

Product datasheet for **RR215414L4V**

Acd (NM_001037193) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Acd (NM_001037193) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Acd
Synonyms:	MGC116400
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001037193
ORF Size:	1251 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR215414).
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_001037193.1 , NP_001032270.1
RefSeq Size:	1401 bp
RefSeq ORF:	1254 bp
Locus ID:	307798
UniProt ID:	Q4FZR5
Cytogenetics:	19q12



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Gene Summary:

Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends. Without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Promotes binding of POT1 to single-stranded telomeric DNA. Modulates the inhibitory effects of POT1 on telomere elongation. The ACD-POT1 heterodimer enhances telomere elongation by recruiting telomerase to telomeres and increasing its processivity. May play a role in organogenesis.[UniProtKB/Swiss-Prot Function]