

Product datasheet for **MR206865**

KIh18 (BC025563) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | KIh18 (BC025563) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | KIh18 |
| Synonyms: | A930041K15, MGC36415 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR206865 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTGTGCTGTGTTGTACGATGCAGCCAACAGCTTCATCCACCAGCACTTTGTAGAGGTGTCTCTGT
 CCGAAGAGTTCCTGGCCCTGCCCTTGAAGACGTGCTTGAGCTGGTGTCCCGGGATGAGCTGAATGTGAA
 GTCAGAGGAGCAGGTTTTTGAAGCTGCATTGGCCTGGGTGAGGTATGACCGGGAGCAGAGGGACCATGC
 CTGCCGAGCTGCTGTCCAATATCCGCCTGCCTCTTTGCCGGCCCCAGTTCTTATCAGATCGAGTGCAGC
 AAGATGACCTGGTACGGTGTGCACAAATGCAGGGACCTGGTCGATGAAGCAAAGGACTATCATCTGAT
 GCCAGAGCGCCGCCACCTGCCAGCTTTCAGGACTCGGCCCGATGCTGCACGTCCATCGCTGGGCTC
 ATCTACGCTGTGGGGGCTCAACTCAGCAGCAAATTTTATGCAGGTGATCCCTGAATGTGGTGAAG
 TGTTTCGACCTATCGCCAATCGTGGGAAAAGTCCATCCATGACAACAGCCGAAGCCGTGTGGTGT
 GGCTGTGGTGAACGGGCTCCTCTATGCTATCGGGGATATGATGGTCAGTTGCGGCTGAGCACCGTGGAG
 GCCTACAATCCTGAGACGGACACATGGACCCGAGTGGGGAGCATGAATAGCAAGCGAAGTCCATGGGGA
 CAGTCGTGCTGGATGGACAGATCTACGTGTGTGGAGGCTATGACGGCAACTCCTCCCTCAACTCTGTGGA
 GACCTACTCACCTGAGACGGACAAGTGGACAGTGGTACTCCGATGAGCTCAAACCGGAGTGTCTGGG
 GTGACAGTCTTTGAGGGCAGGATATATGTGTGTCAGGAGGCCACGATGGCTTGACAGTCTTCAGCAGTGTG
 AACACTACAACCACACCGCCACCTGGCACCCGGCAGCCAGCATGCTCAACAAGCGCTGCCGACACGG
 AGCCGCTCCCTGGGAAGCAAGATGTTGTCTGTGGGGCTATGATGGCTCTGGCTTCTCAGTATTGCT
 GAGATGTACAGCTCTGTGGCAGACCAGTGGTGTCTCATAGTACCCATGCACACGCCGGAGCCGGTCT
 CCCTCGTGGCCAGCTGTGGCGCCTCTATGCAGTGGGAGGTTACGATGGACAGTCAAACCTAAGCTCAGT
 GGAGATGTACGACCCAGAGACGGACCGCTGGACATTTATGGCCCCATGGCATGCCACGAGGGGGGGTT
 GGTGTGGGCTGCATCCCTCTTCCACCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206865 protein sequence
 Red=Cloning site Green=Tags(s)

MMAVL YDAANSFIHQHFVEVSLSEEF LALPLEDVLELVSRDELNVKSEEQVFEALAWVRYDREQRGPC
 LPELLSNIRLPLCRPQFLSDRVQQDDLVRCHKCRDLVDEAKDYHLMPEPERRPHLPAFRTRPRCCTSIAGL
 IYAVGGLNSAANFYAGDSLNVVEVFDPIANRWEKCHPMTTARSRVGVAVVNGLLYAIIGGYDQLRLSTVE
 AYNPETDTWTRVGSMSKRSAMGTVVLDGQIYVCGGYDGNSSLNSVETYSPEIDKWTVVTPMSSNRSAAG
 VTVFEGRIYVSGGHDGLQIFSSVEHYNHHTATWHPAASMLNKRCRHGAASLGSKMFVCGGYDGSGLSIA
 EMYSSVADQWCLIVPMHTRRSRVSLVASCGRLYAVGGYDQSNLSSVEMYDPETDRWTFMAMPACHEGGV
 GVGCIPLLLTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC025563

ORF Size: 1290 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC025563](#), [AAH25563](#)

RefSeq Size: 4559 bp

RefSeq ORF: 1292 bp

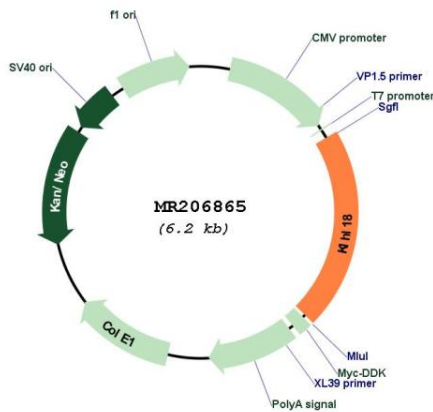
Locus ID: 270201

Cytogenetics: 9 F2

MW: 47.5 kDa

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 MR206865