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Product datasheet for MR219928L4V

Exd1 (NM_172857) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Exd1 (NM_172857) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Exd1
Synonyms:	4932702D22Rik; Exdl1; mExd1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_172857
ORF Size:	1710 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR219928).
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_172857.2, NP_766445.1
RefSeq Size:	3143 bp
RefSeq ORF:	1713 bp
Locus ID:	241624
UniProt ID:	Q8CDF7
Cytogenetics:	2 E5

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Gene Summary: RNA-binding component of the PET complex, a multiprotein complex required for the processing of piRNAs during spermatogenesis. The piRNA metabolic process 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 transposable elements, preventing their mobilization, which is essential for the germline integrity (PubMed:26669262). The PET complex is required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs. In the PET complex, EXD1 probably acts as an RNA adapter. EXD1 is an inactive exonuclease (By similarity).[UniProtKB/Swiss-Prot Function]