

Product datasheet for **MC226484**

Klhl15 (NM_001039059) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klhl15 (NM_001039059) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klhl15
Synonyms:	6330500C13Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226484 representing NM_001039059 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGGGGACGTGGAAGGATTCTGTTCTCCATCCATGACACCAGTGTCTCTGCTGGGTTCCAGAGCAC
TGATGAGGAGGGATTGCTTCTCGATGTCCTGTTATTGAAGACCATCAGTTCAGGCCCATAAAGC
TCTTTGGCCACCCAGAGTGATTACTTCAAGATTATGTTACAGCAGACATGAGGGAACGAGATCAGGAC
AAAATTCATTTGAAAGGTCTAACAGCTACTGGTTTCAGCCACGTTCTCAGTTTATGTATTATGGAACCTA
TAGAACTAAGTATGAACACTGTACATGAAATCCTTCAGGCAGCAATGTATGTTCACTTATAGAAGTGGT
GAAATCTGCTGCTCCTTTCTCTTAGCCAAAATCTGCTTAGAAAATTGTGCGGAAATATGAGACTGTTA
GATGATTCGGTGTAAACATCGAGGGAGTCAGGGAGAAGCTGGATGCCTTCTGCTAGACAACTTCGTGC
CACTAATGTCCAGGCCTGACTTTTTGTCTTATCTGAGCTTCGAGAAGCTCATGCTTATTTGGATAATGA
CCATCTGAGCAGGTTTCCAGAAATTGAGCTGTACGAGGCTGTGCAGTCTTGGCTGCGACATGATAGACGA
CGGTGGAGACACAGATACCATCATTCAAGACATCAGGTTTTGTCTGATGACTCCATCCAGCGTCTTTG
AGAAGACATCG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001039059
Insert Size:	714 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001039059.1</u> , <u>NP_001034148.1</u>
RefSeq Size:	3137 bp
RefSeq ORF:	714 bp
Locus ID:	236904
UniProt ID:	<u>A2AAX3</u>
Cytogenetics:	X C3
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]