

Product datasheet for **RG211065**

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:	TurboGFP
Symbol:	KLHDC5
Synonyms:	Ctb9; KLHDC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211065 representing NM_020782
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCGGCCGAGGAGATGGTGCAGATCCGCTGGAGACCGCTGCTACCGGTGAGCAAGAGGAAGCTCA
 TCGAGCAGAGCGACTACTTCCGCGCCCTCTACCGCTCCGGCATGCGCGAGGCCCTGAGCCAGGAGGCCGG
 CGGCCCGGAGGTGCAGCAGCTGCGCGGCCCTCAGCGCGCCGGGCTGCGGGTGGTACTGGACTTCATCAAC
 GCGCGCGGGGCCCGCAAGGCTGGCTCCTGGGCGCGCGGGGAAAAGGCGCGGGGTGGACGAGGACG
 AGGAGATGGATGAGGTGAGCCTGCTGTCCGAGCTGGTGGAGGCGGCCCTCTTCTGCAGGTACGTCCTCT
 GCTGCAGTGTCTGTCCCAGGTGCGGCTCAATAACTGCCTGGAGATGTACCGCTGGCGCAGGTGTAC
 GGGCTGCCGACCTGCAGGAGGCTGCCTGCGCTTCATGGTCTCCTACTCCACGAGGTGCTGTGCAAGC
 CCCAGTTCACCTCCTGGGTCTCTCCCAAGCTCCAGGGATGTCAGCCTGAAGCAGAGGCTGAGGGA
 GGCCCGGATGACTGGGACTCCTGCTCCTGTCGCGCCCTCGGGGACTTCTGGGGGACCCCTGGCCCTCAC
 CCTACAGGGGGAGCCCCGCTCATGCTCAGGTACGAGGAGATGACTGAGCGTTGGTCCCGCTGGCCA
 ACAACCTTCTCCCGACCTGGTCAATGTCAAGGGCTATGGGTCTGCCATCCTGGACAACCTCTTCTCAT
 AGTGGGCGGTACAGGATCACTAGCCAGGAGATCTCCGCTGCGCATTCTACAACCCAGCACCAACGAG
 TGGCTCCAGGTGGCCTCCATGAACCAGAAGAGGTCTAACTTCAAATTTGGTGTGTTAATTCAAAATCT
 ATGCCATCGGAGGCGAGGCCGTTTCTAACGTTGAGTGTACAACCCGAGCAGGATGCGTGAATTTTGT
 GGCGCCCTTACCAATCCTCTGGCTGAGTCTCTGCTGTGAGTGAAGGAAAAATTTATGTCATTGGA
 GGATACACTACCAGAGACCGGAACATGAACATTTTGCAGTACTGCCCTCTTCCGACATGTGGACGCTCT
 TTGAAACATGTGACGTCCACATTCGAAGCAGCAGATGGTGTCTGTGGAAGAGACCATCTACATCGTGGG
 GGGGTGTCTCCACGAGCTGGGGCCCAACCGCAGGAGCAGCCAGAGCGAGGACATGCTCACCGTGCAGTCC
 TACAACACCGTCAACCGCAGTGGCTCTACCTCAAGGAGAACACGTCAAATCGGGTCTTAACCTGACTT
 GTGCGCTCCATAACGACGGCATCTACATCATGAGCAGAGACGTCACCCTGTGACCAGCTTGAACACCG
 AGTGTCTCTCAAGTACAACATCTTTTCAAGATGTTGGGAAGCATTTGCGCGTTTTCCAGCTTTTGGACAT
 AACTTGCTGGTTTCTTCTTTATCTGCCCAATAAAGCAGAAACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211065 representing NM_020782
 Red=Cloning site Green=Tags(s)

MSAEEMVQIRLEDRCYPVSKRKLIEQSDYFRALYRSGMREALSQEAGGPEVQQLRGLSAPGLRLVLDFIN
 AGGAREGWLLGPRGEKGGVDEDEEMDEVSLSELVEAASFQVTSLLQLLLSQVRLNNCLEMYRLAQVY
 GLPDLQEACLRFMVVFHEVLCKPQFHLLGSPQAPGDVSLKQRLREARMTGTPVLVALGDFLGGPLAPH
 PYQGEPPSMLRYEEMTERWFPLANNLPPDLVNVRGYGSAILDNYLFIVGGYRITSQEISAHSYNPSTNE
 WLQVASMNQKRSNFKLVAVNSKLYAIGGQAVSNVECYNPEQDAWNFVAPLPNPLAEFSACECKGKIYVIG
 GYTTRDRNMNQLQYCPSSDMWTLFETCDVHIRKQMVSVETIYIVGGCLHELGPNNRSSQSEDMLTVQS
 YNTVTQRWLKENTSKSGLNLTCALHNDGIYIMSRDVTLSLEHRVFLKYNIFSDSWEAFRRFPFGH
 NLLVSSLYLPNKAET

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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

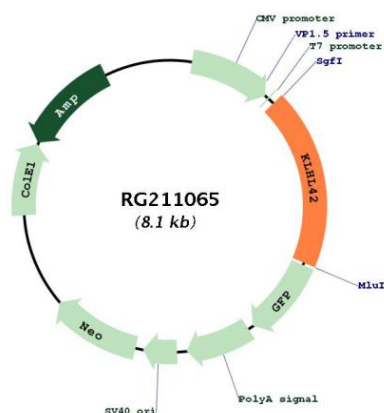
Locus ID: 57542

UniProt ID: [Q9P2K6](#)

Cytogenetics: 12p11.22

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 RG211065