

## Product datasheet for **MR209345**

### **KIhl9 (NM\_172871) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIhl9 (NM_172871) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIhl9
Synonyms:	8030469P05; C530050O22Rik; ENSMUSG00000070923; mKIAA1354
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209345 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGGTGTCTCTGGGTAAACGGCGACATGGGCGTCTCTGCCACCTGCAGCCTTGAAGTCTGGAAC  
 CGCGGTTTTTACCAGCAACACGCACAGTTCGGTTGATTGCAAGGCTTTGATCAGCTCAGAATAGAGGG  
 CCTACTTTGTGACGTGACGCTGGTACTGGCGATGGAGAGGAAATCTCCCGTTTCATAGAGCCATGATG  
 GCGTCTGCCAGTGATTATTTCAAGGCCATGTTCACTGGAGGAATGAAAGAGAAAGATTTGATGTGCATCA  
 AGCTTCATGGGGTGAACAAAGTTGGTCTGAAGAAAATCATTGATTTTATTATACTGCAAACTGTCTCT  
 TAATATGGACAATCTTCAGGACTCTTGAAGCTGCCAGCTTTCTACAGATCTTGCCGGTTTTGGATTTT  
 TGTAAGTATTTCTATATCAGGCGTCTCTTTGGATAACTGTGTGGAGGTTGGCCGGATTGCTAACACCT  
 ACAATCTTATAGAAGTGATAAAACGTAATAATTTTCATCCTGAAGAACTTTCTCGCTTGTGAATAC  
 TGGGGAGTTTCTGAAACTCCCCTTTGAACGGCTTGCCTTTGTGCTTTCCAGCAATAGTCTCAAGCACTGT  
 TCGGAACTTGAGCTCTTCAAGGCAGCCTGCCGCTGGCTGAGGCTGGAAGACCCTCGGATGGACTATGCCG  
 CAAAATTAATGAAGAATATTCGCTTTCCACTGATGACACCACAGGATCTCATCAACTATGTGCAGACAGT  
 AGATTTTCATGAGAACAGACAATACCTGTGTGAATTTACTTTTGGAAAGCAAGCAATTACCAATGATGCCG  
 TATATGCAGCCGGTGTGACGTCGGACAGAAGCTGCCATTCGATCTGATTCTACTCATTGGTTACCTTAG  
 GAGGAGTTTTGAGACAACAGCTAGTTGTGAGTAAAGAGTTACGAATGTACGACGAAAGGGCGCAGGAGTG  
 GAAGTCGTTAGCGCCATGGATGCTCCTCGATACCAGCATGGCATTGCTGTTATTGGAAATTTCTTTAT  
 GTAGTTGGTGGCCAGAGTAATTATGATACAAAAGGAAAAACGGCTGTTGATACAGTTTTTCAGATTTGATC  
 CTCGTTATAATAAGTGGATGCAAGTGGCATCTTAAACGAAAAGCGCACATTTCTTCACCTGAGTGCCCT  
 CAAAGGACATTTATATGCAGTTGGTGGGCGCAGTGCAGCTGGTGAAGTGGCCACAGTAGAATGTTACAAC  
 CCAAGAATGAATGAATGGAGCTACGTTGCAAGATGAGTGAACCCCACTATGGCCATGCTGGAACAGTAT  
 ATGGGGTTTAAATGTATATTTCCGGAGGAATCACTCATGACACTTTCCAAAATGAGCTCATGTGTTTTGA  
 CCCAGATACAGACAAAATGGACACAGAAGGCTCCTATGACTACAGTCCGAGGTCTGCATTGCATGTGTACA  
 GTTGGAGACAAGCTGTATGTCATCGGTGGCAACCACTTCAGAGGAACAAGTATTATGATGATGCTCTAA  
 GCTGCGAATACTATTCGCCAATCTTGACCAGTGGACCAATGCTGCTATGCTGAGAGGTCAGAGTGA  
 TGTTGGAGTTGCAGTCTTTGAAAACAAAATCTATGTTGTTGGTGGATATCTTGGAAATACCGGTGCATG  
 GTAGAAAATGTCCAGAAATATGACCCAGAAAAGACGAGTGGCATAAAGTTTTTGATCTTCTGAGTCGC  
 TGGGTGGCATTCCGGCTTGCAGTCTCACAGTTTTTCCACCTGAAGAAAACCTGGGTACCTTCTAGAGA  
 ATCACCTCTTTCAGCACCTTCAGATCATTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

