

## Product datasheet for MR201630

### Vhl (NM\_009507) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vhl (NM\_009507) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Vhl  
**Synonyms:** Vhlh  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201630 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCCGGAAGGCAGCCAGTCCAGAGGAGGCGGGGAGCCCGTCTGAGGAGATGGAGGCTGGGC  
 GGCCGCGCCGGTGTGCGCTCGGTGAAGTTCGCGCAGCCCTCTCAGGTATCTTCTGCAACCGCAGCCC  
 GCGCGTGTGCTGCCTTTGTGGCTCAACTTCGACGGCAGCCCTCAGCCCTACCCGATCTTACCACGGGC  
 ACCGGCCCGCATCCACAGCTACCGAGGTCACTTTGGCTCTTCAAGGATGCGGGACCCATGATGGAC  
 TTCTGGTTAACCAAACGGAGCTGTTTGTGCCATCCCTCAATGTCGATGGACAGCCTATTTTTGCCAACAT  
 CACATTGCCAGTGTATACCCTGAAAGAGCGGTGCCTTCAGGTTGTGCGGAGCCTGGTCAAGCCTGAGAAC  
 TACAGGAGACTGGACATCGTCAGGTCACTCTATGAGGATTTGGAGGACTACCAAGTGTGCGGAAGGACA  
 TACAGCGACTGAGCCAAGAGCACCTTGAGATCAGCACCTGGAAGAGGAGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201630 protein sequence  
 Red=Cloning site Green=Tags(s)

MPRKAASPEEAAGEPGPEEMEAGRPRPVLRSVNSREPSQVIFCNRSRVLPLWLNFDGEPQYPILPPG  
 TGRRIHSYRGHLWFRDAGTHDLLVNQTELVFVPSLNVGQPIFANITLPPVYTLKERCLQVVRSLVKPEN  
 YRRLDIVRSLYEDLEDYPSVRKDIQRLSQEHLESQHLEEEP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_009507

**ORF Size:** 546 bp

**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.

**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:**

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\\_009507.4](#)

**RefSeq Size:** 2730 bp

**RefSeq ORF:** 546 bp

**Locus ID:** 22346

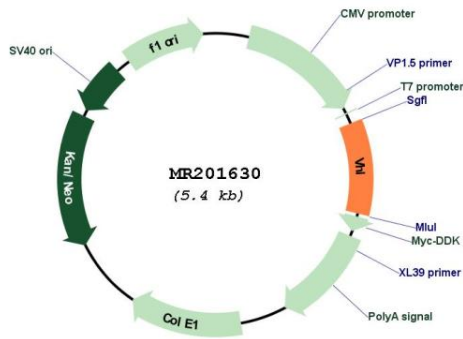
**UniProt ID:** [P40338](#)

**Cytogenetics:** 6 52.81 cM

MW: 20.8 kDa

**Gene Summary:** Involved in the ubiquitination and subsequent proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Seems to act as a target recruitment subunit in the E3 ubiquitin ligase complex and recruits hydroxylated hypoxia-inducible factor (HIF) under normoxic conditions. Involved in transcriptional repression through interaction with HIF1A, HIF1AN and histone deacetylases. Ubiquitinates, in an oxygen-responsive manner, ADRB2 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201630