

Product datasheet for **SC114808**

KLHL21 (NM_014851) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL21 (NM_014851) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLHL21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114808 sequence for NM_014851 edited (data generated by NextGen Sequencing)

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ATGGAGCGACCGGCGCCCTGGCCGTGCTTCCCTTCTCGGACCCCGCGCACGCCCTGAGC
CTGCTGCGCGGCTGAGCCAGCTGCGCGCCGAGCGCAAGTTCTGGACGTGACCTGGAG
GCGGGGGGCGGCGGCGACTTCCCGGCGCACCGTGCGGTGCTGGCCGCCCGACCCCTAC
TTCCGCGCCATGTTTCGCGGGGCGAGTGCAGAGAGCCGCGCCGAGCGGGTGCCTGCAC
GGAGTGCTCCCGACATGCTGCAGCTGCTGCTGGACTTCAGCTACACGGGCCGCGTGGCG
GTAAGCGGCGACAACGCTGAGCCGCTGCTGCGCGCCGCGGACCTGCTGCAGTTCCCGGCC
GTGAAGGAGGCGTGCGGGGCTTCTGTCAGCAGCAGCTCGACCTGGCCAAGTGCCTGGAC
ATGCAGGACTTCGCTGAGGCCTTCAGCTGCTCGGGACTGGCGAGCGCGCGCAGCGGTTT
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CTGGCGCTGCGCTGGGTCCGCGCTGACCCGCGCGCGCGCGCGCACTGGCCGAGCTG
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GAGCCGCTGGTGGCGCGCTGCCACCTGCCTGCGCCTGCTGCGCGAGGCGCGCGACTTC
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TCCACCGGTCTCGCCGAGATCCTCGTGCTCGTGGGCGGCTGCGACCAAGACTGTGACGAG
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GACGGAAGTGTGTACGTGGTGGCGCCGACAGCACCAGCGCTATGACCACCACTGAC
TCCTGGGAGGCCCTGCAGCCATGACCTACCCATGGACAAGTGTCCACCACTGCGTGC
CGTGGCCGCTCTATGCCATCGGCTCCCTGGCTGGCAAGGAGACCATGGTGATGACAGTGC
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TTGCCGCCAAGACTGCGACTCTAAACGGACTCATGTACTTTGTGAGGGATGACTCCGCT
GAGGTGGACGTGTACAACCCGACGAGGAACGAATGGGACAAGATCCCGTCCATGAATCAG
GTACATGTGGGGGCGAGCCTGGCCGCTCTTGGGGGAAGCTGTACGTCTCTGGGGGATAC
GACAATACATTTGAAGTCTCGGACGTGGTAGAGGCCTATGACCCAGAGACTCGCGCGTGG
AGCGTGGTGGGGCGGCTCCAGAACCCACCTTCTGGCATGGCAGTGTGAGCATCTCCGC
CAGTTCATGCCCCAGACCTTCTCGGGTGGGCGTGGCTTCGAGTTGGACAGTGGCAGCGAT
GACATGGACCCAGGCCGACCCCGCGCGCGGACCCCGATGAGCTGCACTAG

