

Product datasheet for **SC109881**

Von Hippel Lindau (VHL) (NM_000551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Von Hippel Lindau (VHL) (NM_000551) Human Untagged Clone
Tag:	Tag Free
Symbol:	Von Hippel Lindau
Synonyms:	HRCA1; pVHL; RCA1; VHL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000551 edited
ATGCCCGGAGGGCGGAGAAGTGGGACGAGGCCGAGGTAGGCGCGGAGGAGGCAGGCCGTC
GAAGAGTACGGCCCTGAAGAAGACGGCGGGGAGGAGTCGGGCGCCGAGGAGTCCGGCCCG
GAAGAGTCCGGCCCGGAGGAAGTGGGCGCCGAGGAGGAGATGGAGCCGGGCGCCGCGG
CCCGTGTGCGCTCGGTGAACTCGCGAGCCCTCCAGGTCATCTTCTGCAATCGCAGT
CCGCGCGTGTGCTGCCGATGGCTCAACTTCGACGGCGAGCCGAGCCCTACCCAACG
CTGCCGCTGGCAGGGCCGCGCATCCACAGCTACCGAGGTCACCTTTGGCTCTTCAGA
GATGCAGGGACACACGATGGGCTTCTGGTTAACCAAACTGAATTATTTGTGCCATCTCTC
AATGTTGACGGACAGCCTATTTTTGCCAATATCACACTGCCAGTGTATACTCTGAAAGAG
CGATGCCTCCAGGTTGTCCGGAGCCTAGTCAAGCCTGAGAATTACAGGAGACTGGACATC
GTCAGGTCGCTCTACGAAGATCTGGAAGACCACCAAATGTGCAGAAAGACCTGGAGCGG
CTGACACAGGAGCGCATTGCACATCAACGGATGGGAGATTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000551 unedited
 GGCTCAGATTGTAACGACTTACTGTGGGCGGCAAAGCCCTTCGCACGAGCCTCGTGCCT
 ATTTCCGGCAGGAGCCGCGGCGTCCC GCCCGGGTGGTCTGGATCGCGGAGGGAATGCCCC
 GGAGGGCGGACAACTGGGACGAGGCCGAGGTAAGCGGGAGGAGGCAGGCGTCAAGAGT
 ACGGCCCTGCAACAAGACGGCGGGGAGGAGTTGTTTTCTGACGAGTCCGGCCCGAAGA
 GTCCGGCCCGGAGGAAC TGGCGCCGAGGAGATATGGAGGCCGGCGGCGGCGCCGT
 GCTGCGCTCGGTGAAC TCGCGCAGCCCTCCAGGTCATCTTCTGCAATCGCAGTCCGCG
 CGTCTGTCTGCCGTATGGCTCAACTTCGACGGCGAGCCGAGCCCTACCCAACGCTGCC
 GCCTGGCACGGGCGCCGCATCCACAGCTACCGAGGTCACCTTTGGCTCTTCAAAGATGC
 AGGGACACACGATGGGCTTCTGGTTAACCAAACTGAATTATTTGTCCATCTCTCAATGT
 TGACGGACAGCCTATTTTGCCAAATACACTGCCAGTGATACTCTGAAAGAGCGATG
 CCTCCAGTTGTCCGAGCCTAGTCAAGCCTGAGAATTACAGGAGACTGGACATCGTCAG
 GTCGCTACGAAGATCTGGAAGACCACCCATATGTGCAGAAAGACCTGGAGCGGCTGAC
 ACAGGAGCGCATTGCACATCACCGGATGGGAGATTGAAGATTTCTGTTGAACTTAACT
 GGTTCATCTCAACTTTTGATGGGACTGGTGAGTCTTGATCTAGATACAGGACTGGTTCT
 TTCTTAAGTTTCAAAGGCTCTATTCTCAGAGTAAATAGGCCCCATTGCTTAAAGGAA
 ATTAACGGCCTTCCCTAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000551 unedited
 CCGCGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGCAGGGTCTTGCCCT
 GTCCCCAGGCTGGAGTGCAGTGGCATACTCATGGCTCACTGCCCTCCAATTCCTAAA
 CTCCAATGATCTTCTCACCTCAGCCTGCCAAGTAGCTAGGATTACAGATGTGTCCGCCA
 TGCTAATTTTTAAAAATTTTTGTATAGATGGGTTCTCACTATGAGCCCAGGCTCATCTT
 GAAGTTCTGGGCTCAAGCAATCCTCTCACCTTGGCTTCCCAAAGTACTGGGATTACAGGC
 GGGAGCCACCATGCCAGCCGTCCTCTATTTTTGAGCACAGGAATTGTGCCCAAAGGCT
 AGGATAAGGAATTAAGATGCATGCCAAGAAATACCCACAACATTAATTATAAAAGGGA
 GACTATACTAATGTTTGTGAAAAGCTTATACTAACATAGAGCAATATTTAAGTTATAAG
 TTAATGAAAAAGGATATAAACTGTATGAACAGTACAATCTCAACTATGTAAAAACCA
 CAAAACTGCCCTAAAAAGGCTGGAAGGAAATAGCTCAAAATGTTAATGTGATTGTATT
 TAAGAAGTGTATCTAATAGGGATCTTTTTCTTCTTTTTAGCTCTGCCCCTTTCCAAA
 TGTTTTCTACTGGGAGATTTTTTTAAAAAGCTCTTAGGGAAGGAGTACCAACCAAAGT
 GGAAAAAAAATCTATTATTTACCAAAAAGTCTGAAAAAACCAATTGAATTTGAGGT
 CATGACTCCAAGTCTACCTTAAAGAATTTGCGCATCTATAAACCTTGGAACCGTCCCGC
 TTCCTCATGAATCTCTGTAGACCAAAGCTGAAGTGAACGCCCTGGCCTGCTGAAAAA
 AAGCTGATAGCCGGCCGGGCCCCACCCGGTCCCTTTTCGGAGCTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_000551

Insert Size:

2620 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. 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:	NM_000551.2 , NP_000542.1
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
Protein Pathways:	Pathways in cancer, Renal cell carcinoma, Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>