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Product datasheet for RC201661L4V

p27 KIP 1 (CDKN1B) (NM_004064) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	p27 KIP 1 (CDKN1B) (NM_004064) Human Tagged ORF Clone Lentiviral Particle
Symbol:	p27 KIP 1
Synonyms:	CDKN4; KIP1; MEN1B; MEN4; P27KIP1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004064
ORF Size:	594 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201661).
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_004064.2
RefSeq Size:	2422 bp
RefSeq ORF:	597 bp
Locus ID:	1027
UniProt ID:	P46527
Cytogenetics:	12p13.1
Domains:	CDI
Protein Families:	Druggable Genome

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Protein Pathways: Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

MW: 21.9 kDa

Gene Summary: This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014]