

Product datasheet for KN202409RB

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

TMS1 (PYCARD) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA:RFP-BSDSymbol:TMS1Locus ID:29108

Components: KN202409G1, TMS1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202409G2, TMS1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202409RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 013258</u>, <u>NM 145182</u>, <u>NM 145183</u>

UniProt ID: Q9ULZ3

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

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

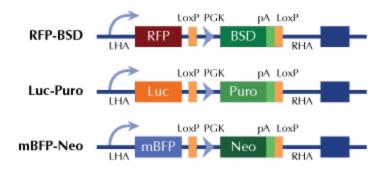
different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter