

## Product datasheet for **MR222734L4V**

### Cadm1 (NM\_018770) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Cadm1 (NM_018770) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cadm1
Synonyms:	2900073G06Rik; 3100001I08Rik; AI987920; BI2; Igsf4; Igsf4a; Necl2; RA175; RA175A; RA175B; RA175C
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_018770
ORF Size:	1335 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222734).
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_018770.3</a> , <a href="#">NP_061240.3</a>
RefSeq Size:	4354 bp
RefSeq ORF:	1338 bp
Locus ID:	54725
UniProt ID:	<a href="#">Q8R5M8</a>
Cytogenetics:	9 A5.3



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**Gene Summary:**

Mediates homophilic cell-cell adhesion in a Ca<sup>2+</sup>-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca<sup>2+</sup>-independent manner. Acts as a tumor suppressor in non-small-cell lung cancer (NSCLC) cells. Interaction with CRTAM promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8<sup>+</sup> cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM3 in vivo. May contribute to the less invasive phenotypes of lepidic growth tumor cells. In mast cells, may mediate attachment to and promote communication with nerves. CADM1, together with MITF, is essential for development and survival of mast cells in vivo. Acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly. May be involved in neuronal migration, axon growth, pathfinding, and fasciculation on the axons of differentiating neurons. May play diverse roles in the spermatogenesis including in the adhesion of spermatocytes and spermatids to Sertoli cells and for their normal differentiation into mature spermatozoa.[UniProtKB/Swiss-Prot Function]