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Product datasheet for RC205380L3V

Rb2 p130 (RBL2) (NM_005611) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rb2 p130 (RBL2) (NM_005611) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Rb2 p130
Synonyms:	P130; Rb2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_005611
ORF Size:	3417 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC205380).`
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_005611.2
RefSeq Size:	4903 bp
RefSeq ORF:	3420 bp
Locus ID:	5934
UniProt ID:	Q08999
Cytogenetics:	16q12.2
Domains:	RB_B, RB_A, CYCLIN
Protein Families:	Druggable Genome, Transcription Factors

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Protein Pathways: Cell cycle, TGF-beta signaling pathway

MW: 128.3 kDa

Gene Summary: Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]