

Product datasheet for **RR210912L4V**

Stra6 (NM_001029924) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Stra6 (NM_001029924) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Stra6
Synonyms:	RGD1307551
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001029924
ORF Size:	2010 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR210912).
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_001029924.1 , NP_001025095.1
RefSeq Size:	2722 bp
RefSeq ORF:	2013 bp
Locus ID:	363071
UniProt ID:	Q4QR83
Cytogenetics:	8q24



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Gene Summary:

Functions as retinol transporter. Accepts all-trans retinol from the extracellular retinol-binding protein RBP4, facilitates retinol transport across the cell membrane, and then transfers retinol to the cytoplasmic retinol-binding protein RBP1. Retinol uptake is enhanced by LRAT, an enzyme that converts retinol to all-trans retinyl esters, the storage forms of vitamin A. Contributes to the activation of a signaling cascade that depends on retinol transport and LRAT-dependent generation of retinol metabolites that then trigger activation of JAK2 and its target STAT5, and ultimately increase the expression of SOCS3 and inhibit cellular responses to insulin. Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid. STRA6-mediated transport is particularly important in the eye, and under conditions of dietary vitamin A deficiency. Does not transport retinoic acid. [UniProtKB/Swiss-Prot Function]