

Product datasheet for **RG218393**

KLHL3 (NM_017415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL3 (NM_017415) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHL3
Synonyms:	PHA2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218393 representing NM_017415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGAGGGTGAAAGTGTCAAGCTGAGCTCCAGACTCTGATACAGGCTGGGGATGATGAGAAGAACCAGA
 GGACGATCACTGTCAACCCTGCCACATGGGGAAGCATTCAAGTTATGAATGAACTGCGGAGTAAACA
 GCTGTTGTGTGACGTGATGATTGTGGCAGAAGATGTCGAGATAGAAGCCACCGTGTGGTCTGGCAGCC
 TGCAGCCCTACTTCTGTGCGATGTTACAGGTGACATGTCTGAGAGTAAAGCCAAAAAGATAGAAATCA
 AGGACGTGGATGGGCAGACGCTGAGTAAGCTGATTGACTACATCTATACTGCTGAAATCGAGGTGACTGA
 AGAGAATGTCCAGGTGCTGCTCCCGGCAGCCAGCTTGTGCAGCTCATGGATGTTCCGGCAGAACTGCTGT
 GACTTCTGCAGTCTCAGTTGCATCCACCAATTGCCTGGGCATCCGTGCGTTTGCAGATGTACACCT
 GCACTGACCTTCTGCAGCAGGCCAATGCCTACGCAGAGCAGCACTTTCAGAGGTGATGCTAGGAGAAGA
 ATTTCTTAGCCTGAGTCTGGACCAGGTGTGCAGCTTGATATCCAGCGACAAGCTGACCGTTTCTTCAGAA
 GAGAAGGTGTTTGAAGCTGTGATCTCATGGATCAATTATGAGAAAAGAAAACCGTTTAGAGCACATGGCAA
 AGCTGATGGAACATGTCCGACTTCTCTCTTACCTAGGGACTACCTAGTCCAAACGGTTGAAGAAGAAGC
 TTTGATAAAGAATAACAACACCTGTAAAGACTTCTCATTGAGGCCATGAAATACCATCTCCTCCCTCTG
 GATCAGAGACTATTGATTAAGAACCCAAGGACCAAGCCAGGACTCCAGTCAGCCTTCCCAAGGTCATGA
 TTGTGGTTGGCGGCCAGGCACCAAGGCAATCCGCAGTGTGGAGTGCTATGATTTTCGAGGAGGACCGGTG
 GGATCAGATTGCTGAGCTTCTTCCAGAAGATGCAGAGCAGGTGTGGTGTTCATGGCTGGCCACGTGAT
 GCCGTGGGAGGGTTAATGGCTCACTGCGGGTGGGACAGTGGATGTGTATGACGGCGTGAAGGACCAGT
 GGACGTCCATTGCCAGCATGCAGGAGCGCCGAGCACACTGGGCGCAGCGGTGCTCAATGACTTGCTCTA
 CGCAGTGGGAGGCTTGTATGGCAGTACTGGCCTAGCATCGGTGGAAGCCTACAGCTACAAGACCAACGAG
 TGGTTCTTTGTGGCCCCGATGAACACGCGGCAGAGCAGTGTGGGTGTGGGCGTTGTGGAGGGGAAGCTAT
 ATGCTGTTGGGGTTATGATGGAGCTTCCCGCCAGTGTCTGAGCACTGTGGAACAGTACAACCCAGCGAC
 CAATGAATGGATATACGTGGCGGACATGAGCACCCGCCGAGTGGCGCAGGGGTTGGAGTGCTTAGCGGA
 CAGCTGTACGCCACAGGTGGGCATGATGGGCCTTTGGTGAGGAAGAGCGTTGAGGTTTACGATCCTGGAA
 CAAATACCTGGAAGCAAGTGGCAGACATGAACATGTGCCGGCGCAACGCAGGGGTCTGTGCAGTAAATGG
 GCTCCTGTATGTGTTGGAGGGGATGATGGATCCTGCAACTTGGCTTCGGTGGAGTACTACAATCCTGTC
 ACTGACAAATGGACGCTGCTTCCAACGAACATGAGCACGGGGCGGAGCTATGCAGGTGTTGCCGTGATTC
 ACAAGTCCTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218393 representing NM_017415
 Red=Cloning site Green=Tags(s)

MEGESVKLSSQTLIQAGDDEKNQRTITVNPAMHGKAFKVMNELRSKQLLCDVMIVAEDVEIEAHRVVLAA
 CSPYFCAMFTGDMSESKAKKIEIKDVGQTL SKLIDYIYTAEIEVTEENVQVLLPAASLLQLMDVRQNCC
 DFLQSQLHPTNCLGIRAFADVHTCTDLLQANAYAEQHFPEVMLGEEFLSLDQVCSLISDDKLTYSSE
 EKVFEAVISWINEKENRLEHMAKLMHVRLPLLPRDYL VQTVEEEALIKNNNTCKDFLEAMKYHLLPL
 DQRLLIKNPRTKPRTPVSLPKVMIVVGGQAPKAIRSVECYDFEEDRWDQIAELPSRRCRAGVVMAGHVY
 AVGGFNGSLRVRTVDVYDGVKDQWTSIASMQERRSTLGAAVLNDLLYAVGGFDGSTGLASVEAYSYKTNE
 WFFVAPMNTQRSSVGVVVEGKLYAVGGYDGASRQCLSTVEQYNPATNEWIYVADMSTRRSAGVGVL SG
 QLYATGGHDGPLVRKSVEYYDPGNTWKQVADMNMCRRNAGVCAVNGLLYVVGDDGSCNLASVEYYNPV
 TDKWTLLPTNMSTGRSYAGVAVIHKS

TRTRPLE – GFP Tag – V

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

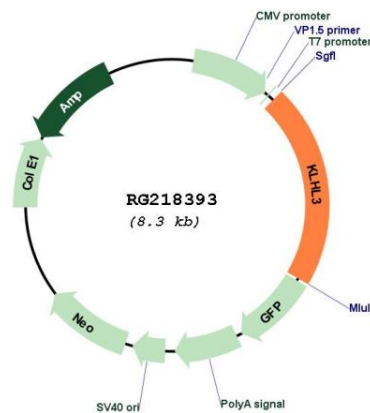
RefSeq Size: 6485 bp

RefSeq ORF: 1764 bp

Locus ID: 26249

UniProt ID:	<u>Q9UH77</u>
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 pseudohypoadosteronism 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 RG218393