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Product datasheet for MR203857L3V

Dnase1 (NM_010061) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Dnase1 (NM_010061) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Dnase1
Synonyms:	AI788650; DNaseI; Dnl1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_010061
ORF Size:	855 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR203857).`
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_010061.4, NP_034191.2
RefSeq Size:	1309 bp
RefSeq ORF:	855 bp
Locus ID:	13419
UniProt ID:	P49183
Cytogenetics:	16 2.37 cM

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Gene Summary: Serum endocuclease secreted into body fluids by a wide variety of exocrine and endocrine organs (PubMed:29191910). Expressed by non-hematopoietic tissues and preferentially cleaves protein-free DNA. Among other functions, seems to be involved in cell death by apoptosis. Binds specifically to G-actin and blocks actin polymerization (By similarity). Together with DNASE1L3, plays a key role in degrading neutrophil extracellular traps (NETs) (PubMed:29191910). NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation (PubMed:29191910). Degradation of intravascular NETs by DNASE1 and DNASE1L3 is required to prevent formation of clots that obstruct blood vessels and cause organ damage following inflammation (PubMed:29191910). [UniProtKB/Swiss-Prot Function]