

Product datasheet for **MR226512L4V**

Rtel1 (NM_001166666) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rtel1 (NM_001166666) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rtel1
Synonyms:	AI451565; AW540478; Rtel
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001166666
ORF Size:	3510 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226512).
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_001166666.1 , NP_001160138.1
RefSeq Size:	4334 bp
RefSeq ORF:	3513 bp
Locus ID:	269400
UniProt ID:	Q0VGM9
Cytogenetics:	2 H4



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Gene Summary:

ATP-dependent DNA helicase implicated in telomere-length regulation, DNA repair and the maintenance of genomic stability. Acts as an anti-recombinase to counteract toxic recombination and limit crossover during meiosis. Regulates meiotic recombination and crossover homeostasis by physically dissociating strand invasion events and thereby promotes noncrossover repair by meiotic synthesis dependent strand annealing (SDSA) as well as disassembly of D loop recombination intermediates. Also disassembles T loops and prevents telomere fragility by counteracting telomeric G4-DNA structures, which together ensure the dynamics and stability of the telomere.[UniProtKB/Swiss-Prot Function]