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Product datasheet for RC219472L3V

TDRD9 (NM_153046) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	TDRD9 (NM_153046) Human Tagged ORF Clone Lentiviral Particle
Symbol:	TDRD9
Synonyms:	C14orf75; HIG-1; HLS; NET54; SPGF30; SPNE
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_153046
ORF Size:	4146 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC219472).`
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_153046.2, NP_694591.2
RefSeq Size:	4782 bp
RefSeq ORF:	4149 bp
Locus ID:	122402
UniProt ID:	Q8NDG6
Cytogenetics:	14q32.33
MW:	155.5 kDa

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Gene Summary: ATP-binding RNA helicase required during spermatogenesis (PubMed:28536242). Required to repress transposable elements and prevent 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. Acts downstream of piRNA biogenesis: exclusively required for transposon silencing in the nucleus, suggesting that it acts as a nuclear effector in the nucleus together with PIWIL4. [UniProtKB/Swiss-Prot Function]