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:** VHL
- **Synonyms:** HRCA1; pVHL; RCA1; VHL1
- **Vector:** pCMV6-XL5
- **E. coli Selection:** Ampicillin (100 µg/mL)
- **Cell Selection:** None
- **Fully Sequenced ORF:**

  ATGCCCGGAGGGGAGAAGCTCGAGGAGCGCAGGGAGCAAGGAGCCCGAGCGGAGGGAGGGCTC
  GAAGAGTCGCCGCGAGAGAGAAGACGGCGGGAGGAGTCGGGCGCCGAGGAGTCCGCGCGC
  GAAGAGTCCGCGCGAGGAGATGAGAGGAGGAGGAGGAGGAGATGGAGGCCGGGCGGCCGCGC
  GACGCCCTGATGGATCGCCTGACCTCGACGAGCGAGGAGCAAGCTACCCCAAGCGCCGC
  CGCCGCGTCTGTCGTGCTGCCGTATGCTCAACTTCGAGCCAGGCGGACACCGCTACCAACAG
  CTGCCGCTTGCACCGGCGCCCGATCCACAGCTACCCCAAGCGCCGCACGAGTCGTCCCTGCC
  GTCGTGCATTGTGCTCGATCCAAACTGAAATATTGTGCTGACATCTCTCTC
  AATGTTGAGCGAGACGTCTTATTTGCTGGGAACTACGCAGGAGTGTGATATATGCTGCACG
  GCGTGCATTGGGCTGAGGTATGTGCTGATCCAAACTGAAATATTGTGCTGACATCTCTC
  GTCGAGTCGCTCCTACACCGGAAGCGCTTCGAGGAGGAGGTGAGTCGCTGTGCTGCTG
  CTGAGACCGGAGCGCAGTCGCTGCTGAGGAGGAGGTGAGTCGCTGTGCTGCTGCTGCTG
  CTGAGACCGGAGCGCAGTCGCTGCTGAGGAGGAGGTGAGTCGCTGTGCTGCTGCTGCTG
  CTGAGACCGGAGCGCAGTCGCTGCTGAGGAGGAGGTGAGTCGCTGTGCTGCTGCTGCTG

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
5' Read Nucleotide Sequence:
> OriGene 5' read for NM_000551 unedited
GGCTCAGATTGAACTCAGGCGCGCGCTCAGGTTGACTGAGGCTGGAGGATGCGGCCTCGCAAGGCTGGAGTTTTTTTTTTTTTGGAGGGGAGGACCTCGTACG

3' Read Nucleotide Sequence:
> OriGene 3' read for NM_000551 unedited
CCGGGCCGCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Cytogenetics: 3p25.3
Domains: VHL
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: Pathways in cancer, Renal cell carcinoma, Ubiquitin mediated proteolysis
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] 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.