

Product datasheet for **SC114103**

KLHL3 (NM_017415) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL3 (NM_017415) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLHL3
Synonyms:	PHA2D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114103 sequence for NM_017415 edited (data generated by NextGen Sequencing)

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ATGGAGGGTAAAAGTGTCAAGCTGAGCTCCCAGACTCTGATACAGGCTGGGGATGATGAG
AAGAACCAGAGGACGATCACTGTCAACCCTGCCACATGGGAAAGCATTCAAGTTATG
AATGAAGTGCAGGAGTAAACAGCTGTTGTGTGACGTGATGATTGTGGCAGAAGATGTCGAG
ATAGAAGCCCACCGTGTGGTCTGGCAGCCTGCAGCCCCACTTCTGTGCGATGTTCCACA
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GTGGTTGGAGGGGATGATGGATCCTGCAACTTGGCTTCGGTGGAGTACTACAATCCTGTC
ACTGACAATGGACGCTGCTTCCAACGAACATGAGCACGGGGCGGAGCTATGCAGGTGTT
GCCGTGATTCACAAGTCCTTGTA
    
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Clone variation with respect to NM_017415.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017415 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCTCGTGCCGAATTC
 GGCACGAGGCGAGTGCATACACAGTTTCAGCAGCTACCACCTGGCTGGGCCTCACACAAT
 GGAGGGTAAAAGTGTCAAGCTGAGCTCCCAGACTCTGATACAGGCTGGGGATGATGAGAA
 GAACCAGAGGACGATCACTGTCAACCCTGCCACATGGGAAAGCATTCAAGTTATGAA
 TGAAGTCCGAGTAAACAGCTGTTGTGTGACGTGATGATTGTGGCAGAAGATGTCGAGAT
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 TGACATGTCTGAGAGTAAAGCCAAAAAGATAGAAATCAAGGACGTGGATGGGCAGACGCT
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 CCTCTTTTACCTAGGGACTACCTTATCCCAACGGTGGAGGAAGAACTTTGATAAAAAATA
 CCACCCCGCAAGAGTTCCTATTGGAGCCATAAAATCCCTCTCCTCTCTGAACACAGAC
 ATGGATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017415 unedited
 GTGGGCCAAGNNNNNNNAACTTTTTACTTGGACCCGGCCGAATCTAGATCGAGTTTT
 TTTTTTTTTTTTTGGTTTGGTTTGGTTTTAAGTGTACCCGAGCTTCTCTGAAGACTAG
 TTTTCCCAGCTGAAGAGATATAACACCTCCCAGGCCTGGAATCTATGACATCAAAGACCA
 ATGGCCTAAACCTGAAGACTGGGCAGTTCTCATCTGCTTTCCTGTAGGGAGAACTCAAAG
 GAAAAACAGTGGAGCTTGAGAACCCAGGGAACCCCTTTGGGCCCTTTATCTAACCCCA
 CAAAAGGACCCGGGGCCACTTTTAAAAATTTTTCCCAATTTTTTTGGAAACAAAGTC
 CCCCAGGTTTTTAAAAAGCCCTAAAGGGGGGGGGGGGGCCAAAAAACACCCCCCTTC
 CCGGGTTTTTGGGGATCCCCAAAGGGCACGGGGCTCTAAAAAATAAATTTTTTTTTCT
 CCCCCGGGGGGGGGTTTTAAAAAATAAATTTGGGGGTGGCCCCCCCCCCCCCCCC
 CCCCCTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
 CCCCCCCCCGGGTTTGTTTTTTTTTTTTTTAAAAAATAAATAAATAAATAAATAAATAA

Restriction Sites:

NotI-NotI

ACCN:

NM_017415

Insert Size:

3340 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_017415.1](#), [NP_059111.1](#)

RefSeq Size: 6485 bp

RefSeq ORF: 1764 bp

Locus ID: 26249

UniProt ID: [Q9UH77](#)

Cytogenetics: 5q31.2

Domains: BTB, Kelch

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 pseudohypoaldosteronism 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 (1) encodes the longest isoform (1; also known as KLHL3a).

Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.