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Product datasheet for MC219236

Klhl18 (NM_177771) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klhl18 (NM_177771) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klhl18
Synonyms:	A930041K15; AW545966
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC219236 representing NM_177771
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGAGGACGGCGCGGAGGAGCTGGAGGACTTGGTGCATTTCTCCGTGTCGGAGTTGCCTAGTCGCG
GCTACGGCGTCATGGAGGAGATCCGGCGGCAGGGCAAGCTATGCGACGTGACGCTAAAGATTGGGGACCA
CAAGTTCAGTGCTCACCGGATCGTCTTAGCGGCCTCCATCCCGTACTTCCATGCTATGTTTACGAACGAC
ATGATGGAGTGCAAGCAGGATGAGATTGTAATGCAGGGAATGGACCCAAGTGCCCTGGAGGCTCTCATCA
ACTTTGCTTATAATGGCAACCTTGCTATCGACCAGCAGAATGTGCAGTCCCTGCTGATGGGGGCAAGCTT
CCTGCAGCTGCAGAGCATCAAAGATGCTTGCTGCACGTTCCTCCGAGAAAGGCTTCACCCCAAAAATTGC
CTGGGTGTGCGCCAGTTTGCCGAGACGATGATGTGTGCTGTGTTGTACGATGCAGCCAACAGCTTCATCC
ACCAGCACTTTGTAGAGGTGTCTCTGTCCGAAGAGTTCCTGGCCCTGCCCTTGGAAGACGTGCTTGAGCT
GGTGTCCCGGGATGAGCTGAATGTGAAGTCAGAGGAGCAGGTTTTTGAAGCTGCATTGGCCTGGGTCAGG
TATGACCGGGAGCAGAGGGGACCATGCCTGCCCGAGCTGCTGTCCAATATCCGCCTGCCTCTTTGCCGGC
CCCAGTTCTTATCAGATCGAGTGCAGCAAGATGACCTGGTACGGTGCTGTCACAAATGCAGGGACCTGGT
CGATGAAGCAAAGGACTATCATCTGATGCCAGAGCGCCGGCCCCACCTGCCAGCTTTCAGGACTCGGCCC
CGATGCTGCACGTCCATCGCTGGGCTCATCTACGCTGTGGGGGGCCTCAACTCAGCAGGTGATTCCCTGA
ATGTGGTGGAAGTGTTCGACCCTATCGCCAATCGCTGGGAAAAGTGCCATCCCATGACAACAGCCCGAAG
CCGTGTGGGTGTGGCTGTGGTGAACGGGCTCCTCTATGCTATCGGGGGATATGATGGTCAGTTGCGGCTG
AGCACCGTGGAGGCCTACAATCCTGAGACGGACACATGGACCCGAGTGGGGAGCATGAATAGCAAGCGAA
GTGCCATGGGGACAGTCGTGCTGGATGGACAGATCTACGTGTGTGGAGGCTATGACGGCAACTCCTCCCT
CAACTCTGTGGAGACCTACTCACCTGAGACGGACAAGTGGACAGTGGTGACTCCGATGAGCTCAAACCGG
AGTGCTGCTGGGGTGACAGTCTTTGAGGGCAGGATATATGTGTCAGGAGGCCACGATGGCTTGCAGATCT
TCAGCAGTGTGGAACACTACAACCACCACACGGCCACCTGGCACCCGGCAGCCAGCATGCTCAACAAGCG
CTGCCGACACGGAGCCGCCTCCCTGGGAAGCAAGATGTTTGTCTGTGGGGGCTATGATGGCTCTGGCTTC
CTCAGTATTGCTGAGATGTACAGCTCTGTGGCAGACCAGTGGTGTCTCATAGTACCCATGCACACACGCC
GGAGCCGGGTCTCCCTCGTGGCCAGCTGTGGGCGCCTCTATGCAGTGGGAGGTTACGATGGACAGTCAAA
CCTAAGCTCAGTGGAGATGTACGACCCAGAGACGGACCGCTGGACATTTATGGCCCCCATGGCATGCCAC
GAGGGGGGGGTTGGTGTGGGCTGCATCCCTCTTCTCACCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177771

Insert Size: 1725 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_177771.5, NP_808439.2
RefSeq Size:	4573 bp
RefSeq ORF:	1725 bp
Locus ID:	270201
UniProt ID:	E9Q4F2
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]