

## Product datasheet for **SC330575**

### KLHL3 (NM\_001257194) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KLHL3 (NM\_001257194) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KLHL3  
**Synonyms:** PHA2D  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330575 representing NM\_001257194.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

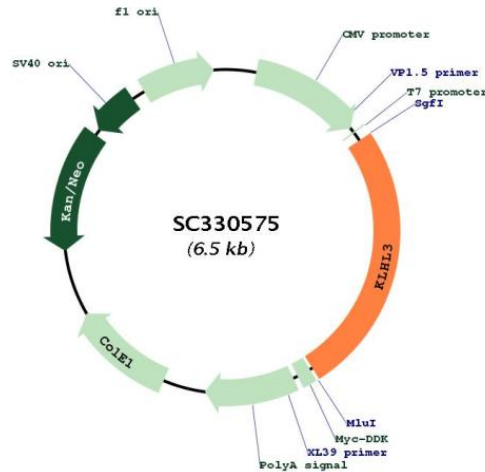
```

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CATCCCACCAATTGCCTGGGCATCCGTGCATTTGCAGATGTACACACCTGCACTGACCTTCTGCAGCAG
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AAGTCCTGTGA
  
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001257194

**Insert Size:** 1668 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\\_001257194.1](#)

**RefSeq Size:** 6981 bp

**RefSeq ORF:** 1668 bp

**Locus ID:** 26249

**UniProt ID:** [Q9UH77](#)

**Cytogenetics:** 5q31.2

**MW:** 61.5 kDa

**Gene Summary:**

This gene is ubiquitously expressed and encodes a full-length protein which has an N-terminal BTB domain followed by a BACK domain and six kelch-like repeats in the C-terminus. These kelch-like repeats promote substrate ubiquitination of bound proteins via interaction of the BTB domain with the CUL3 (cullin 3) component of a cullin-RING E3 ubiquitin ligase (CRL) complex. Mutations in this gene cause pseudohypaldosteronism type IID (PHA2D); a rare Mendelian syndrome featuring hypertension, hyperkalaemia and metabolic acidosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (2) lacks a 5' coding exon and has an alternate 5' exon which results in the use of a downstream in-frame start codon, compared to variant 1. These differences result in a protein (isoform 2; also known as KLHL3b) with a shorter N-terminus, 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.