

## VHLL cDNA

Catalog Number: ATGD0187

### PRODUCT INFORMATION

---

**Catalog number**

ATGD0187

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_001004319.1

**Alternative Names**

VHLP, VLP

**mRNA Refseq**

NM\_001004319.1

**OMIM**

**Chromosome location**

1q22

### PRODUCT SPECIFICATION

---

**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

420bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

Von Hippel-Lindau (VHL) tumor suppressor protein is a component of an E3 ubiquitin ligase complex that

## VHLL cDNA

Catalog Number: ATGD0187

selectively ubiquitinates the alpha subunit of the hypoxia-inducible factor (HIF) transcription factor for proteasome-mediated degradation. Inactivation of VHL causes VHL disease and sporadic kidney cancer. This gene encodes a VHL homolog that lacks one of two key domains necessary for VHL function. This gene may contribute to the regulation of oxygen homeostasis and neovascularization during placenta development. This gene is intronless, and can also be interpreted as a retrotransposed pseudogene of the VHL locus located on chromosome 3. However, the protein is represented in this RefSeq due to evidence in PMID:14757845 that strongly suggests it is translated. The same publication also indicates that this protein binds HIF alpha but fails to recruit the E3 ubiquitin ligase complex, and it therefore functions as a dominant-negative VHL protein and a protector of HIF alpha.

## DATA

---

### Sequence nucleotides

```
ATGCCCTGGAGAGCGGGGAACGGGGTGGGTTTAGAGGCCAGGCGGGCACCCAGGAGGCAGGCCAGGAGAGTACTGCC
AGGAAGAGTTGGGCGCCGAGGAGGAGATGGCAGCCAGAGCAGCATGGCCTGTGCTGCGCTCTGTGAACTCACGCGAGCT
CTCCCGGATCATCATCTGCAATCACAGCCACGAATCGTGCTGCCTGTGTGGCTCACTACTATGGCAAGCTGCTGCCCTAC
CTGACGCTGCTGCCCGGCAGGGACTTCCGCATCCACAACCTCCGAAGCCACCCTTGGCTCTTCAGAGATGCAAGGACACAT
GATAAGCTTCTGGTTAACCAAACTGAATTGTTGTGCCATCTCCAATGTTAATGGACAGCCTGTTTTTGCCAACATCACACT
GCAGTGTATACCCTGA
```

### Transaction Sequence

```
MPWRAGNGVG LEAQAGTQEA GPEEYCQEEL GAEEMAARA AWPVLRVNS RELSRIICN HSPRIVLPVW LNYYGKLLPY
LTLPLGRDFR IHNFRSHPWL FRDARTHDKL LVNQTELFVP SSVNNGQPVF ANITLQCIP
```