

## Product datasheet for **MG206865**

### **KIh118 (BC025563) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIh118 (BC025563) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KIh118  
**Synonyms:** A930041K15, MGC36415  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG206865 representing BC025563  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGTGTGCTGTGTTGTACGATGCAGCCAACAGCTTCATCCACCAGCACTTTGTAGAGGTGTCTCTGT  
 CCGAAGAGTTCCTGGCCCTGCCCTTGAAGACGTGCTTGAGCTGGTGTCCCGGATGAGCTGAATGTGAA  
 GTCAGAGGAGCAGGTTTTGAAGCTGCATTGGCCTGGGTCAGGTATGACCGGGAGCAGAGGGGACCATGC  
 CTGCCGAGCTGCTGTCCAATATCCGCCTGCCTCTTTGCCGCCCGAGTCTTATCAGATCGAGTGCAGC  
 AAGATGACCTGGTACGGTGTGCACAAATGCAGGGACCTGGTCGATGAAGCAAAGGACTATCATCTGAT  
 GCCAGAGCGCCGCCACCTGCCAGCTTTCAGGACTCGGCCCGATGCTGCACGTCCATCGCTGGGCTC  
 ATCTACGCTGTGGGGGGCTCAACTCAGCAGCAAATTTTATGCAGGTGATTCCTGAATGTGGTGGAA  
 GTTTCGACCCTATCGCCAATCGCTGGGAAAAGTGCCATCCCATGACAACAGCCCGAAGCCGTGTGGGTGT  
 GGCTGTGGTGAACGGGCTCCTCTATGCTATCGGGGATATGATGGTCAGTTGCGGCTGAGCACCGTGGAG  
 GCCTACAATCCTGAGACGGACACATGGACCCGAGTGGGGAGCATGAATAGCAAGCGAAGTGCCATGGGGA  
 CAGTCGTGCTGGATGGACAGATCTACGTGTGTGGAGGCTATGACGGCAACTCCTCCCTCAACTCTGTGGA  
 GACCTACTCACCTGAGACGGACAAGTGGACAGTGGTACTCCGATGAGCTCAAACCGGAGTGTCTGGG  
 GTGACAGTCTTTGAGGGCAGGATATATGTGTGAGGAGCCACGATGGCTTGACAGATCTTCAGCAGTGTGG  
 AACACTACAACCACACACGGCCACCTGGCACCCGGCAGCAGCATGCTCAACAAGCGCTGCCGACACGG  
 AGCCGCTCCCTGGGAAGCAAGATGTTTGTCTGTGGGGCTATGATGGCTCTGGTTCCTCAGTATTGCT  
 GAGATGTACAGCTCTGTGGCAGACCAGTGGTGTCTCATAGTACCCATGCACACACGCCGGAGCCGGTCT  
 CCCTCGTGGCCAGCTGTGGGCGCCTCTATGCAGTGGGAGGTTACGATGGACAGTCAAACCTAAGCTCAGT  
 GGAGATGTACGACCCAGAGACGGACCGCTGGACATTTATGGCCCCATGGCATGCCACGAGGGGGGGT  
 GGTGTGGGCTGCATCCCTCTTCTACCATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206865 representing BC025563  
Red=Cloning site Green=Tags(s)

```

MMCAVL YDAANSFIHQHFVEVSLSEEF LALPLEDVLELVSRDELNVKSEEQVFEALAWVRYDREQRGPC
LPELLSNIRLPLCRPQFLSDRVQQDDLVRCHKCRDLVDEAKDYHLMPERRPHLPAFRTRPRCCTSIAGL
IYAVGGLNSAANFYAGDSLNVVEVFDP IANRWEKCHPMTTARSRVGVAVVNGLLYAIGGYDGLRLSTVE
AYNPETDTWTRVGSMNKRSAMGTVVLDGQIYVCGGYDGNSSLNSVETYSPETDKWTVVTPMSSNRSAAG
VTVFEGRIYVSGGHDGLQIFSSVEHYNHHTATWHPAASMLNKRKRHGAASLGSKMFVCGGYDGSGLSIA
EMYSSVADQWCLIVPMHTRRSRVSLVASCGRLYAVGGYDQSNLSSVEMYDPETDRWTFMAPMACHEGGV
GVGCIPLLLTI
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC025563

**ORF Size:** 1292 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:** [BC025563](#), [AAH25563](#)

**RefSeq Size:** 4559 bp

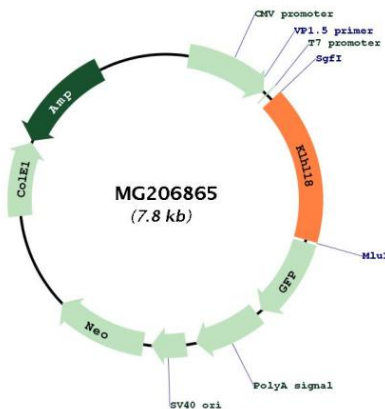
**RefSeq ORF:** 1292 bp

**Locus ID:** 270201

**Cytogenetics:** 9 F2

**Gene Summary:** Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis (By similarity). The BCR(KLHL18) E3 ubiquitin ligase complex mediates the ubiquitination of AURKA leading to its activation at the centrosome which is required for initiating mitotic entry (By similarity). Regulates light- and dark-dependent alpha-transducin localization changes in rod photoreceptors through UNC119 ubiquitination and degradation (PubMed:31696965). Preferentially ubiquitinates the unphosphorylated form of UNC119 over the phosphorylated form (PubMed:31696965). In the presence of UNC119, under dark-adapted conditions alpha-transducin mislocalizes from the outer segment to the inner part of rod photoreceptors which leads to decreased photoreceptor damage caused by light (PubMed:31696965).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG206865