

Product datasheet for **RR202344**

Klh17 (NM_001012187) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klh17 (NM_001012187) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klh17
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202344 representing NM_001012187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACCTCGGGCGTGGAGAAGAGTAGCAAGAAGAAAACCGAGAAGAACTTGGCGCTCGCGAAGAAG
 CCAAGCTGCTGGCGGGTTCATGGCGTTCATGAACAACATGAGGAAGCAGAGAACATTATGTGATGTGAT
 CCTCATGGTCCAGGAAAGAAAGATACCTGCTCACCCTGTTGCTCCTGGCTGCAGCCAGTCACTTCTTTAAC
 TTAATGTTCACTAACAATGCTTGAGTCTAAGTCTTGAAGTGAAGTCAAAGATGCCGAGCCTGATA
 TTATTGAACAGCTGGTGAATTCGCTACACTGCGAGAATTTCTGTGAATAGCAACAATGTTTCAGTCTTT
 GTTAGATGCAGCAAAATCAGTACCAGATTGAGCCTGTGAAGAAAATGTGTGTTGATTTTTTAAAGAACAA
 GTTGATGCTTCAAATTGCTTGGTATAAGTGTGCTTGGGAGTGTCTGGACTGTCCCGAGCTGAAGTCTA
 CAGCCGACGACTTCATCCATCAGCACTTCACTGAAGTTTACAAAACCTGACGAATTTCTACAGCTTGACGT
 CAAGCGAGTGACACATCTTCTCAGCCAGGACACCCTGACTGTGAGAGCAGAGGATCAGGTCTACGACGCT
 GCAGTGAGGTGGTTGAAATATGACGAGCCCAATCGTCAGCCGTTTATGGTTGATATCCTTGCTAAAGTCA
 GGTTTCTCTTATATCGAAGAATTTCTAAGTAAAACAGTACAAGCTGAACCTCTTATTCAGATAATCC
 TGAATGCCTTAAATGGTGTGATCAGTGGAATGAGGTACCATCTGCTGTCTCCTGAGGATCGGGAAGAACTT
 GCAGGGGGCACAAGGCCTAGAAGAAAGAAACATGATTACCGCATAGCTCTGTTCCGAGGCTCCCAGCCAC
 AATCCTGTAGATATTTAAACCAAAGGATTACAGTTGGACAGACATTGCTGCCCTTTGAAAAACGAAG
 AGATGCAGCTTGTGTGTTTTGGGACAACGTAGTGTACATTTTGGGAGTTCTCAGCTTTCCCAATAAAG
 CGAATGGATTGCTACAATGTTGTAAGGATAGCTGGTATTCAAAACCTGGGACCTCCAACACCTCGAGACA
 GCCTTGCCTGTGCTGCAGAAGGCAAAATTTATACATCTGGAGTTTCAAGAGTGGAACTCAGCCCT
 GTATTTGTTTGGTGTATGATACCAGAAGTGAAGCTGGCACACGAAGCCAGCATGCTGACTCAGCGC
 TGCAGCCATGGGATGGTGGAGGCCAATGCCTCATCTATGTGTGGCGAAGCTTGGGAAACAATGTTT
 CTGGGAGAGTGTGAGTTCCTGTGAGGTGTATGATCCTGCCACAGAAACATGGACTGAGCTGTGTTCAAT
 GATTGAGCCAGGAAGAATCATGGGCTGGTGTGTTGTAAGGACAAGATATTTGCTGTTGGTGGTCAGAAT
 GGTTTAGGGGCTGGACAACGTGGAGTATTATGACATCAAGTAAATGAATGGAAGATGGTGTACCCGA
 TGCCGTGGAGGGCGTGACAGTGAAGTGTGACAGTGGCTCTGTCATCTATGCTCCTGGCAGGGTTTCA
 GGGTGTAGGCCGATTGGGACATCCTTGAATACAACACTGAGACAGACAAGTGGGTAGCCAACCTCCAAA
 GTCGCGCTTTCCAGTACAAGCTGTTGATTTGTGTGGTTGATACCTGCGGGCAACGAAGAGACCC
 TGGAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202344 representing NM_001012187
 Red=Cloning site Green=Tags(s)

MATSGVEKSSKKKTEKKLAAREEAKLLAGFMGVMNMRKQRTLCDVILMVQERKIPHRVLLAAASHFFN
 LMFTTNMLESKSFEVELKDAEPDIEQLVEFAYTARISVNSNNVQSLLDAANQYQIEPVKMKCVDFLKEQ
 VDASNCLGISVLAELDCPELSTADDFIHQHFTEVYKTDFELQLDVKRVTHLLSQDTLTVRAEDQVYDA
 AVRWLKYDEPNRQPFMVDILAKVRFPLISKNFLSKTVQAEPLIQDNPECLKMVISGMRYHLLSPEDREEL
 AGGTRPRRKHRYRIALFGGSQPQSCRYPNPKDYSWTDIRCPFEKRRDAACVFWDNVYVILGGSQFLPIK
 RMDCYNVKDSWYSKLGPPTPRDSLAAEAEGKIYTSGGSEVGNLSALYLFECYDTRTESWHTKPSMLTQR
 CSHGMVEANGLIYVCGGSLGNNVSGRVLSSCEVYDPATEWTWELCSMIEPRKNHGLVFVKDKIFAVGGQN
 GLGGLDNVEYYDIKLNWKMVSPMPWRGVTVKCAAVGSIYVLAGFQGVGRLGHILEYNTETDKWVANSK
 VRAFPVTSCLICVVDTCGANEETLET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

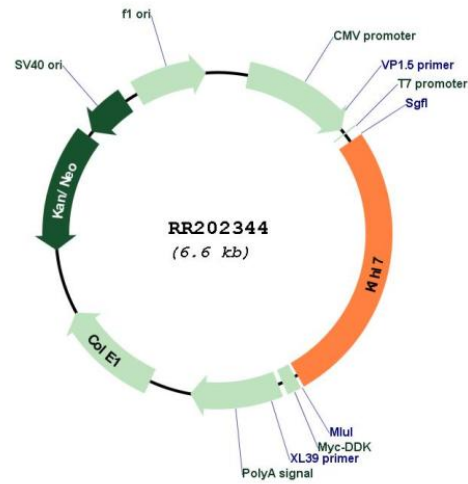
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001012187

ORF Size:	1758 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:	<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_001012187.1 , NP_001012187.1
RefSeq Size:	2878 bp
RefSeq ORF:	1761 bp
Locus ID:	362303
UniProt ID:	Q5XHZ6
Cytogenetics:	4q11
MW:	66 kDa
Gene Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex. The BCR(KLHL7) complex acts by mediating ubiquitination and subsequent degradation of substrate proteins. Probably mediates 'Lys-48'-linked ubiquitination (By similarity). [UniProtKB/Swiss-Prot Function]