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Product datasheet for RR214000L4V

P3h2 (NM_001025627) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	P3h2 (NM_001025627) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	P3h2
Synonyms:	Leprel1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001025627
ORF Size:	2109 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RR214000).`
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_001025627.1, NP_001020798.1
RefSeq Size:	2387 bp
RefSeq ORF:	2112 bp
Locus ID:	288016
UniProt ID:	Q4KLM6
Cytogenetics:	11q22

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Gene Summary: Prolyl 3-hydroxylase that catalyzes the post-translational formation of 3-hydroxyproline on collagens (PubMed:21757687). Contributes to proline 3-hydroxylation of collagen COL4A1 and COL1A1 in tendons, the eye sclera and in the eye lens capsule (By similarity). Has high activity with the type IV collagen COL4A1, and lower activity with COL1A1. Catalyzes hydroxylation of the first Pro in Gly-Pro-Hyp sequences where Hyp is 4-hydroxyproline. Has no activity on substrates that lack 4-hydroxyproline in the third position (By similarity). [UniProtKB/Swiss-Prot Function]