

Product datasheet for **MR226058L4V**

Tdrd1 (NM_031387) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Tdrd1 (NM_031387) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Tdrd1
Synonyms:	MTR-1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_031387
ORF Size:	3516 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226058).
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_031387.3 , NP_113564.2
RefSeq Size:	5047 bp
RefSeq ORF:	3519 bp
Locus ID:	83561
UniProt ID:	Q99MV1
Cytogenetics:	19 D2



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Gene Summary:

Plays a central role during spermatogenesis by participating in the repression transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Required for the localization of Piwi proteins to the meiotic nuage. Involved in the piRNA metabolic process by ensuring the entry of correct transcripts into the normal piRNA pool and limiting the entry of cellular transcripts into the piRNA pathway. May act by allowing the recruitment of piRNA biogenesis or loading factors that ensure the correct entry of transcripts and piRNAs into Piwi proteins. [UniProtKB/Swiss-Prot Function]