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Product datasheet for RC211065

KLHDC5 (KLHL42) (NM_020782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHDC5 (KLHL42) (NM_020782) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHDC5
Synonyms:	Ctb9; KLHDC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC211065 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGCCGAGGAGATGGTGCAGATCCGCCTGGAGGACCGCTGCTACCCGGTGAGCAAGAGGAAGCTCA
TCGAGCAGAGCGACTACTTCCGCGCCCTCTACCGCTCCGGCATGCGCGAGGCCCTGAGCCAGGAGGCCGG
CGGCCCGGAGGTGCAGCAGCTGCGCGGCCTCAGCGCGCCGGGCCTGCGGCTGGTACTGGACTTCATCAAC
GCCGGCGGGGCCCGCGAAGGCTGGCTCCTGGGCCCGCGCGGGGAAAAGGGCGGCGGGGTGGACGAGGACG
AGGAGATGGATGAGGTGAGCCTGCTGTCCGAGCTGGTGGAGGCGGCCTCCTTCCTGCAGGTCACGTCCCT
GCTGCAGCTGCTGCTGTCCCAGGTGCGGCTCAATAACTGCCTGGAGATGTACCGCCTGGCGCAGGTGTAC
GGGCTGCCCGACCTGCAGGAGGCCTGCCTGCGCTTCATGGTCGTCCACTTCCACGAGGTGCTGTGCAAGC
CCCAGTTCCACCTCCTGGGGTCTCCTCCCCAAGCTCCAGGGGATGTCAGCCTGAAGCAGAGGCTGAGGGA
GGCCCGGATGACTGGGACTCCTGTCCTCGTGGCCCTCGGGGACTTCCTGGGGGGACCCCTGGCCCCTCAC
CCCTACCAGGGGGAGCCCCCGTCCATGCTCAGGTACGAGGAGATGACTGAGCGTTGGTTCCCGCTGGCCA
ACAACCTTCCTCCCGACCTGGTCAATGTCAGGGGCTATGGGTCTGCCATCCTGGACAACTACCTCTTCAT
AGTGGGCGGGTACAGGATCACTAGCCAGGAGATCTCCGCTGCGCATTCCTACAACCCCAGCACCAACGAG
TGGCTCCAGGTGGCCTCCATGAACCAGAAGAGGTCTAACTTCAAACTTGTGGCTGTTAATTCAAAACTCT
ATGCCATCGGAGGGCAGGCCGTTTCTAACGTTGAGTGTTACAACCCCGAGCAGGATGCGTGGAATTTTGT
GGCGCCCTTACCCAATCCTCTGGCTGAGTTCTCTGCCTGTGAGTGTAAGGGAAAAATTTATGTCATTGGA
GGATACACTACCAGAGACCGGAACATGAACATTTTGCAGTACTGCCCCTCTTCCGACATGTGGACGCTCT
TTGAAACATGTGACGTCCACATTCGCAAGCAGCAGATGGTGTCTGTGGAAGAGACCATCTACATCGTGGG
GGGGTGTCTCCACGAGCTGGGGCCCAACCGCAGGAGCAGCCAGAGCGAGGACATGCTCACCGTGCAGTCC
TACAACACCGTCACCCGCCAGTGGCTCTACCTCAAGGAGAACACGTCCAAATCGGGTCTTAACTTGACTT
GTGCGCTCCATAACGACGGCATCTACATCATGAGCAGAGACGTCACCCTGTCGACCAGCTTGGAACACCG
AGTGTTCCTCAAGTACAACATCTTTTCAGATAGTTGGGAAGCATTTCGGCGTTTTCCAGCTTTTGGACAT
AACTTGCTGGTTTCTTCTCTTTATCTGCCCAATAAAGCAGAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211065 protein sequence
Red=Cloning site Green=Tags(s)

