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# Product datasheet for MR225419

## Klhl3 (NM_001195075) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Klhl3 (NM_001195075) Mouse Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Klhl3 |
| **Synonyms:** | 7530408C15Rik; AI430941; EG627648 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>MR225419 representing NM_001195075
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTACTATATCATGATCCCATGCCAGGTTGGAAAGCGTGGCCATAGGCTCTGGACTTGGACGAGAG
TTGCAGCACGGATCAACGTGGCCTTATGCTTCGTAGGAGGAGAAAGTGCCTGGTTCCTGCTAGTGTCCAG
GCTGACCTCCGCATCAGGGGGAAAGGGTTTGAGTGTCAAGCCGAGCCCTCAGCCCACGGCGCAGGCTGAG
GATGAAGAGAAGAACCGGAGGACTGTAACCGTCAACGCTGCCCACATGGGGAAGGCCTTCAAGGTCATGA
ATGAGCTGCGAAGTAAGCGGCTGCTGTGTGACGTGATGATCGTGGCTGAAGACGTGGAAGTAGAAGCTCA
CCGTGTGGTCCTGGCAGCCTGCAGCCCTTACTTCTGTGCAATGTTCACAGGTGACATGTCTGAGAGCAAG
GCCAAGAAGATCGAAATCAAGGACGTGGACGGACAGACTCTCAGCAAGCTCATCGACTACATCTACACCG
CAGAGATCGAGGTGACAGAAGAGAACGTGCAGGTGCTGCTTCCAGCAGCCAGCTTGCTGCAGCTCATGGA
TGTGCGACAGAACTGCTGTGATTTCCTGCAGTCTCAGCTGCATCCCACCAACTGCCTGGGCATCCGAGCT
TTTGCAGATGTGCACACGTGCACCGACCTCCTGCAGCAGGCGAACGCCTATGCAGAGCAGCACTTCCCAG
AGGTGATGCTGGGGGAAGAGTTTCTGAGCTTAAGTCTGGACCAGGTGTGCAGCTTGATATCCAGCGACAA
GCTGACGGTCTCCTCAGAAGAGAAGGTGTTCGAAGCTGTGATTTCATGGATCAATTACGAGAAGGAGACT
CGCCTAGACCACATGGCAAAGCTGATGGAGCACGTCCGGCTCCCTCTGTTACCGAGAGATTACCTGGTCC
AGACAGTTGAGGAGGAAGCTTTGATCAAGAACAACAACACCTGTAAGGACTTCCTCATCGAAGCCATGAA
GTACCACCTCCTGCCTCTTGACCAGAGGCTCTTGATCAAGAACCCCAGGACCAAGCCCCGGACTCCAGTC
AGCCTGCCCAAGGTCATGATTGTGGTTGGTGGCCAGGCACCCAAGGCGATCCGCAGCGTGGAGTGCTATG
ACTTCGAGGAGGGCCGCTGGGACCAGATAGCCGAGCTTCCCTCCAGAAGATGCAGAGCAGGTGTGGTGTT
CATGGCAGGCCACGTGTATGCCGTGGGTGGCTTTAACGGCTCTCTGCGGGTCCGGACAGTGGATGTGTAC
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TGCTCAATGACCTTCTCTACGCAGTCGGAGGCTTCGACGGCAGTACCGGCCTGGCATCCGTAGAAGCCTA
CAGCTACAAGACCAATGAGTGGTTCTTCGTGGCCCCTATGAACACACGGCGGAGCAGCGTGGGAGTGGGT
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AGCAGTACAACCCAGCCACCAACGAGTGGATATACGTGGCAGACATGAGCACCCGACGCAGTGGCGCTGG
GGTTGGGGTGCTCAGCGGACAGCTGTATGCCACCGGGGGACATGACGGACCCTTGGTGAGGAAGAGTGTT
GAAGTTTACGATCCTGGGACAAACACTTGGAAGCAGGTGGCAGACATGAACATGTGCCGGCGCAACGCAG
GGGTCTGTGCGGTGAATGGGCTACTGTACGTAGTTGGAGGGGACGACGGATCGTGCAATCTGGCTTCAGT
AGAGTACTACAACCCAGTCACAGACAAGTGGACACTGCTGCCCACCAACATGAGCACTGGGAGGAGCTAT
GCAGGTGTTGCTGTGATTCACAAATCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225419 representing NM_001195075
Red=Cloning site Green=Tags(s)

