

Product datasheet for **MR216914L4V**

Rb1cc1 (NM_009826) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rb1cc1 (NM_009826) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rb1cc1
Synonyms:	2900055E04Rik; 5930404L04Rik; Cc1; FIP200; LaXp180
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_009826
ORF Size:	4767 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR216914).
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_009826.4 , NP_033956.2
RefSeq Size:	7046 bp
RefSeq ORF:	4767 bp
Locus ID:	12421
UniProt ID:	Q9ESK9
Cytogenetics:	1 A1



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Gene Summary:

Involved in autophagy (PubMed:23262492, PubMed:19258318). Regulates early events but also late events of autophagosome formation through direct interaction with Atg16L1 (PubMed:23392225, PubMed:23285000, PubMed:19258318). Required for the formation of the autophagosome-like double-membrane structure that surrounds the Salmonella-containing vacuole (SCV) during *S.typhimurium* infection and subsequent xenophagy (PubMed:21525242). Involved in repair of DNA damage caused by ionizing radiation, which subsequently improves cell survival by decreasing apoptosis (PubMed:21807966). Inhibits PTK2/FAK1 and PTK2B/PYK2 kinase activity, affecting their downstream signaling pathways (By similarity). Plays a role as a modulator of TGF-beta-signaling by restricting substrate specificity of RNF111 (PubMed:21795712). Functions as a DNA-binding transcription factor (PubMed:12095676). Is a potent regulator of the RB1 pathway through induction of RB1 expression (PubMed:15968549). Plays a crucial role in muscular differentiation (PubMed:15968549). Plays an indispensable role in fetal hematopoiesis and in the regulation of neuronal homeostasis (PubMed:19940130, PubMed:21088496).[UniProtKB/Swiss-Prot Function]