

Product datasheet for **MC218672**

Klhl18 (BC025563) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Klhl18 (BC025563) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Klhl18
 Synonyms: A930041K15, MGC36415
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC025563
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTGTGCTGTGTTGTACGATGCAGCCAACAGCTTCATCCACCAGCACTTTGTAGAGGTGTCTCTGT
 CCGAAGAGTTCCTGGCCCTGCCCTTGAAGACGTGCTTGAGCTGGTGTCCCGGGATGAGCTGAATGTGAA
 GTCAGAGGAGCAGGTTTTGAAGCTGCATTGGCCTGGGTACGGTATGACCGGGAGCAGAGGGGACCATGC
 CTGCCGAGCTGTCTCAATATCCGCCTGCCTCTTTGCCGGCCCGATTCTTATCAGATCGAGTGCAGC
 AAGATGACCTGGTACGGTGTGCACAAATGCAGGGACCTGGTCGATGAAGCAAAGGACTATCATCTGAT
 GCCAGAGCGCCGGCCACCTGCCAGCTTTCAGGACTCGGCCCGATGCTGCACGTCCATCGCTGGGCTC
 ATCTACGCTGTGGGGGCTCAACTCAGCAGCAAATTTTATGCAGGTGATTCCTGAATGTGGTGGAA
 GTTCGACCCTATCGCCAATCGCTGGGAAAAGTGCATCCATGACAACAGCCGAAGCCGTGTGGGTGT
 GGCTGTGGTGAACGGGCTCCTCTATGCTATCGGGGATATGATGGTCAGTTGCGGCTGAGCACCGTGGAG
 GCCTACAATCCTGAGACGGACACATGGACCCGAGTGGGAGCATGAATAGCAAGCGAAGTGCATGGGA
 CAGTCGTGCTGGATGGACAGATCTACGTGTGTGGAGGCTATGACGGCAACTCCTCCCTCAACTCTGTGGA
 GACCTACTCACCTGAGACGGACAAGTGGACAGTGGTACTCCGATGAGCTCAAACCGGAGTGTCTGCTGGG
 GTGACAGTCTTTGAGGGCAGGATATATGTGTGTCAGGAGGCCACGATGGCTTGCAGATCTTCAGCAGTGTGG
 AACACTACAACCACACCGCCACCTGGCACCCGGCAGCCAGCATGCTCAACAAGCGCTGCCGACACGG
 AGCCGCCCTCCCTGGGAAGCAAGATGTTTGTCTGTGGGGCTATGATGGCTCTGGCTTCTCAGTATTGCT
 GAGATGTACAGCTCTGTGGCAGACCAGTGGTGTCTCATAGTACCCATGCACACACGCCGGAGCCGGGTCT
 CCCTCGTGGCAGCTGTGGGCGCTCTATGCAGTGGGAGGTTACGATGGACAGTCAAACCTAAGCTCAGT
 GGAGATGTACGACCCAGAGACGGACCGCTGGACATTTATGGCCCCATGGCATGCCACGAGGGGGGGTT
 GGTGTGGGCTGCATCCCTCTTCTACCATCTAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	BC025563
Insert Size:	1293 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:	<ol style="list-style-type: none">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]