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Product datasheet for MR201957L4V

Cdkn1b (NM_009875) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Cdkn1b (NM_009875) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cdkn1b
Synonyms:	AA408329; AI843786; Kip1; p27; p27Kip1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_009875
ORF Size:	591 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR201957).`
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_009875.2
RefSeq Size:	2405 bp
RefSeq ORF:	594 bp
Locus ID:	12576
UniProt ID:	P46414
Cytogenetics:	6 65.77 cM

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Gene Summary: Important regulator of cell cycle progression (PubMed:8033213, PubMed:12972555). Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (By similarity). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes (PubMed:8033213). Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichometry.[UniProtKB/Swiss-Prot Function]