

Product datasheet for **RR212682L4V**

Smarcal1 (NM_001108222) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Smarcal1 (NM_001108222) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Smarcal1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001108222
ORF Size:	2730 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR212682).
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_001108222.1 , NP_001101692.1
RefSeq Size:	3041 bp
RefSeq ORF:	2733 bp
Locus ID:	316477
UniProt ID:	B4F769
Cytogenetics:	9q33



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Gene Summary:

ATP-dependent annealing helicase that binds selectively to fork DNA relative to ssDNA or dsDNA and catalyzes the rewinding of the stably unwound DNA. Rewinds single-stranded DNA bubbles that are stably bound by replication protein A (RPA). Acts throughout the genome to reanneal stably unwound DNA, performing the opposite reaction of many enzymes, such as helicases and polymerases, that unwind DNA. May play an important role in DNA damage response by acting at stalled replication forks (By similarity).
[UniProtKB/Swiss-Prot Function]