

Product datasheet for **MR224181L4V**

Atp8a2 (NM_015803) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Atp8a2 (NM_015803) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Atp8a2
Synonyms:	agil; AI415030; Atpc1b; wl
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_015803
ORF Size:	3444 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224181).
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.
RefSeq:	NM_015803.2
RefSeq Size:	3685 bp
RefSeq ORF:	3447 bp
Locus ID:	50769
UniProt ID:	P98200
Cytogenetics:	14 C3-D1



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Gene 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. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. Reconstituted to liposomes, the ATP8A2:TMEM30A flippase complex predominantly transports phosphatidylserine (PS) and to a lesser extent phosphatidylethanolamine (PE). ATP8A2:TMEM30A may be involved in regulation of neurite outgrowth. Proposed to function in the generation and maintenance of phospholipid asymmetry in photoreceptor disk membranes and neuronal axon membranes. May be involved in vesicle trafficking in neuronal cells. Required for normal visual and auditory function; involved in photoreceptor and inner ear spiral ganglion cell survival. [UniProtKB/Swiss-Prot Function]