

Product datasheet for **MC219581**

Klhl21 (NM_001033352) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klhl21 (NM_001033352) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klhl21
Synonyms:	1810045K06Rik; D330008A20; mKIAA0469
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219581 representing NM_001033352
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGCGCGCGCCCTTTGGCTGTGCTGCCCTTCTCCGATCCCGCGCACGCCCTAAGCCTGTTGCGCG
 GCCTCAGTCAACTGCGCGCCGAGCGCAAGTTCTGGATGTGACCCCTGGAGGCGCGCGGCCGCGACTT
 CCCCAGCGCACCGCGCGTGTGCGCGCCGCTAGTCCCTACTTCCGCGCCATGTTGCGGGCCAGCTGCGC
 GAGAGCCGCGCCGAGCGCGTGCAGCGGGTGCAGCCGACATGCTGCAGCTGCTCCTGGACTTCA
 GCTACACCGCGAGAGTGGCGGTGAGCGCGACAACGCCGAGCCGCTGCTGCGCGCCGCGACCTGCTGCA
 GTTCCCCGCCGTGAAGGAGGCGTGCAGCGCTTCTGCAGCAGCAGCTCGACCTGGCCAACCTGCCTGGAC
 ATGCAGGACTTCGCCAGGCCTTCACTGCTCGGGGTGGCGAGCGCTGCGCAACGCTTCATCCTGCGCC
 ACGTGGGCGAACTGGGCGCCGAGCAACTGGAGAGGCTGCCGCTGGCGCGCTGCTGCGCTACCTGCGCGA
 CGACGGGCTGTGCTGCCAAGGAGGAGCGGCCCTACCAGCTGGCGCTGCGCTGGGTGCGCGCGGACCCG
 CCGCGCCGCGCGCGCACTGGCCGAGTTGCTGGAGGCTGTGCGCTGCCCTTCGTGCGCGCTTCTACC
 TGCTGGCACACGTGGAGGCCGAGCCACTGGTGGCGCGCTGCCACCTTGCTGCGCTGCTGCGCGAGGC
 CCGCGACTTCCAGGCGGCTCGTACGACCGGCACGACCGCGGGCCCTGCCCGCATGCGTCCGCGCCCG
 TCCACCGCCTGGCCGAGATCCTGGTGTGGTGGGAGGTTGTGACCAGGACTGCGACGAGCTGGTTACGG
 TCGACTGCTACAATCCGAGACCGGCCAGTGGCGTTACCTGGCCGAGTTCCTCCGATCACTTAGGTGGGG
 CTATAGTATCGTGGCTCTGGGCAACGACATCTACGTGACGGCGGGTCTGATGGCTCCCGCTCTATGAC
 TCGGTGTGGAGATACAATTCGAGTGTGAACGAGTGGACGGAGGTGGACCCATGCTCAAGGCCGAGAGT
 ACCACAGCTCCTCAGTGCTAGACGGCTTCTGTATGTGGTGGCAGCCGACAGCACGAGCGCTATGACCA
 TGCCACCGACTCCTGGGAGGCACTGCAGCCCATGACCTACCCATGGACAACCTGCTCTACCACTGCCTGC
 CGAGGCCGACTCTATGCCATTGGCTCCCTGGCAGGCAAGGAGACCATGGTGATACAGTGCTATGACCCAG
 ACACTGATCTGTGGTGTGCTGGAAGTGTGGCAGCTCCACCGTGGTCTTTGCGCCCAAGACTGTGAC
 TTTGAATGGACTCATGTACTTCGTGAGGATGACTCTGCCGAGGTGGACGTCTACAACCCCACTAAAGAC
 GAATGGGACAAGATCCCATCCATGAATCAGGTACACGTTGGGGGAGCCTGGCCGCTCTGGGAGGCAAAAC
 TCTATGTCTCTGGGGGTACGACAACACCTTTGAAGTCTCGGACGTGGTGGAGGCATATGACCCAGAGAC
 CCGGGCCTGGAGTGTGGTGGGGCGCTTCCAGAGCCACCTTCTGGCACGGCAGCGTGAAGCATCTCCGC
 CAGTTCATGCCACAGACACCGGAGGGGGCGTGGCTTCGAGCTGAACAGTGGTAGCAATGACGTGGATG
 CAGGCTACCACAGGCTGCCACAGAACCCGAGGAGCTGCAT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001033352

Insert Size: 1794 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_001033352.3, NP_001028524.1</u>
RefSeq Size:	3895 bp
RefSeq ORF:	1794 bp
Locus ID:	242785
UniProt ID:	<u>Q3U410</u>
Cytogenetics:	4 E2
Gene Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for efficient chromosome alignment and cytokinesis. The BCR(KLHL21) E3 ubiquitin ligase complex regulates localization of the chromosomal passenger complex (CPC) from chromosomes to the spindle midzone in anaphase and mediates the ubiquitination of AURKB. Ubiquitination of AURKB by BCR(KLHL21) E3 ubiquitin ligase complex may not lead to its degradation by the proteasome (By similarity).[UniProtKB/Swiss-Prot Function]