

## Product datasheet for **RN206896**

### **Klhl15 (NM\_001108021) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Klhl15 (NM_001108021) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Klhl15
Synonyms:	RGD1563101
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN206896 representing NM\_001108021  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGGGGACGTGGAAGGATTCTGTCTCCATCCATGACACCAGTGTCTCTGCTGGTTTCAGAGCAC  
 TGTATGAGGAGGATTGCTTCTTGATGTCACTCTGGTTATTGAAGACCATCAGTTCCAGGCCATAAAGC  
 CCTCTGGCCACCCAGAGTGATTACTTCAAGATTATGTTACAGCAGATATGAGGGAACGAGATCAGGAC  
 AAAATTCAATTTGAAGGTCTAACAGCTACTGGTTTCAGCCACGTTCTTCAGTTTATGATTATGAACTA  
 TAGAACTAAGTATGAATACTGTTCAATGAAATCCTTCAGGCAGCAATGTATGTTCCAGCTTATAGAAGTGGT  
 GAAATTCTGCTGCTCTTTCTCTAGCCAAAATCTGCTTAGAAAATTGTGCGGAAATATGAGACTGTTA  
 GATGATTTTGGTGTAAACATCGAGGGAGTCAGGGAGAAGCTGGATGCCTTCTGCTAGACAACTTCGTGC  
 CACTCATGTCCAGGCCTGACTTCTGTCTTATCTGAGCTTTGAGAAGCTCATGTCTTATTTGGATAATGA  
 TCATCTGAGCAGTTTCCAGAAAATAGAGCTGTACGAGGCTGTGCAGTCTTGGCTGCGACATGATAGACGA  
 CGGTGGAGACACACAGATACCATCATTCAAGACATCAGGTTTTGTCTGATGACTCCATCCAGCGTTTTTG  
 AGAAGGTTAAAACATCAGAAATTTATAGATACTCCCGACAGCTGCGGTATGAAGTTGACCAAGCATTGAA  
 TTACTTCCAAAATGTTCCACCAGCAACCCTGTTGGACATGAAATCAAGCCGATTCGTTCTGCCAAACCC  
 CAAACTACAGTATTCGAGGAATGATTGGACATAGCATGGTTAATAGTAAATACTCCTGTTAAAGAAAC  
 CAAGAGTCTGGTGGAACTGGAGGGCCCCAAGTACCTTAAGACCAGACTGCCTTGCCATTGTCAATAA  
 TTTTGTCTCTGCTAGGTGGCAAGAGCTGGGCCCGATGGAGAATCCATGCCTTTCGAAAGTGTTC  
 AGGTATGATCCAAGACAAAATCTTGGCTGCGTATGCCAGACATGTCTGTACCACGTTTCCAGAAATTTGCTG  
 TTGGTGCATTGGGAAGTTTATTTATGCTGTAGCAGGCAGAACAAAGAGATGAAACTTTCTACTCAACAGA  
 AAGATACGATATCACTAACGATAAATGGGAATTCGTAGATCCTTATCCAGTTAACAAATATGGACATGAG  
 GGGACAGTGCTCAATAACAAGTTGTTTACTGAGGGAATCACTTCATCTTCCACATCTAACAGGTGT  
 GTGATTTGACCCAGTAAAGAAGGGACCATAAGACAGCGGACCAGGAGAACTCAAGTGGTTACCAACTG  
 CTGGGAGAATAAAAGCAAGATGAATTAAGTAGATGCTTTTACAAGATGATCTCTATAATGGCAAGCTT  
 TATGCTTTTGGTGGTGTCTGTGTGATCTTGGGGCCTTTTTGAATCTCAGGGCTGCCCTTCCACAGAGG  
 TGTATAACCCAGATACTGATCAATGGACCATCTGGCATCTATGCCAATTGGTAGAAGTGGTCACGGTGT  
 GACTGTGCTGGACAAACAATCATGGTCTTGGGGCCTTTGTTATAATGGTCATTACAGTGATTCCATT  
 CTCACCTTTGACCCAGATGAAAATAAGTGAAAGAAGATGAGTACCCTCGGATGCCCTGCAAGCTGGATG  
 GTTTACAGGTGTCAACCTCCATTTCCGGACTATGACTGGATGAGGTTAGGCGTTGCAACT**G**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001108021

**Insert Size:** 1815 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:** [NM\\_001108021.1](#), [NP\\_001101491.1](#)

**RefSeq Size:** 1969 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 314111

**UniProt ID:** [D3ZA50](#)

**Cytogenetics:** Xq22

**Gene Summary:** Substrate-specific adapter for CUL3 E3 ubiquitin-protein ligase complex. Acts as an adapter for CUL3 to target the serine/threonine-protein phosphatase 2A (PP2A) subunit PPP2R5B for ubiquitination and subsequent proteasomal degradation, thus promoting exchange with other regulatory subunits and regulating PP2A holoenzyme composition. Acts as an adapter for CUL3 to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation. Through the regulation of RBBP8/CtIP protein turnover, plays a key role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR).[UniProtKB/Swiss-Prot Function]