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Product datasheet for RC216151L1V

Von Hippel Lindau (VHL) (NM_000551) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Von Hippel Lindau (VHL) (NM_000551) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Von Hippel Lindau
Synonyms:	HRCA1; pVHL; RCA1; VHL1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_000551
ORF Size:	639 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC216151).`
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_000551.2
RefSeq Size:	2968 bp
RefSeq ORF:	642 bp
Locus ID:	7428
UniProt ID:	P40337
Cytogenetics:	3p25.3
Domains:	VHL
Protein Families:	Druggable Genome, Transcription Factors

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Protein Pathways: Pathways in cancer, Renal cell carcinoma, Ubiquitin mediated proteolysis

MW: 24 kDa

Gene Summary: Von Hippel-Lindau syndrome (VHL) is a dominantly inherited familial cancer syndrome predisposing to a variety of malignant and benign tumors. A germline mutation of this gene is the basis of familial inheritance of VHL syndrome. The protein encoded by this gene is a component of the protein complex that includes elongin B, elongin C, and cullin-2, and possesses ubiquitin ligase E3 activity. This protein is involved in the ubiquitination and degradation of hypoxia-inducible-factor (HIF), which is a transcription factor that plays a central role in the regulation of gene expression by oxygen. RNA polymerase II subunit POLR2G/RPB7 is also reported to be a target of this protein. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

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