

## Product datasheet for **RC217024L4V**

### **p15 INK4b (CDKN2B) (NM\_078487) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	p15 INK4b (CDKN2B) (NM_078487) Human Tagged ORF Clone Lentiviral Particle
Symbol:	p15 INK4b
Synonyms:	CDK4I; INK4B; MTS2; P15; p15INK4b; TP15
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_078487
ORF Size:	234 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217024).
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_078487.2</a> , <a href="#">NP_511042.1</a>
RefSeq Size:	4001 bp
RefSeq ORF:	237 bp
Locus ID:	1030
UniProt ID:	<a href="#">P42772</a>
Cytogenetics:	9p21.3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway



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MW: 7.9 kDa

**Gene Summary:** This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]