

Product datasheet for **MR213950**

Klhl15 (NM_001039061) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klhl15 (NM_001039061) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klhl15
Synonyms:	6330500C13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR213950 representing NM_001039061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGGGGACGTGGAAGGATTCTGTCTCCATCCATGACACCAGTGTCTCTGCTGGTTTCAGAGCAC
 TGTATGAGGAGGATTGCTTCTCGATGTCACTCTGGTTATTGAAGACCATCAGTTCCAGGCCATAAAGC
 TCTCTTGCCACCCAGAGTGATTACTTCAAGATTATGTTACAGCAGACATGAGGGAACGAGATCAGGAC
 AAAATTCAATTTGAAAGGTCTAACAGCTACTGGTTTCAGCCACGTTCTTCAGTTTATGATTATGAACTA
 TAGAACTAAGTATGAACACTGTACATGAAATCCTTCAGGCAGCAATGTATGTTCCAGCTTATAGAAGTGGT
 GAAATTCTGCTGCTCCTTCTCTAGCCAAAATCTGCTTAGAAAATTGTGCGGAAATTATGAGACTGTTA
 GATGATTTCCGGTGTAAACATCGAGGGAGTCAGGGAGAAGCTGGATGCCTTCTGCTAGACAACTTCGTGC
 CACTAATGTCCAGGCCTGACTTTTTGTCTTATCTGAGCTTCGAGAAGCTCATGTCTTATTTGGATAATGA
 CCATCTGAGCAGTTTTCCAGAAATTGAGCTGTACGAGGCTGTGCAGTCTTGGCTGCGACATGATAGACGA
 CCGTGGAGACACACAGATACCATCATTCAAGACATCAGGTTTTGTCTGATGACTCCATCCAGCGTCTTTG
 AGAAGGTTAAAACATCAGAATTTATAGATACTCCCGACAGCTCCGATATGAAGTTGACCAAGCATTGAA
 TTACTTCCAAAATGTTCCACGACAGCCCTTGTGGACATGAAATCAAGCCGATTCGTTCTGCCAAAACC
 CAAACTACAGTATTCGAGGAATGATTGGACATAGCATGGTTAATAGCAAAAATCTTCTGTTAAAAAAAC
 CAAGAGTCTGGTGGAACTGGAGGGCCCCAAGTACCTTAAGGCCAGACTGCCTTGCTATTGTCAATAA
 TTTTGTATTCTGCTAGGTGGAGAAGAACTGGCCCTGATGGTGAATCCATGCCTTCCGAAAGTGTTC
 AGGTATGATCCAAGACAAAATCTTGGCTGCGTATGCCAGACATGTCTGTACCCCGTTCAAGATTTGCTG
 TTGGTGTATTGGAAAGTTTATTTATGCTGTAGCAGGCAGAACAAGAGATGAAACTTTCTACTCAACAGA
 AAGATATGATATCACTAATGATAAATGGGAATTTGTAGATCCTTATCCAGTTAACAATAATGGACATGAG
 GGGACAGTGCTCAATAACAAGTTGTTTACTGAGGGAATTACTTCATCTTCCACATCTAAACAGTGT
 GTGTGTTTGACCCAGTAAAGAAGGGACTATAGAGCAGCGGACCAGGAGAACGCAAGTAGTCACCAACTG
 CTGGGAGAATAAGAGCAAGATGAATTATGCCAGATGTTTTACAAGATGATCTCTTACAACGGCAAGCTT
 TATGTCTTTGGTGGTGTCTGTGTGATCTTGAGGCCTCTTTGAATCTCAGGGCTGCCCTCCACAGAGG
 TGTACAACCCAGATACCGATCAGTGGACCATCTTGGCCTCCATGCCAATTGGTAGAAGTGGTCATGGTGT
 GACTGTGCTGGACAAACAGATAATGGTCTTGGAGGCCTTTGTTATAATGGTCATTACAGTGATTCCATT
 CTCACCTTTGACCCAGATGAAAATAAGTGGAAAGAAGATGAGTACCCTCGGATGCCCTGCAAGCTGGATG
 GTTACAGGTGTGCAACCTACATTTCCGGACTATGACTGGATGAGGTTAGGCGTTGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR213950 representing NM_001039061
 Red=Cloning site Green=Tags(s)

MAGDVEGFCSSIHDTSVSAGFRALYEEGLLLDVTLVIEDHQFQAHKALLATQSDYFRIMFTADMRRERDQD
 KIHLLKGLTATGFSHVLQFMYYGTIELSMNTVHEILQAAMYVQLIEVVKFCCSFLAKICLENCAEIMRLL
 DDFGVNIEGVREKLDAFLLDNFVPLMSRPDLSYLSFEKLMSYLDNDHLSRFPEIELYEAQSWLRHRRR
 RWRHTDTIIQNIQIRFCLMTPSSVFEKVKTSEFYRYSRQLRYEVDQALNYFQNVHQQLPDDMKSSRIRSAKP
 QTTVFRGMIGHSMVNSKILLKPRVWWELEGPVPLRPDCLAIVNNFVFLGGEELGPDGEFHASSKVF
 RYDPRQNSWLRMADMSVPRSEFAVGVIGKFIYAVAGRTRDETFFYSTERYDITNDKWEFVDPYPVNYGHE
 GTVLNNKLFITGGITSSSTSKQVCVFDPSKEGTIEQRTRRTQVVTNCWENKSKMNYARCFHKMISYNGKL
 YVFGGVCVILRASFSQGPCSTEYVNPDTDQWTLASMPIGRSRGHVTVLQKQIMVLGGLCYNGHYSDSI
 LTFDPDENKWEDEYPRMPCKLDGLQVCNLHFPDYVLDDEVRRCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9043_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039061

ORF Size: 1812 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_001039061.1](#), [NP_001034150.1](#)

RefSeq Size: 2363 bp

RefSeq ORF: 1815 bp

Locus ID: 236904

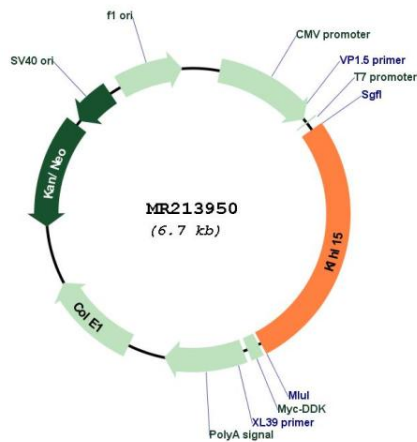
UniProt ID: [A2AAX3](#)

Cytogenetics: X C3

MW: 70.2 kDa

Gene Summary: Substrate-specific adapter for CUL3 E3 ubiquitin-protein ligase complex. Acts as an adapter for CUL3 to target the serine/threonine-protein phosphatase 2A (PP2A) subunit PPP2R5B for ubiquitination and subsequent proteasomal degradation, thus promoting exchange with other regulatory subunits and regulating PP2A holoenzyme composition. Acts as an adapter for CUL3 to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation. Through the regulation of RBBP8/CtIP protein turnover, plays a key role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR213950