

Product datasheet for **RC232883**

KLHL3 (NM_001257195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL3 (NM_001257195) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHL3
Synonyms:	PHA2D
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232883 representing NM_001257195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGTAGAGTAAAGCCAAAAAGATAGAAATCAAGGACGTGGATGGCAGACGCTGAGTAACTGATTG
 ACTACATCTATACTGCTGAAATCGAGGTGACTGAAGAGAATGTCCAGGTGCTGCTCCCGCAGCCAGCTT
 GCTGCAGCTCATGGATGTTCCGGCAGAAGTCTGTGACTTCTGTCAGTCTCAGTTGCATCCACCAATTGC
 CTGGGCATCCGTGCATTTGCAGATGTACACACCTGCACTGACCTTCTGCAGCAGGCCAATGCCTACGCAG
 AGCAGCACTTTCCAGAGGTGATGCTAGGAGAAGAAATTTCTTAGCCTGAGTCTGGACCAGGTGTGCAGCTT
 GATATCCAGCGACAAGCTGACCGTTTCTCAGAAGAGAAGGTGTTTGAAGCTGTGATCTCATGGATCAAT
 TATGAGAAAGAAACCCGTTTAGAGCACATGGCAAAGCTGATGGAACATGTCGACTTCTCTCTTACCTA
 GGGACTACCTAGTCCAAACGGTTGAAGAAGAAGCTTTGATAAAGAATAACAACACCTGTAAGACTTCTCT
 CATTGAGGCCATGAAATACCATCTCTCCCTCTGGATCAGAGACTATTGATTAAGAACCCAAGGACCAAG
 CCCAGGACTCCAGTCAGCTTCCCAAGGTCATGATTGTGGTTGGCGGCCAGGCACCAAGGCAATCCGCA
 GTGTGGAGTGCTATGATTTCCAGGAGGACCGGTGGGATCAGATTGCTGAGCTTCTTCCAGAAGATGCAG
 AGCAGGTGTGGTGTTCATGGCTGGCCACGTGTATGCCGTGGGAGGGTTAATGGCTCACTGCGGGTGCAG
 ACAGTGGATGTGTATGACGGCGTGAAGGACCAAGTGGACGTCCATTGCCAGCATGCAGGAGCGCCGGAGCA
 CACTGGGCGCAGCGGTGCTCAATGACTTGTCTACGCAGTGGGAGGCTTTGATGGCAGTACTGGCCTAGC
 ATCGGTGGAAGCCTACAGCTACAAGACCAACGAGTGGTCTTTGTGGCCCGATGAACACGCGCGGAGC
 AGTGTGGGTGTGGCGTGTGGAGGGGAAGCTATGCTGTTGGGGTTATGATGGAGCTTCCCGCCAGT
 GTCTGAGCACTGTGGAGCAGTACAACCCAGCAGCAATGAATGGATATACGTGGCGGACATGAGCACCCG
 CCGCAGTGGCGCAGGGGTTGGAGTGCTTAGCGGACAGCTGTACGCCACAGGTGGGCATGATGGCCCTTTG
 GTGAGGAAGAGCGTTGAGGTTTACGATCCTGGAACAAATACCTGGAAGCAAGTGGCAGACATGAACATGT
 GCCGGCGCAACGCAGGGGTCTGTGCAGTAAATGGGCTCCTGTATGTGGTTGGAGGGGATGATGGATCCTG
 CAACTTGGCTTCGGTGGAGTACTACAATCCTGTCACTGACAAATGGACGCTGTTCCAACGAACATGAGC
 ACGGGCGGAGCTATGCAGGTGTGCCGTGATTCACAAGTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232883 representing NM_001257195
 Red=Cloning site Green=Tags(s)

MESKAKKIEIKDVGQTL SKLIDYIYTAIEIEVTEENVQVLLPAASLLQLMDVRQNCDFLQSQLHPTNC
 LGIRAFADVHTCDLLQQANAYAEQHFPEVMLGEEFLSLSLDQVCSLISSDKLTVSSEEKVFEAVISWIN
 YEKETRLEHMAKLMHVRLPLLPRDYLQVTVEEALIKNNNTCKDFLIEAMKYHLLPLDQRLLIKPNRTRK
 PRTVPVSLPKVMIIVGGQAPKAIRSVECYDFEEDRWDQIAELPSRRCRAGVVFMAGHVYAVGGFNGSLRVR
 TVDVYDGVKDQWTSIASMQERRSTLGAAVLNDLLYAVGGFDGSTGLASVEAYSYKTNEWFFVAPMNRSS
 SVGVVVEGKLYAVGGYDGAQRCLSTVEQYNPATNEWIYVADMSTRRSGAGVGLSGQLYATGGHDGPL
 VRKSVEVYDPGNTWKQVADNMCRRNAGVCAVNGLLYVVGDDGSCNLSVEYYNPVTDKWTLLPTNMS
 TGRSYAGVAVIHKSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

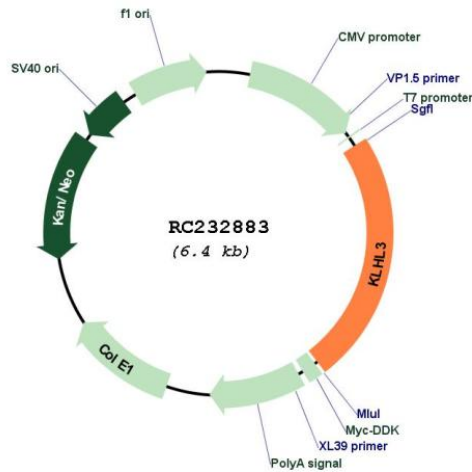
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001257195

ORF Size: 1515 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_001257195.1](#), [NP_001244124.1](#)

RefSeq Size: 6557 bp

RefSeq ORF: 1518 bp

Locus ID: 26249

UniProt ID: [Q9UH77](#)

Cytogenetics: 5q31.2

MW: 56.4 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 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]