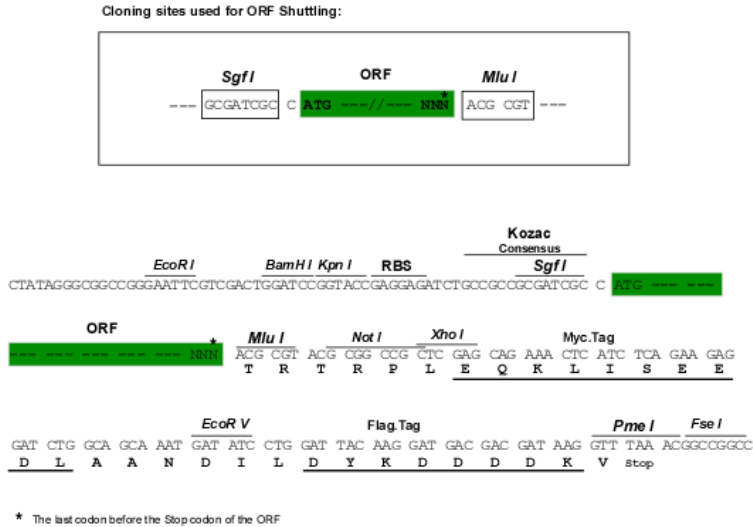
>MR209345 protein sequence  
 Red=Cloning site Green=Tags(s)

MKVSLLGNGDMGVS AHLQPKSGTTRFFTSNTHSSVVLQGFQDLRIEGLLCDVTLVPGDGEEIFPVHRAMM  
 ASASDYFKAMFTGGMKEKDL MCIKLGHNKVLKIIDFIYAKLSL NMDNLQDTLEAASFLQILPVLDF  
 CKVFLISGVSLDNCVEVGRIANTYNLIEVDKYVNNF ILKNFPALLNTGEFLKLPFERLAFVLSNSLKH  
 SELELFKAACRWRLEDPRMDYAAKLMKNIRFPLMTPQDLIN YVQTVDFMRTDNTCVNLLLEASNYQMMP  
 YMQPVMQSDRTAIRSDSTHLVTLGGVLRQQLVVSKELRMYDERAQEWKSLAPMDAPRYQHGI AVIGNFLY  
 VVGQSNYDTKGKTAVDVFVFRFDPYRNKWMQV ASLNEKRTFFHLSALKGHLYAVGGRSAAGELATVECYN  
 PRMNEWSYVAKMSEPHYGHAGTYVYGLMYISGGITHDTFQNELMCFDPDTPDKWTQKAPMTTVRGLHMC  
 T VGDKLYVIGGNHFRGTSYDDVLSCEYYSP TLDQWTPIAAMLRGQSDVGVAVFENKIYVYVGGYSWNNRCM  
 VEIVQKYDPEKDEWHKVFDPESLGGIRACTLTVFPPEENPGSPSRESPLSAPSDHS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_172871

ORF Size: 1854 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\\_172871.2](#), [NP\\_766459.2](#)

RefSeq Size: 4217 bp

RefSeq ORF: 1854 bp

Locus ID: 242521

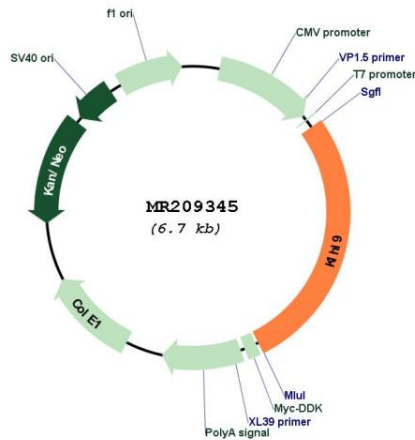
UniProt ID: [Q6ZPT1](#)

**Cytogenetics:** 4 C4

**MW:** 69.4 kDa

**Gene Summary:** Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis. The BCR(KLHL9-KLHL13) E3 ubiquitin ligase complex mediates the ubiquitination of AURKB and controls the dynamic behavior of AURKB on mitotic chromosomes and thereby coordinates faithful mitotic progression and completion of cytokinesis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209345