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Product datasheet for TL508385V

Atp11c Mouse shRNA Lentiviral Particle (Locus ID 320940)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Atp11c Mouse shRNA Lentiviral Particle (Locus ID 320940)
Locus ID:	320940
Synonyms:	A330005H02Rik; AI315324; Ig
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Atp11c - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	BC106087, NM_001001798, NM_001037863, NM_001359002, NM_001037863.1, NM_001001798.1, NM_001001798.2, NM_001001798.3, NM_001037863.2
UniProt ID:	Q9QZW0
Summary:	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. In the cell membrane of erythrocytes, it is required to maintain phosphatidylserine (PS) in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for splenic macrophages (By similarity). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. Required for B cell differentiation past the pro-B cell stage (PubMed:21423173). Seems to mediate phosphatidylserine (PS) flipping in pro-B cells (PubMed:21423172). May be involved in the transport of cholestatic bile acids (PubMed:21518881).[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).