

Product datasheet for RG224051

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OriGene Technologies, Inc.

TMS1 (PYCARD) (NM_145182) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TMS1 (PYCARD) (NM_145182) Human Tagged ORF Clone

Tag: TurboGFP
Symbol: PYCARD

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

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG224051 representing NM_145182

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGTCCCAGTCCTACCTGGTGGAGGACCTGGAGCGGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224051 representing NM_145182

Red=Cloning site Green=Tags(s)

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRDMGLQEMAGQLQAATHQGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDEQYQAVRAEPTNPSKM

RKLFSFTPAWNWTCKDLLLQALRESQSYLVEDLERS

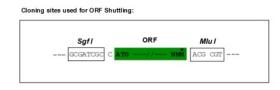
TRTRPLE - GFP Tag - V

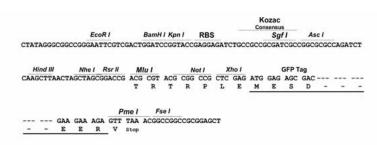
Restriction Sites: Sgfl-Mlul



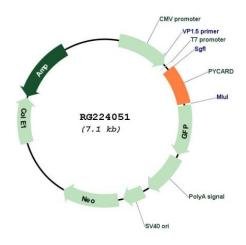


Cloning Scheme:





Plasmid Map:



ACCN: NM_145182

ORF Size: 528 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.

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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: <u>NM 145182.2</u>, <u>NP 660183.1</u>

 RefSeq Size:
 725 bp

 RefSeq ORF:
 531 bp

 Locus ID:
 29108

 UniProt ID:
 Q9ULZ3

 Cytogenetics:
 16p11.2

Domains: PAAD_DAPIN

Protein Families: Druggable Genome

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

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]