

Product datasheet for **RN201974**

KIhl21 (NM_001107996) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIhl21 (NM_001107996) Rat Untagged Clone
Tag:	Tag Free
Symbol:	KIhl21
Synonyms:	RGD1305863
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN201974 representing NM_001107996
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGCGCGCGCCCTTTGGCCGTGCTGCCCTTCTCCGATCCCGCGCACGCCCTGAGCCTGCTGCGCG
 GCCTGAGCCAGCTGCGCGCCGAGCGCAAGTTCTGGACGTGACCCCTGGAGGCGGCGGCCGCGACTT
 CCCC GCGCACCGCGCGTGTGGCGGCCCGAGTCCCTACTTCCGCGCCATGTTGCGGGCCAGCTGCGC
 GAGAGCCGCGCCGAGCGCGTGCCTGCACGGGTGCCGCCGACATGCTGCAGTGCTCCTGGACTTCA
 GCTACACCGCGAGAGTGGCGGTGAGCGGTGACAACGCCGAGCCGCTGCTGCGCGCCGCGACCTGCTGCA
 GTTCCCCGCCGTGAAGGAGGCGTGCAGCGCTTCTGCAGCAGCAGCTCGACCTGGCCAACCTGCCTGGAC
 ATGCAGGACTTCGCCGAGGCCTTCACTGCTCCGGGTGGCGAGCGCTGCGCAGCGCTTCATTCTGCGCC
 ACGTGGGCGAACTGGGCGCCGAGCAGCTGGAGAGGCTGCCGCTGGCGCGCTGCTGCGCTACCTGCGCGA
 CGACGGGCTGTGCTGCCAAGGAGGAGCGGCCCTACCAGCTGGCGCTGCGCTGGTCCGCGCGGACCCG
 CCGCGCCGCGCGCGCACTGGCCGAGTTGCTGGAAGCTGTGCGCTGCCCTTCGTGCGCGCTTCTACC
 TGCTGGCACACGTGGAGGCAGAGCCCTGGTGGCGCGCTGCCCGCTTGCTGCGCTGCTGCGCGAGGC
 CCGCGATTTCCAGGCGGCTCGTACGACCGGCATGACCGCGGGCCCTGCCCGCATGCGTCCGCGTCCC
 TCCACCGCTTGCGCGAGATCCTGGTACTGGTGGGAGTTGCGACCGAGTGGCAGCAGCTAGTCACGG
 TTGACTGCTACATCCGAGACCGGGCAGTGGCGCTACCTGGCCGAGTTCCTCCGATCACTTAGGCGGGG
 CTATAGTATCGTGGCACTGGGCAACGACATCTACGTGACGGGTGGTCCGACGGCTCCCGCTCTATGAC
 TCGCTGTGGAGATACAACTCGAGTGTGAACGAGTGGACGGAGTGGTCCCATGCTCAAAGCCCGGAGT
 ACCATAGTCTCTGTGCTAAATGGGCTTCTGTACGTGGTGGCAGCTGACAGCACCGAACGCTATGACCA
 CGCCACTGACTCCTGGGAGGCCCTGCAGCCCATGACCTACCCATGGACAACTGCTCTACCACTGCCTGC
 CGGGGCCGACTCTATGCCATCGGCTCCCTGGCGGCAAGGAGACCATGGTGATACAGTGCTATGACCCAG
 ACACCGATCTGTGGTCTGATGGTGAAGTGTGGCAGCTCCACCCCTGGTCTTTGACCCCAAGACTGTGAC
 TTTGAATGGACTCATGTACTTCGTGAGGATGACTCTGCTGAGGTGGATGTCTATAACCCCAAGGAC
 GAGTGGGACAAGATCCCATCTATGAACAGGTACACGTTGGGGGAGCTTGGCGGCCCTGGGAGGCAAGC
 TCTATGTCTCTGGGGGTATGACAACACCTTTGAAGTCTCGGATGTGGTGGAGGCATATGACCCAGAGAC
 CCGGGCGTGGAGTGTGGTGGGGCGGCTTCAGAGCCACCTTCTGGCATGGCAGTGTGAGTATCTCCGT
 CAGTTCATGCCGAGACACCGGAGGGGCGGCTTCCAGCTGAACAGTGGCAGCAGTACGCTGGATG
 CAGGCCACCACAGGCTGCCACAGAACCCGAAGAGCTACAA**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001107996

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.
RefSeq:	<u>NM_001107996.1, NP_001101466.1</u>
RefSeq Size:	3830 bp
RefSeq ORF:	1794 bp
Locus ID:	313743
UniProt ID:	<u>D4A2K4</u>
Cytogenetics:	5q36
Gene Summary:	Substrate-specific adapter of 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]