

Product datasheet for **RR213458L4V**

Mcm8 (NM_001106514) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Mcm8 (NM_001106514) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Mcm8
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001106514
ORF Size:	2490 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR213458).
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_001106514.1 , NP_001099984.1
RefSeq Size:	3226 bp
RefSeq ORF:	2493 bp
Locus ID:	296178
UniProt ID:	D3ZVK1
Cytogenetics:	3q36



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Gene Summary:

Component of the MCM8-MCM9 complex, a complex involved in the repair of double-stranded DNA breaks (DBSs) and DNA interstrand cross-links (ICLs) by homologous recombination (HR). Required for DNA resection by the MRE11-RAD50-NBN/NBS1 (MRN) complex by recruiting the MRN complex to the repair site and by promoting the complex nuclease activity. Probably by regulating the localization of the MNR complex, indirectly regulates the recruitment of downstream effector RAD51 to DNA damage sites including DBSs and ICLs. The MCM8-MCM9 complex is dispensable for DNA replication and S phase progression. However, may play a non-essential for DNA replication: may be involved in the activation of the prereplicative complex (pre-RC) during G(1) phase by recruiting CDC6 to the origin recognition complex (ORC). Probably by regulating HR, plays a key role during gametogenesis. Stabilizes MCM9 protein.[UniProtKB/Swiss-Prot Function]