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Product datasheet for SC127423

Von Hippel Lindau (VHL) (NM_198156) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Von Hippel Lindau (VHL) (NM_198156) Human Untagged Clone
Tag:	Tag Free
Symbol:	VHL
Synonyms:	HRCA1; pVHL; RCA1; VHL1
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_198156, the custom clone sequence may differ by one or more nucleotides

ATGCCCCGGAGGGCGGAGAACTGGGACGAGGCCGAGGTAGGCGCGGAGGAGGCAGGCGTCGAAGAGTACG
GCCCTGAAGAAGACGGCGGGGAGGAGTCGGGCGCCGAGGAGTCCGGCCCGGAAGAGTCCGGCCCGGAGGA
ACTGGGCGCCGAGGAGGAGATGGAGGCCGGGCGGCCGCGGCCCGTGCTGCGCTCGGTGAACTCGCGCGAG
CCCTCCCAGGTCATCTTCTGCAATCGCAGTCCGCGCGTCGTGCTGCCCGTATGGCTCAACTTCGACGGCG
AGCCGCAGCCCTACCCAACGCTGCCGCCTGGCACGGGCCGCCGCATCCACAGCTACCGAGTGTATACTCT
GAAAGAGCGATGCCTCCAGGTTGTCCGGAGCCTAGTCAAGCCTGAGAATTACAGGAGACTGGACATCGTC
AGGTCGCTCTACGAAGATCTGGAAGACCACCCAAATGTGCAGAAAGACCTGGAGCGGCTGACACAGGAGC
GCATTGCACATCAACGGATGGGAGATTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198156 unedited
ATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCCGGGTGGTCTGGATCGCG
GAGGGAATGCCCCGGAGGGCGGAGAACTGGGACGAGGCCGAGGTAGGCGCGGAGGAGGCA
GGCGTCGAAGAGTACGGCCCTGAAGAAGACGGCGGGGAGGAGTCGGGCGCCGAGGAGTCC
GGCCCGGAAGAGTCCGGCCCGGAGGAACTGGGCGCCGAGGAGGAGATGGAGGCCGGGCGG
CCGCGGCCCGTGCTGCGCTCGGTGAACTCGCGCGAGCCCTCCCAGGTCATCTTCTGCAAT
CGCAGTCCGCGCGTCGTGCTGCCCGTATGGCTCAACTTCGACGGCGAGCCGCAGCCCTAC
CCAACGCTGCCGCCTGGCACGGGCCGCCGCATCCACAGCTACCGAGGTCACCTTTGGCTC
TTCAGAGATGCAGGGACACACGATGGGCTTCTGGTTAACCAAACTGAATTATTTGTGCCA
TCTCTCAATGTTGACGGACAGCCTATTTTTGCCAATATCACACTGCCAGTGTATACTCTG
AAAGAGCGATGCCTCCAGGTTGTCCGGAGCCTAGTCAAGCCTGAGAATTACAGGAGACTG
GACATCGTCAGGTCGCTCTACGAAGATCTGGAAGACCACCCAAATGTGCAGAAAGACCTG
GAGCGGCTGACACAGGAGCGCATTGCACATCAACGGATGGGAGATTGAAGATTTCTGNTG
AAACTACACTGTTTCATCTCAGCTTTTGATGGTACTGATGAGTCTTGATCTAAATCAGGA
CTGGCTCCTTTCTTAGTTTCAAGTGTCTCATTCTCAGAGTAAATAGGCACCTTGCTTAAA
AGAAAGTACTGACTTCCTAGCATTGTGAGTTTAGGGGCAACATACCAATGTAATTTATGC
CTGCCATANAGAGTATTATCACGAGAAGGTGTGGCTTTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_198156 unedited
ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGAGGCAGGGTCTTGCT
CTGTCCCCCAGCTGGAGTGCAGTGGCATACTCATGGCTCACTGCCGCCTCCAATTCCTAA
ACTCCAATGATCTTCTCACCTCAGCCTGCCAAGTAGCTAGGATTACAGATGTGTGCCGCC
ATGCTAATTTTTAAAAATTTTTTGTATAGATGGGTTCTCACTATGAGCCCAGGCTCATCT
TGAAGTTCTGGGCTCAAGCAATCCTCTTACCTTGGCTTCCCAAAGTACTGGGATTACAGG
CGGGAGCCACCATGCCAGCCGTCACTCTCATTTTTGAGCACAGGAATTGTGCCCAAAGGC
TAGGATAAGGAATTAAAGATGCATGCCAAGAAATACCCACAAACATTAATTATAAAAGGG
AGACTATACTAATGTTTGTGAAAAGCTTATACTAACATAGAGCAATATTTAAGTTATAAA
GTTAAATGAAAAAGGGTATAAAACTGTATGAACAGTACAATCTCAACTATGTAAAAACCA
ACCAAAATCTGCCCTAAAAAGGCTGGAAGGAAATAGCTCAAAATGTTAATGTGATTGTAT
TTAAGAAGTGTATCTAATAGGGATCTTTTTTCTTCCTTTTTAGTTTTCTGTCTTTTCCAA
ATGTTTCTCTACTGGGGAGATTTTTTTAAAAAGCTATTAGGGAAAGAGTACAACAAAAGT
GGAAAAAAAAACTATTAGTTACAAAAAACTGAGTCTGATAAAACCATGAAATTGAGTTAT
GGAACCTAAGTCTAACCTTTAGGATTTGTACTTTAGCAAACTATGAAACAGCCCAGCTCC
TCATTGATCCATGGGAGGACCCAAGCTGGAGGTGAAAGCCCCCTGGCCTGCCTGTAAAAA
TGGCGATAGCCGGCCCGGGGCCCAACCCTGTATCCCCC

Restriction Sites: NotI-NotI

ACCN: NM_198156

Insert Size: 2990 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:	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_198156.1, NP_937799.1
RefSeq Size:	2845 bp
RefSeq ORF:	519 bp
Locus ID:	7428
UniProt ID:	P40337
Cytogenetics:	3p25.3
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 (2) lacks an in-frame coding exon compared to variant 1. The resulting isoform (2) lacks an internal region, as compared to 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.