size: 585 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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.

Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** NM 013258.5

RefSeq Size: 936 bp

Note:



**RefSeq ORF:** 588 bp **Locus ID:** 29108

UniProt ID:Q9ULZ3Cytogenetics:16p11.2

**Domains:** PAAD\_DAPIN

**Protein Families:** Druggable Genome

**Protein Pathways:** Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway

**MW:** 21.4 kDa

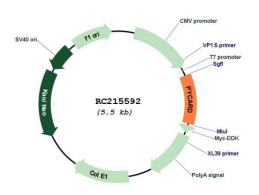
**Gene Summary:** This gene encodes an adaptor protein that is composed of two protein-protein interaction

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

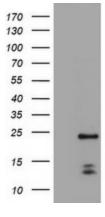
isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

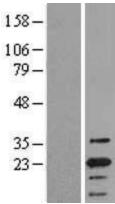
## **Product images:**

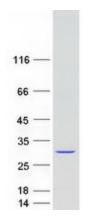


Circular map for RC215592









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PYCARD (Cat# RC215592, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PYCARD(Cat# [TA800080]). Positive lysates [LY402233] (100ug) and [LC402233] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY402233]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215592 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PYCARD protein (Cat# [TP315592]). The protein was produced from HEK293T cells transfected with PYCARD cDNA clone (Cat# RC215592) using MegaTran 2.0 (Cat# [TT210002]).