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Product datasheet for RC218393

KLHL3 (NM_017415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL3 (NM_017415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHL3
Synonyms:	PHA2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC218393 representing NM_017415
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGTGAAAGTGTCAAGCTGAGCTCCCAGACTCTGATACAGGCTGGGGATGATGAGAAGAACCAGA
GGACGATCACTGTCAACCCTGCCCACATGGGGAAAGCATTCAAGGTTATGAATGAACTGCGGAGTAAACA
GCTGTTGTGTGACGTGATGATTGTGGCAGAAGATGTCGAGATAGAAGCCCACCGTGTGGTCCTGGCAGCC
TGCAGCCCCTACTTCTGTGCGATGTTCACAGGTGACATGTCTGAGAGTAAAGCCAAAAAGATAGAAATCA
AGGACGTGGATGGGCAGACGCTGAGTAAGCTGATTGACTACATCTATACTGCTGAAATCGAGGTGACTGA
AGAGAATGTCCAGGTGCTGCTCCCGGCAGCCAGCTTGCTGCAGCTCATGGATGTTCGGCAGAACTGCTGT
GACTTCCTGCAGTCTCAGTTGCATCCCACCAATTGCCTGGGCATCCGTGCATTTGCAGATGTACACACCT
GCACTGACCTTCTGCAGCAGGCCAATGCCTACGCAGAGCAGCACTTTCCAGAGGTGATGCTAGGAGAAGA
ATTTCTTAGCCTGAGTCTGGACCAGGTGTGCAGCTTGATATCCAGCGACAAGCTGACCGTTTCTTCAGAA
GAGAAGGTGTTTGAAGCTGTGATCTCATGGATCAATTATGAGAAAGAAACCCGTTTAGAGCACATGGCAA
AGCTGATGGAACATGTCCGACTTCCTCTCTTACCTAGGGACTACCTAGTCCAAACGGTTGAAGAAGAAGC
TTTGATAAAGAATAACAACACCTGTAAAGACTTCCTCATTGAGGCCATGAAATACCATCTCCTCCCTCTG
GATCAGAGACTATTGATTAAGAACCCAAGGACCAAGCCCAGGACTCCAGTCAGCCTTCCCAAGGTCATGA
TTGTGGTTGGCGGCCAGGCACCCAAGGCAATCCGCAGTGTGGAGTGCTATGATTTCGAGGAGGACCGGTG
GGATCAGATTGCTGAGCTTCCTTCCAGAAGATGCAGAGCAGGTGTGGTGTTCATGGCTGGCCACGTGTAT
GCCGTGGGAGGGTTTAATGGCTCACTGCGGGTGCGGACAGTGGATGTGTATGACGGCGTGAAGGACCAGT
GGACGTCCATTGCCAGCATGCAGGAGCGCCGGAGCACACTGGGCGCAGCGGTGCTCAATGACTTGCTCTA
CGCAGTGGGAGGCTTTGATGGCAGTACTGGCCTAGCATCGGTGGAAGCCTACAGCTACAAGACCAACGAG
TGGTTCTTTGTGGCCCCGATGAACACGCGGCGGAGCAGTGTGGGTGTGGGCGTTGTGGAGGGGAAGCTAT
ATGCTGTTGGGGGTTATGATGGAGCTTCCCGCCAGTGTCTGAGCACTGTGGAGCAGTACAACCCAGCGAC
CAATGAATGGATATACGTGGCGGACATGAGCACCCGCCGCAGTGGCGCAGGGGTTGGAGTGCTTAGCGGA
CAGCTGTACGCCACAGGTGGGCATGATGGGCCTTTGGTGAGGAAGAGCGTTGAGGTTTACGATCCTGGAA
CAAATACCTGGAAGCAAGTGGCAGACATGAACATGTGCCGGCGCAACGCAGGGGTCTGTGCAGTAAATGG
GCTCCTGTATGTGGTTGGAGGGGATGATGGATCCTGCAACTTGGCTTCGGTGGAGTACTACAATCCTGTC
ACTGACAAATGGACGCTGCTTCCAACGAACATGAGCACGGGGCGGAGCTATGCAGGTGTTGCCGTGATTC
ACAAGTCCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218393 representing NM_017415
Red=Cloning site Green=Tags(s)