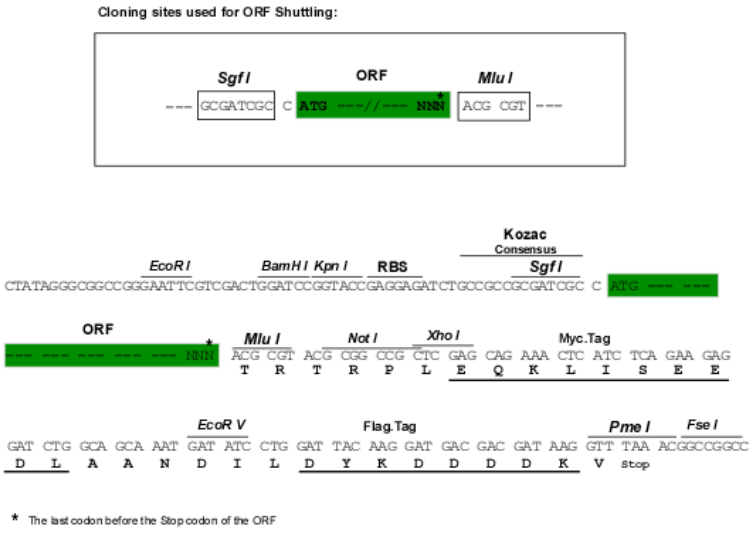
MAYYIMIPCQVGKRGHRLWTWTRVAARINVALCFVGGESAWFLLVSRLTSASGGKGLSVKPSPQPTAQAE
DEEKNRRTVTVNAAHMGKAFKVMNELRSKRLLCDVMIVAEDVEVEAHRVVLAACSPYFCAMFTGDMSESK
AKKIEIKDVDGQTLSKLIDYIYTAEIEVTEENVQVLLPAASLLQLMDVRQNCCDFLQSQLHPTNCLGIRA
FADVHTCTDLLQQANAYAEQHFPEVMLGEEFLSLSLDQVCSLISSDKLTVSSEEKVFEAVISWINYEKET
RLDHMAKLMEHVRLPLLPRDYLVQTVEEEALIKNNNTCKDFLIEAMKYHLLPLDQRLLIKNPRTKPRTPV
SLPKVMIVVGGQAPKAIRSVECYDFEEGRWDQIAELPSRRCRAGVVFMAGHVYAVGGFNGSLRVRTVDVY
DGVKDQWTSIASMQERRSTLGAAVLNDLLYAVGGFDGSTGLASVEAYSYKTNEWFFVAPMNTRRSSVGVG
VVEGKLYAVGGYDGASRQCLSTVEQYNPATNEWIYVADMSTRRSGAGVGVLSGQLYATGGHDGPLVRKSV
EVYDPGTNTWKQVADMNMCRRNAGVCAVNGLLYVVGGDDGSCNLASVEYYNPVTDKWTLLPTNMSTGRSY
AGVAVIHKSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/ja1363_b11.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

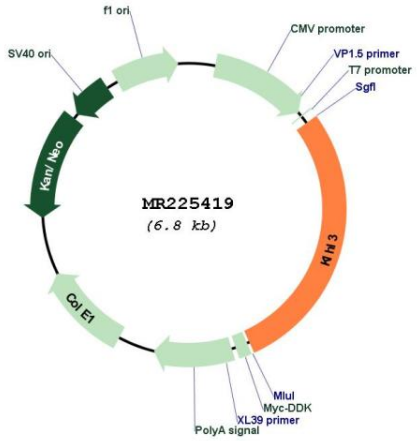



**ACCN:** NM_001195075

**ORF Size:** 1920 bp

| | |
|---|---|
| **OTI Disclaimer:** | Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.<br><br>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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001195075.1, NP_001182004.1 |
| **RefSeq Size:** | 2142 bp |
| **RefSeq ORF:** | 1923 bp |
| **Locus ID:** | 100503085 |
| **UniProt ID:** | E0CZ16 |
| **Cytogenetics:** | 13 B1 |
| **MW:** | 71.2 kDa |
| **Gene Summary:** | Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a regulator of ion transport in the distal nephron (PubMed:25831548, PubMed:28052936). The BCR(KLHL3) complex acts by mediating ubiquitination of WNK4, an inhibitor of potassium channel KCNJ1, leading to WNK4 degradation (By similarity). The BCR(KLHL3) complex also mediates ubiquitination and degradation of CLDN8, a tight-junction protein required for paracellular chloride transport in the kidney (PubMed:25831548).[UniProtKB/Swiss-Prot Function] |

## Product images:




Circular map for MR225419