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Product datasheet for TR514512

Calcoco2 Mouse shRNA Plasmid (Locus ID 76815)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Calcoco2 Mouse shRNA Plasmid (Locus ID 76815)
Locus ID:	76815
Synonyms:	2410154J16Rik; C77254; Ndp52; Ndp52l1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Calcoco2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 76815). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001100177, NM_001271018, NM_029755, NM_029755.1, NM_029755.2, NM_029755.3, NM_001271018.1, NM_001100177.1, BC160324
UniProt ID:	A2A6M5
Summary:	Xenophagy-specific receptor required for autophagy-mediated intracellular bacteria degradation (By similarity). Acts as an effector protein of galectin-sensed membrane damage that restricts the proliferation of infecting pathogens upon entry into the cytosol by targeting LGALS8-associated bacteria for autophagy (By similarity). Initially orchestrates bacteria targeting to autophagosomes and subsequently ensures pathogen degradation by regulating pathogen-containing autophagosome maturation (By similarity). Bacteria targeting to autophagosomes relies on its interaction with MAP1LC3A, MAP1LC3B and/or GABARAPL2, whereas regulation of pathogen-containing autophagosome maturation requires the interaction with MAP3LC3C (By similarity). May play a role in ruffle formation and actin cytoskeleton organization and seems to negatively regulate constitutive secretion (By similarity).[UniProtKB/Swiss-Prot Function]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).