MEGESVKLSSQTLIQAGDDEKNQRTITVNPAHMGKAFKVMNELRSKQLLCDVMIVAEDVEIEAHRVVLAA
CSPYFCAMFTGDMSESKAKKIEIKDVDGQTLSKLIDYIYTAEIEVTEENVQVLLPAASLLQLMDVRQNCC
DFLQSQLHPTNCLGIRAFADVHTCTDLLQQANAYAEQHFPEVMLGEEFLSLSLDQVCSLISSDKLTVSSE
EKVFEAVISWINYEKETRLEHMAKLMEHVRLPLLPRDYLVQTVEEEALIKNNNTCKDFLIEAMKYHLLPL
DQRLLIKNPRTKPRTPVSLPKVMIVVGGQAPKAIRSVECYDFEEDRWDQIAELPSRRCRAGVVFMAGHVY
AVGGFNGSLRVRTVDVYDGVKDQWTSIASMQERRSTLGAAVLNDLLYAVGGFDGSTGLASVEAYSYKTNE
WFFVAPMNTRRSSVGVGVVEGKLYAVGGYDGASRQCLSTVEQYNPATNEWIYVADMSTRRSGAGVGVLSG
QLYATGGHDGPLVRKSVEVYDPGTNTWKQVADMNMCRRNAGVCAVNGLLYVVGGDDGSCNLASVEYYNPV
TDKWTLLPTNMSTGRSYAGVAVIHKSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6475_g02.zip

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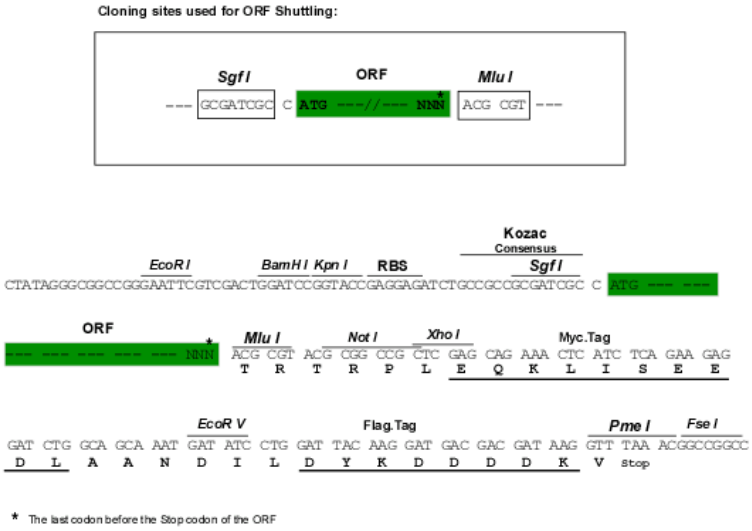
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017415

ORF Size: 1761 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_017415.3

RefSeq Size: 6485 bp

RefSeq ORF: 1764 bp

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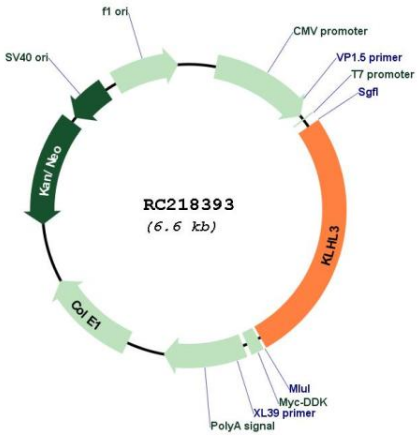
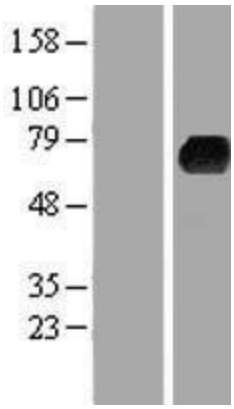
Locus ID:	26249
UniProt ID:	Q9UH77
Cytogenetics:	5q31.2
Domains:	BTB, Kelch
MW:	64.8 kDa
Gene Summary:	This gene is ubiquitously expressed and encodes a full-length protein which has an N-terminal BTB domain followed by a BACK domain and six kelch-like repeats in the C-terminus. These kelch-like repeats 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. Muatations 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]

Product images:



Circular map for RC218393



Western blot validation of overexpression lysate (Cat# [LY413773]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218393 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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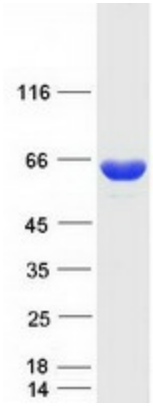

Coomassie blue staining of purified KLHL3 protein (Cat# [TP318393]). The protein was produced from HEK293T cells transfected with KLHL3 cDNA clone (Cat# RC218393) using MegaTran 2.0 (Cat# [TT210002]).

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