MSAEEMVQIRLEDRCYPVSKRKLIEQSDYFRALYRSGMREALSQEAGGPEVQQLRGLSAPGLRLVLDFIN
AGGAREGWLLGPRGEKGGGVDEDEEMDEVSLLSELVEAASFLQVTSLLQLLLSQVRLNNCLEMYRLAQVY
GLPDLQEACLRFMVVHFHEVLCKPQFHLLGSPPQAPGDVSLKQRLREARMTGTPVLVALGDFLGGPLAPH
PYQGEPPSMLRYEEMTERWFPLANNLPPDLVNVRGYGSAILDNYLFIVGGYRITSQEISAAHSYNPSTNE
WLQVASMNQKRSNFKLVAVNSKLYAIGGQAVSNVECYNPEQDAWNFVAPLPNPLAEFSACECKGKIYVIG
GYTTRDRNMNILQYCPSSDMWTLFETCDVHIRKQQMVSVEETIYIVGGCLHELGPNRRSSQSEDMLTVQS
YNTVTRQWLYLKENTSKSGLNLTCALHNDGIYIMSRDVTLSTSLEHRVFLKYNIFSDSWEAFRRFPAFGH
NLLVSSLYLPNKAET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6585_b11.zip

Restriction Sites: SgfI-MluI

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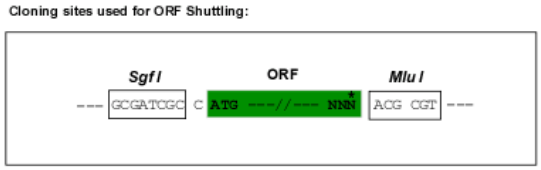
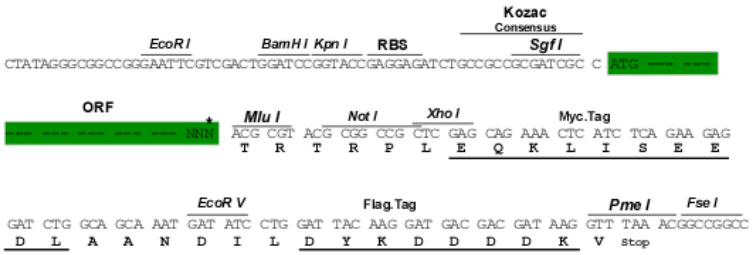
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_020782

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.

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

RefSeq: NM_020782.1, NP_065833.1

RefSeq Size: 6477 bp

RefSeq ORF: 1518 bp

Locus ID: 57542

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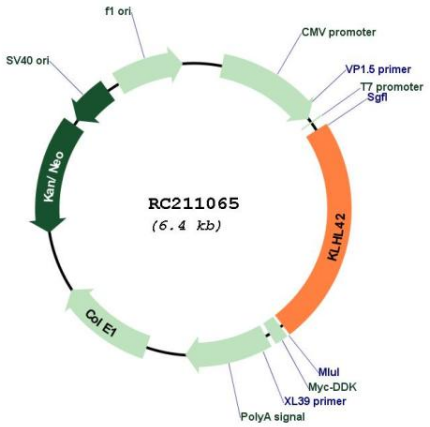
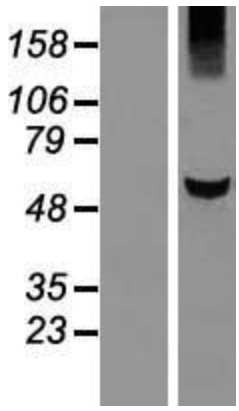
UniProt ID:	Q9P2K6
Cytogenetics:	12p11.22
MW:	56.9 kDa
Gene Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis. The BCR(KLHL42) E3 ubiquitin ligase complex mediates the ubiquitination and subsequent degradation of KATNA1. Involved in microtubule dynamics throughout mitosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211065



Western blot validation of overexpression lysate (Cat# [LY412337]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211065 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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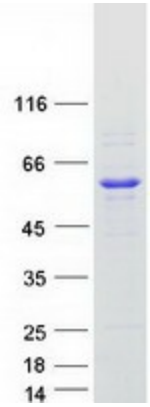

Coomassie blue staining of purified KLHL42 protein (Cat# [TP311065]). The protein was produced from HEK293T cells transfected with KLHL42 cDNA clone (Cat# RC211065) using MegaTran 2.0 (Cat# [TT210002]).

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