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Clone variation with respect to NM_014851.2
1029 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014851 unedited
 GCATTTGTATACGACTACTATAGGCGGCCCGCAATTCGCACGAGGCTAGCGCGCCGCT
 CTCTCCGACAGGCCGCGGCCGCGGCTCTCGACAACTATCGAAGGCGCCATGGAGCGAC
 CGGCGCCCTGGCCGTGCTTCCCTTCTCGGACCCCGCGCACGCCCTGAGCCTGCTGCGCG
 GCCTGAGCCAGCTGCGCGCCGAGCGCAAGTTCTGGACGTGACCTGGAGGCGCGGGCG
 GGCGCGACTTCCCGCGCACCGTGCGGTGCTGGCCGCCCGAGCCCTACTTCCGCGCCA
 TGTTCGCGGGGACGCTGCGCGAGAGCCGCGCGGAGCGGTGCGCCTGCACGGAGTGCCTC
 CCGACATGCTGCAGCTGCTGCTGGACTTCAGCTACACGGGCCGCGTGGCGGTAAGCGGCG
 ACAACGCTGAGCCGCTGCTGCGCGCCGCGACCTGCTGCAGTTCCCGGCCGTGAAGGAGG
 CGTGCGNGCCTTCTGACGACGAGCTCGACCTGGCCAACTGCCTGGACATGCAGGACT
 TCGCTGAGGCTTCAGCTGCTCGGACTGGCGAGCGCGCGCAGCGTTTATTCTGCGCC
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 CTGGGTCCGCGTGACCCGCCGNGCCGCGCCGCGCACTGGCCGCGCTGCTTGGAGGCCG
 TGCGCCTGCCCTTCGTGCGCCGCTTCTACCTGTTGGCGCACGTCNAGGCCGAGCCGCTGG
 TGGNCGCGCTGCCACCCCTGCCTGCGCCTGCTGCGCGAGGCGCGGCACTTNCAGGCGNG
 CGCTACGACGCCGNNACGCGGCCCTGTNCCCCGAATGCGTCTCGCGCTCCACGTCTTTGC
 CGGGATCTCGGGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014851 unedited
 GACGCGGCCGCACTCTATGATCGAGTTTTTTTTTTTTTTTTTTTGGATAGGAAATACTTTT
 ATTGCAAAAAGTACTGAAGGTACCCTAAACCTTAAGCAGGATTCTGGACATGGAAGCCT
 ACAGAATAGACAAAAATAAATATGTCAACCTGCCGACCCCTCTGGGGTGAAGTGGATGTG
 GACACTGGAGGGAGGGCTCCTTTATTACATACGCGTCTCTGAAGTCATATAAATATAGA
 ATACCTTATAGTAGATCAGCATTAAATACCAGTCACTGTGTTTATATAACTTAATTTGAG
 CTGTAGACAAAGTTCTGTACATGTAACATGTGGCCATGCCAGGCATCCCAGCATCTATC
 CTGAAGTCAGTGTAAAGACATCCTTAAGTGGTGGAGACATGACAGCCAGAACCCACAGC
 AGAGGGAACTGGGGAGAGGAGGGGGCTGACCCTGGATCCCCAGCTGGTGTCACAGG
 CTAGAGGGACCCATTGCTGCAGAAGCTGGTGCCTGGTTTTCCCATACTTGGTCTTCTAA
 ACCCAAGACAGGGTCTGATGGTGGAGACCTGGGTAGTCCCGAGGACAGACACAGGAG
 AGGGCACAAATCCCAAGCGCAGCTCTCCTGCACTGGCTCGCACCAAGCCTCATCTGAGT
 GGCCGACACAAGCCTGGAGTACCGCAGCTGCCAACACAGCAAAGCCGCAAAAAGACTGA
 GAAAACAAGGATCCCAGATTTCCACAAGGGCAAGGCCTCGCATACCATCCAAGCCGAGA
 TGCCCTGTGCCTCCAGTCATCACATTCTGGACAGATGTTCTCTCGTGGTGCCACCTCA
 CTGCCTTGGAACGTCAGGGATTGAGGCCGTAACAACCTTTATGCCAAACAGCCTTAAC
 CCCCTGCTGAAAGGAGAAAAGCTGCCCCGCTAACTCCACAACCTTTGGTGGGCTAACACC
 CCCTAGATTTAAGGAACCCCGCGCGGGCCTCCTGAGATTT

Restriction Sites:

NotI-NotI

ACCN:

NM_014851

Insert Size:

4470 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_014851.2, NP_055666.2</u>
RefSeq Size:	4502 bp
RefSeq ORF:	1794 bp
Locus ID:	9903
UniProt ID:	<u>Q9UIP4</u>
Cytogenetics:	1p36.31
Domains:	BTB, Kelch
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.[UniProtKB/Swiss-Prot Function]