

## Product datasheet for **MG209669**

### **Klhl13 (NM\_026167) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Klhl13 (NM_026167) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Klhl13
Synonyms:	1200009K10Rik; AI451128; Bklhd2; D130072F20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209669 representing NM\_026167  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATATTCTTCACAGAGGAGAATTGGTTGCTGCAATACTCCGCAACCGATCACTTGTGGAAGAGGAAG  
 ACCAGCACTTGAAACTGTGCCTTGGAAAGTAAAATGGGCCTCTCTCCATTTGCAGTCTTGAAGGAGG  
 AAGTACACGCATCTTTACCAGCAACAGCCACAGTTCTGTGGTGTACAGGGCTTTGACCAGCTTCGGCTT  
 GATGGATTGCTTTGTGATGTGACACTGATGCCAGGTGATACAGATGATGCTTACCCTGTGCACAGAGTCA  
 TGATGGCATCTGCTAGTGACTACTTCAAAGCTATGTTACAGGTGGAATGAAAGAACAAGAGCTGATGTG  
 CATTAAGCTTCATGGCGTGAGCAGAGTGGGTCTACGAAAATTATTGATTTTATCTATACTGCAAAGCTT  
 TCTCTTAACATGGACACCCTTCAGGATACGCTGGAAGCCGCCAGCTTTCTCAGATTCTCCGGTTTTAG  
 ACTTCTGCAAAGTGTCTCATATCTGGGGTCACTTTGGATAACTGTGTTGAAGTTGGACGGATTGCCAA  
 CACCTACCATCTGACAGAAGTGGATAAATATGTCAACAGCTTCGTCTTAAAGAATTTTGTGCATTGCTG  
 AGCACTGGGGAGTTCTGAAGCTTCCCTTCGAGCGCTTGCCTTTGTCTGTCCAGCAACAGCCTTAAGC  
 GCTGCACCGAACTTGACCTCTTCAAAGCTACCTGTGCTGGCTTCGCCTGGAAGAACCTAGAATGGACGT  
 TGCTGCAAACTAATGAAGAATATACGATTTCCGCTGATGACACCACAGGAGCTCATTAATTATGTGCAA  
 ACCGTGGATTTTATGAGAAGTACAATACTTGGCTCAATTTGCTTCTGGAAGCCAGCAATTACCAATGA  
 TGCCGTTTATGCAGCCAGTTATGCAGTCAGACAGGACTGCCATTCGGTCTGACACCACCTCGTTGGTTAC  
 ACTCGGAGGAGTCTGAGACAGCAGCTTGTGTCAGTAAAGAATTGCGCATGTATGATGAAAAGACCCAC  
 GAGTGGAAATCTCTAGCCCCATGGATGCCCAAGATACCAGCATGGCATTGCTGTATCGGAAATTTTC  
 TCTACGTTGTTGGTGGCAGAGTAATTATGACACAAAAGGAAAAACCGCGTTCGATACAGTGTTTAGAT  
 TGATCCTCGATACAACAATGGATCCAAGTTGCATCTTTAAATGAAAAGCGCACCTTCTCCACCTAAGT  
 GCCCTCAAAGGATTTCTGTATGCAGTTGGTGGACGAAATGCAGCTGGAGAATCCCTACTGTGGAATGTT  
 ACAATCCGAGAACAAATGAATGGACCTATGTTGCCAAAATGAATGAACCTCACTATGGCCATGCTGGAAC  
 TGTGTATGGAGGAGTGTATATTTTCCAGGAGGAAATACCCATGACACTTCCAAAAGGAGCTCATGTGC  
 TTCGACCCTGATACTGACAAATGGACCCAGAAGGCACCGATGACCACTGTCCGAGGCCTACACTGCATGT  
 GTACGGTGGGAGATAGGCTCTACGTCATTGGTGGCAACCATTTCCGAGGAACAGTGATTATGATGATGT  
 CCTGAGCTGTGAATACTACTCACCTATCCTTGACCAGTGGACCCCAATTGCTTCCATGTTAAGAGGGCAG  
 AGTGATGTTGGGGTCTGTCTTTGAGAATAAAATCTATGTGGTGGTGGCTATTATGGAATAATCGCT  
 GTATGGTAGAGATAGTGCAGAAGTATGATCCAGAGAAAAATGAATGGCATAAGGTTTTCCATCTGCCAGA  
 GTCTCTTGGTGGTATTGAGCTTACACTTACAGTTTATCCACCTGAAGAAGCCACACCATCACCTTCT  
 AGAGAGTCCCCTCTTCTGGACCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209669 representing NM\_026167  
 Red=Cloning site Green=Tags(s)

MDILHRGELVAAILRNRSLSVEEEDQHLKLCLGSEMGLSSHLQSCKAGSTRIFTSNSHSSVVLQGFQDLRL  
 DGLLCDVTLMPGDTDDAYPVHRVMMASADYFKAMFTGGMKEQELMCIKLHGVSRLRRIIDFIYAKL  
 SLNMDTLQDTLEAASFLQILPVLDFCKVFLISGVTLNDCVEVGRIANTYHLTEVDKYVNSFVLKNFAALL  
 STGEFLKLPFERLAFVLSNSLKRCTELDLFKATCRWLRL EEPMDVAAKLMKNIRFPLMTPQELINYYVQ  
 TVDFMRTDNTCVNLLLEASNYQMPPMQPVMQSDRTAIRSDTTRLVTLGGVLRQQLVVSKELRMYDEKTH  
 EWKSLAPMDAPRYQHGI AVIGNFLYVVGQSNYDTKGKTAVDTVFRFDPYRNKWIQVASLNEKRTFFHLS  
 ALKGFLYAVGGRNAAGELPTVECYNPRNTNEWYVAKMNEPHYGHAGTVYGGVMIISGGITHDTFQKELMC  
 FDPDTDKWTQKAPMTTVRGLHMCCTVGDRLYVIGGNHFRGTSDDYDVLSCYEYSPILDQWTPIASMLRGQ  
 SDVGVAVFENKIYVVGYSWNNRCMVEIVQKYDPEKNEWHKVFDLPESLGGIRACTLTVVPPEEATPSPS  
 RESPLSGP

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_026167

ORF Size: 1914 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.

RefSeq: [NM\\_026167.4](#), [NP\\_080443.1](#)

RefSeq Size: 3222 bp

RefSeq ORF: 1917 bp

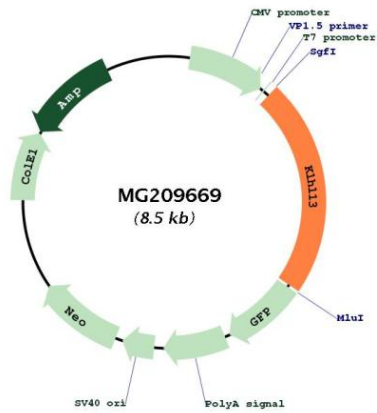
Locus ID: 67455

UniProt ID: [Q80TF4](#)

**Cytogenetics:** X A2

**Gene Summary:** Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis. The BCR(KLHL9-KLHL13) E3 ubiquitin ligase complex mediates the ubiquitination of AURKB and controls the dynamic behavior of AURKB on mitotic chromosomes and thereby coordinates faithful mitotic progression and completion of cytokinesis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209669