

Product datasheet for **MG209345**

Klh19 (NM_172871) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klh19 (NM_172871) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Klh19
Synonyms:	8030469P05; C530050O22Rik; ENSMUSG00000070923; mKIAA1354
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209345 representing NM_172871
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGTGTCTCTGGGTAAACGGCGACATGGGCGTCTCTGCCACCTGCAGCCTTGAAGTCTGGAAC
 CGCGGTTTTTACCAGCAACACGCACAGTTCGGTTGTATTGCAAGGCTTTGATCAGCTCAGAATAGAGGG
 CCTACTTTGTGACGTGACGCTGGTACCTGGCGATGGAGAGGAAATCTTCCCGTTTCATAGAGCCATGATG
 GCGTCTGCCAGTGATTATTTCAAGGCCATGTTCACTGGAGGAATGAAAGAGAAAGATTTGATGTGCATCA
 AGCTTCATGGGGTGAACAAAGTTGGTCTGAAGAAAATCATTGATTTTATTATACTGCAAACTGTCTCT
 TAATATGGACAATCTTCAGGACTCTTGAAGCTGCCAGCTTTCTACAGATCTTGCCGGTTTTGGATTTT
 TGTAAGTATTTCTATATCAGGCGTCTCTTTGGATAACTGTGTGGAGGTTGGCCGGATTGCTAACACCT
 ACAATCTTATAGAAGTGATAAAACGTAATAATTTTCATCCTGAAGAACTTTCTCGCTTGTGAATAC
 TGGGGAGTTTCTGAAACTCCCCTTTGAACGGCTTGCCTTTGTGCTTTCCAGCAATAGTCTCAAGCACTGT
 TCGGAACTTGAGCTCTTCAAGGCAGCCTGCCGCTGGCTGAGGCTGGAAGACCCTCGGATGGACTATGCCG
 CAAAATTAATGAAGAATATTCGCTTTCCACTGATGACACCACAGGATCTCATCAACTATGTGCAGACAGT
 AGATTTTCATGAGAACAGACAATACCTGTGTGAATTTACTTTTGAAGCAAGCAATTACCAATATGATGCCG
 TATATGCAGCCGGTGTGACGTCGGACAGAAGTCCATTCGATCTGATTCTACTCATTGGTTACCTTAG
 GAGGAGTTTTGAGACAACAGCTAGTTGTGAGTAAAGAGTTACGAATGTACGACGAAAGGGCGCAGGAGTG
 GAAGTCGTTAGCGCCATGGATGCTCCTCGATACCAGCATGGCATTGCTGTTATTGGAAATTTCTTTTAT
 GTAGTTGGTGGCCAGAGTAATTATGATACAAAAGGAAAAACGGCTGTTGATACAGTTTTCAGATTTGATC
 CTCGTTAATAAAGTGGATGCAGGTGGCATCTAAACGAAAAGCGCACATTTCTTCCACTGAGTGCCT
 CAAAGGACATTTATATGCAGTTGGTGGCGCAGTGCAGCTGGAAGTGGCCACAGTAGAATGTTACAAC
 CCAAGAATGAATGAATGGAGCTACGTTGCAAGATGAGTGAACCCCACTATGGCCATGCTGGAACAGTAT
 ATGGGGTTTAAATGTATATTTCCGGAGGAATCACTCATGACACTTCCAAAATGAGCTCATGTGTTTTGA
 CCCAGATACAGACAAAATGGACACAGAAGGCTCCTATGACTACAGTCCGAGGTCTGCATTGCATGTGTACA
 GTTGGAGACAAGCTGTATGTCATCGGTGGCAACCACTTCAGAGGAACAAGTATTATGATGATGCTCTAA
 GCTGCGAATACTATTCGCAACTCTTGACCAGTGGACCAATGCTGCTATGCTGAGAGGTCAGAGTGA
 TGTTGGAGTTCAGTCTTTGAAAACAAAATCTATGTTGTTGGTGGATATCTTGGAAATACCGGTGCATG
 GTAGAAAATGTCCAGAAATATGACCCAGAAAAGACGAGTGGCATAAAGTTTTTGATCTTCTGAGTCGC
 TGGGTGGCATTCCGGCTTGCAGTCTCACAGTTTTTCCACCTGAAGAAAACCTGGGTACCTTCTAGAGA
 ATCACCTCTTTCAGCACCTTCAGATCATTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209345 representing NM_172871
 Red=Cloning site Green=Tags(s)

MKVSLSGNGDMGVS AHLQPKSGTTRFFTSNTHSSVVLQGFQDLRIEGLLCDVTLVPGDGEEIFPVHRAMM
 ASASDYFKAMFTGGMKEKDLMCIKLHGKVNKVLKIIDFIYAKLSLMDNLQDTLEAASFLQILPVLDL
 CKVFLISGVSLDNCVEVGRIANTYNLIEVDKYVNNFILKNFPALLNTGEFLKLPFERLAFVLSNSLKH
 SELELFKAACRWLRLEDPRMDYAAKLMKNIRFPLMTPQDLIN YVQTVDFMRTDNTCVNLLLEASNYQMP
 YMQPVMQSDRTAIRSDSTHLVTLGGVLRQQLVVSKELRMYDERAQEWKSLAPMDAPRYQHGI AVIGNFLY
 VVGGQSNYDTKGTAVDVFVFRFDPYRNKWMQVSLNEKRTFFHL SALKGHLYAVGGRSAAGELATVECYN
 PRMNEWSYVAKMSEPHYGHAGTVYGGMLYISGGITHDTFQNELMCFDPDTPDKWTQKAPMTTVRGLHMC
 T VGDKLYIIGGNHFRGTSYDDVLSCEIYSPTLDQWPIAAMLRGQSDVGVAVFENKIYVVGYSWNNRCM
 VEIVQKYDPEKDEWHKVFDPESLGGIRACTLTVFPPEENPGSPSRESPLSAPSDHS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<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:	NM_172871.2 , NP_766459.2
RefSeq Size:	4217 bp
RefSeq ORF:	1854 bp
Locus ID:	242521
UniProt ID:	Q6ZPT1
Cytogenetics:	4 C4
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]