

Product datasheet for **MR211466L4V**

Atp1a1 (NM_144900) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Atp1a1 (NM_144900) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Atp1a1
Synonyms:	Atpa-1; BC010319
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_144900
ORF Size:	3072 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211466).
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_144900.1
RefSeq Size:	3720 bp
RefSeq ORF:	3072 bp
Locus ID:	11928
UniProt ID:	Q8VDN2
Cytogenetics:	3 44.3 cM



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Gene Summary:

This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.[UniProtKB/Swiss-Prot Function]