

Product datasheet for **MR215866**

Klhdc8b (NM_030075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klhdc8b (NM_030075) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klhdc8b
Synonyms:	4931406O17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215866 representing NM_030075 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAGGAGGTGGTCGGGCCTTTGCTTGGCAGGTGTTCCCCCAATGCCGACTTGCCGGGTATATG
GTACAGTGGCACACCAGGACGGACACCTGCTGGTGTGGGGGGCTGTGGCCGGGCTGGGTTACCTCTGGA
TACTGCTGAGACTCTGGACATGGGCTCACACACATGGCTAGCACTAGCACCCCTGCCACTGCCCGGGCT
GGTGCCGCTGCTGTGGTCTGGTAAGCAGGTGCTAGTGGTAGGCGCGTGGACGAAGTCCAAGCCAG
TAGCTGCTGTGGAGGCCCTCTTGCTGACGAAGCCGCTGGGAGCGCCGGGCTACCTCCCTCAAGCGGC
CATGGGTGTTGCGACTGTGGAGAGAGATGGTATGGTGTATGCTCTGGGGGAATGGTCCCTGACACGGCC
CCCCAGGCCAGGTAAGTATATGAGCCCCGCCGGGACTGCTGGCTTTCGCTACCTCCATGCCACAC
CCTGCTATGGGGCCTCCACCTTCTGCACGGGAACAAGATCTATGTCTGGGAGGCCGCCAGGGCAAGCT
CCCAGTACTGCTTTTGAAGCTTTTGTCTGGAGACCCGTACATGGACCCGACACCAAGCTGCCAGT
CGCAGAGCTTTTGGCTGGCTGTGCTATGGCCGAAGGAGTGTCTTAGCCTGGGTGGCCTGCAGCAGCCTG
GGCCCCACAATTTCTACTCCCGCCGCACTTTGTCAACTGTGGAGATGTTTACCTGGAGCATGGCTC
CTGGACTAAGCTGCCTCGTAGCCTGCGGATGAGGATAAAGAGGGCTGACTTTGTGGTTGGCTCCCTTGG
GGCAACATTGTGGCTATTGGGGCCTTGGGAACCAGCCATGCCCTTGGCCTCCGTGGAGAGCTTCAGTC
TTGCACGGAGACGCTGGGAGGTGCTGCCTGCCATGCCTACGGCCCGATGCTCCTGCTCCAGCCTCCAGGC
TGGGCCACGACTGTTTGTATTGGGGGTGTGGCTCAGGGCCCAAGTCAAGCGGTGGAAGCACTGTGTCTA
CGGGATGGAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215866 representing NM_030075
Red=Cloning site Green=Tags(s)

MAAGGGRAFAWQVFPMPPTCRVYGTVAHQDGHLLVLGGCGRAGLPLDTAETLDMGSHTWLALAPLPTARA
 GAAAVVLGKQVLVGGVDEVQSPVAAVEAFLADEGRWERRATLPQAAMGVATVERDGMVYALGGMGPDTA
 PQAQVLVYEPRRDCWLSLPSMPTPCYGASTFLHGNKIYVLGGRQGKLPVTAFAFDLETRTWTRHPSLPS
 RRAFAGCAMAEGSVFSLGGLQQPGPHNFYSRPHFVNTVEMFDLEHGSWTKLPRSLRMRDKRADFVVGSLG
 GNIVAIGLGNQPCPLASVESFSLARRRWEVLPAMPPTARCSCSSSLQAGPRLFVIGGVAQGPSQAVEALCL
 RDGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9079_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_030075

ORF Size: 1062 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_030075.2](#), [NP_084351.1](#)

RefSeq Size: 2953 bp

RefSeq ORF: 1065 bp

Locus ID: 78267

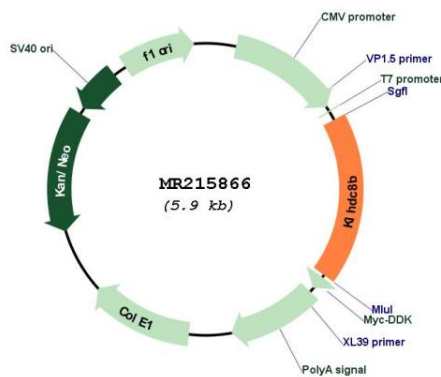
UniProt ID: [Q9D2D9](#)

Cytogenetics: 9 F2

MW: 37.6 kDa

Gene Summary: Involved in pinching off the separated nuclei at the cleavage furrow and in cytokinesis. Required for mitotic integrity and maintenance of chromosomal stability. Protects cells against mitotic errors, centrosomal amplification, micronucleus formation and aneuploidy. Plays a key role of midbody function involving abscission of the daughter cells during cytokinesis and appropriate chromosomal and nuclear segregation into the daughter cells. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215866