

## Product datasheet for **MR222633L4V**

### Card9 (NM\_001037747) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

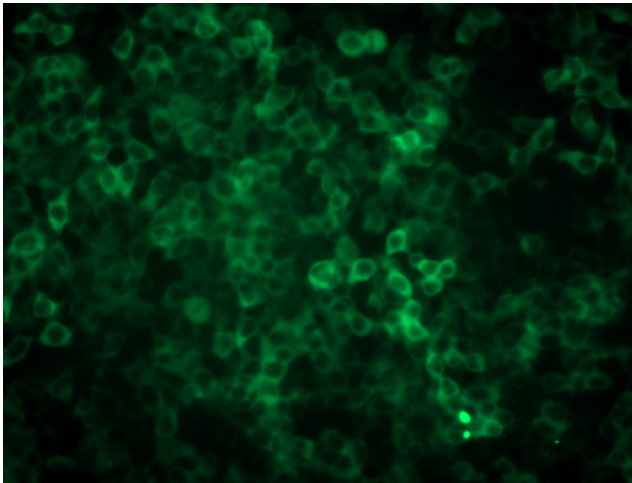
Product Type:	Lentiviral Particles
Product Name:	Card9 (NM_001037747) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Card9
Synonyms:	Gm782
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001037747
ORF Size:	1608 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222633).
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. <a href="#">More info</a>
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:	<a href="#">NM_001037747.1</a>
RefSeq Size:	1611 bp
RefSeq ORF:	1611 bp
Locus ID:	332579
UniProt ID:	<a href="#">A2AIV8</a>
Cytogenetics:	2 A3



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**Gene Summary:**

Adapter protein that plays a key role in innate immune response to a number of intracellular pathogens, such as *C.albicans* and *L.monocytogenes*. Is at the crossroads of ITAM-tyrosine kinase and the Toll-like receptors (TLR) and NOD2 signaling pathways (PubMed:17514206). Probably controls various innate immune response pathways depending on the intracellular pathogen. Controls CLEC7A (dectin-1)-mediated myeloid cell activation induced by the yeast cell wall component zymosan, leading to cytokine production and innate anti-fungal immunity: acts by regulating BCL10-MALT1-mediated NF-kappa-B activation pathway. Activates NF-kappa-B via BCL10 (PubMed:16862125). In response to the hyphal form of *C.albicans*, mediates CLEC6A (dectin-2)-induced I-kappa-B kinase ubiquitination, leading to NF-kappa-B activation via interaction with BCL10 (PubMed:20538615). In response to *L.monocytogenes* infection, acts by connecting NOD2 recognition of peptidoglycan to downstream activation of MAP kinases (MAPK) without activating NF-kappa-B (PubMed:17187069). In response to fungal infection, may be required for the development and subsequent differentiation of interleukin 17-producing T helper (TH-17) cells (PubMed:17450144). Also involved in activation of myeloid cells via classical ITAM-associated receptors and TLR: required for TLR-mediated activation of MAPK, while it is not required for TLR-induced activation of NF-kappa-B (PubMed:17486093).[UniProtKB/Swiss-Prot Function]

**Product images:**

[MR222633L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with MR222633L4V particle to overexpress human Card9-mGFP fusion protein.