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Product datasheet for RC216151

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

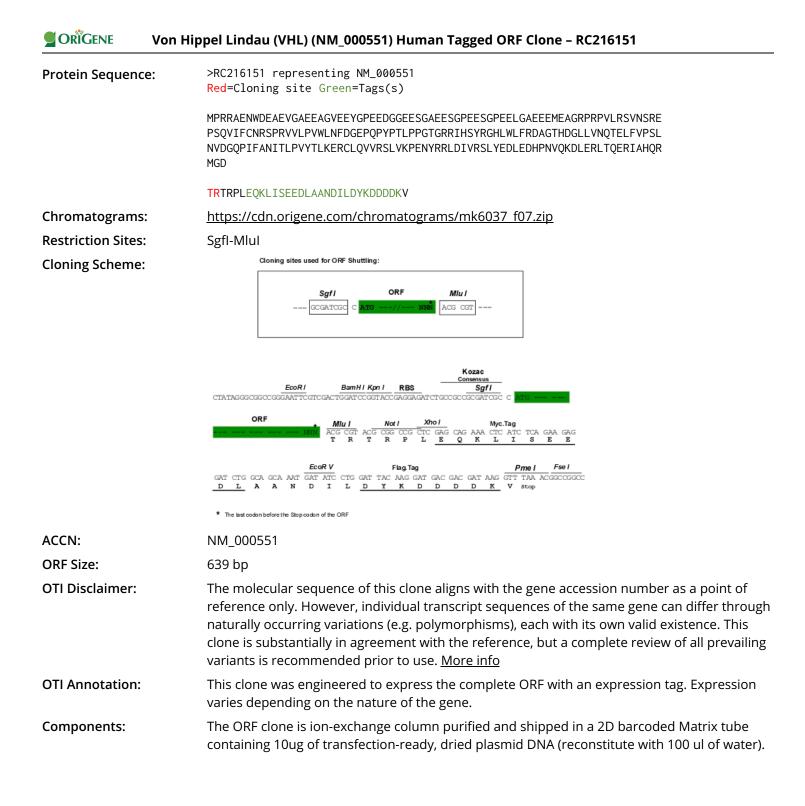
Product data:

Product Type:	Expression Plasmids
Product Name:	Von Hippel Lindau (VHL) (NM_000551) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Von Hippel Lindau
Synonyms:	HRCA1; pVHL; RCA1; VHL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC216151 representing NM_000551 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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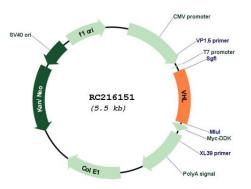
CRIGENE Von Hippel Lindau (VHL) (NM_000551) Human Tagged ORF Clone – RC216151

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 000551.4</u>
RefSeq Size:	2968 bp
RefSeq ORF:	642 bp
Locus ID:	7428
UniProt ID:	<u>P40337</u>
Cytogenetics:	3p25.3
Domains:	VHL
Protein Families:	Druggable Genome, Transcription Factors
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]

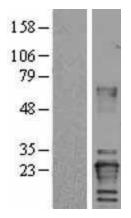
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Product images:



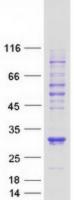
Circular map for RC216151



Western blot validation of overexpression lysate (Cat# [LY400188]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216151 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified VHL protein (Cat# [TP316151]). The protein was produced from HEK293T cells transfected with VHL cDNA clone (Cat# RC216151) using MegaTran 2.0 (Cat# [TT210002]).

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