

Product datasheet for **RC219838**

KLHL4 (NM_019117) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL4 (NM_019117) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHL4
Synonyms:	DKELCHL; KHL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219838 representing NM_019117
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGTGTCTGGCAAGAAAGAGTTTGTATGTGAAACAGATCCTAAGGCTACGCTGGAGGTGGTTTAGTC
 ATCCTTTTCAAGGTTCCACCAACTGGAAGCTGTCTTACGAGGAAGGATATGAGCATAGAGGGACCCC
 GGTTCCAGGGCAGGTTGAAGAGCCACTCTCGGGACAGAAACGACTGAAGAAAAGCAACAGTCCTGTCCAC
 CACAATACTGGCACCAGTGCCAGGACCGCCCTGCCATCAGAGAGCCGTTCAGAATTTGCAGCAAC
 ATAATCTGATAGTACATTTTCAAGCAAATGAAGATACTCCTAAATCAGTTCAGAGAAGAATTTATTCAA
 AGAAGCTTGTGAGAAACGCGCACAAGATTTGGAGATGATGGCTGATGACAATATAGAAGATTCTACAGCA
 AGATTAGATACACAACACTCTGAAGACATGAATGCCACCAGATCTGAAGAGCAGTTCATGTTATAAAC
 ACGCAGAGCAAATCTTCGTAATAATGGAGAATACTTGAAGAGAAACAATACTATGTGATGTCTACTGAT
 TGCAGGACACCTCCGCATCCCAGCCATAGGTTGGTTCTCAGCGCAGTGTCTGATTATTTTCTGCAATG
 TTTACTAATGATGTGCTTGAAGCAAACAAGAAGAGGTCAGGATGGAAGGAGTAGATCCAATGCACTAA
 ATTCCTTGGTGCAGTATGCTTACACAGGAGTCTGCAATTGAAAGAAGATACCATTGAAAGTTTGTCTGGC
 TGCAGCTTGTCTTCTGCAGCTGACTCAGGTCATTGATGTTTGTCTCAATTTTCTCATAAAGCAGCTCCAT
 CCTTCAAATGCTTAGGGATTGATCATTGGAGATGCCAAGGCTGTACAGAATCTGAAAGTGGCAC
 ACAAATACACTATGGAACACTTCATTGAGGTAATAAAAAACCAAGAATTCCTCTGCTTCCAGCTAATGA
 AATTTCAAATCTCTGTGCAGTATGACATTAATGTGCCTGATGAAGAGACCATTTTTTATGCTCTAATG
 CAGTGGTGGGCATGATGTGCAGAAATAGGCAAGGAGAACTGGGGATGCTGCTTTCTACATCAGACTGC
 CATTACTCCACCACAGTACTGGCAGATCTTGAACCAGTTCATGTTTACTGGTGTGATGCTTGAAGTCA
 GAAGCTCCTGATGGAAGCTATGAAGTATCATCTTTTGCCTGAGAGAAGATCCATGATGCAAAGCCCTCGG
 ACAAGCCTAGAAAATCAACTGTGGGGCACTTTATGCTGTAGGAGGCATGGATGCTATGAAAGGTA
 CTACTATTGAAAAATATGACCTCAGGACCAACAGTTGGCTACATATTGGCACCATGAATGGCCGTAGGCT
 TCAATTTGGAGTCGCAGTTATTGATAATAAGCTCTATGCTGTAGGAGGAAAGAGACGGTTAAAACTTTG
 AATACAGTGAATGTTTTAATCCAGTTGGCAAAATCTGGACTGTGATGCCTCCCATGTCAACACATCGGC
 ACGGCTTAGGTGTAGCCACTCTGAAGGACCAATGTATGCTGTAGGTGGTATGATGGATGGAGCTATCT
 AAATACTGTAGAAAGATGGGACCCTGAGGGACGACAGTGAATTACGTAGCCAGTATGTCAACTCCTAGA
 AGCACAGTTGGTGTGTCATTAAACAACAAATTATATGCTATTGGTGGACGTGATGGAAGTTCCTGCC
 TCAAATCAATGGAATACTTTGACCCACACACTAACAAGTGGAGTTTGTGTGCTCCAATGTCCAAAAGACG
 TGGAGGTGTGGGAGTTGCCACATACAATGGATTCTTATATGTTGTAGGGGGCATGATGCCCTGCTTCC
 AACCATTGCTCCAGGCTTCTGACTGTGTGGAACGGTATGATCCAAAAGGTGATTCATGGTCAACTGTGG
 CACCTCTGAGTGTCTCGAGATGCTGTTGCTGTGTGCCCTCTTGGAGACAACTCTACGTGGTTGGAGG
 ATATGACGGACATACTTATTTGAACACAGTTGAGTCATATGATGCACAGAGAAATGAATGGAAAGAGGAA
 GTTCTGTAAACATTGGAAGAGCTGGTGCATGTGTTGTAGTGGTGAAGCTACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219838 representing NM_019117
Red=Cloning site Green=Tags(s)

MSVSGKKEFDVKQILRLRWRWFSHPFQGSTNTGSCLQQEGYEHRGTPVQGRLLKSHSRDRNGLKKSNSP
 HNILAPVPGPAPAHQRAVQNLQQHNLIVHFQANEDTPKSVPEKNLFKEACEKRAQDLEMMADDNIEDSTA
 RLDTQHSSEDMNATRSEEQFHVINHAEQTLRKMENYLKEKQLCDVLLIAGHLRIPAHRLVLSAVSDYFAAM
 FTNDVLEAKQEEVMEGVDPNALNSLVQYAYTGVLLQKEDTIESLLAAACLQLTQVIDVCSNFLIKQLH
 PSNCLGIRSFQDAQGCETELNVAHKYTMHFIEVIKNQEFLLLPAEISKLLCSDDINVPDEETIFHALM
 QWVGHQVNRQGELGMLLSYIRLPLPPQLADLETSSMFTGDLECQKLLMEAMKYHLLPERRSMMQSPR
 TKPRKSTVGALYAVGMDAMKGTTTIEKYDLRTNSWLHIGTMNGRRLQFGVAVIDNKLYVVGGRDGLKTL
 NTVECFNPVGIWVMPMSTHRHGLGVATLEGPMYAVGGHDGWSYLNTERWDPEGRQWNYVASMSTPR
 STVGVVALNNKLYAIGGRDGSSCLKSMEYFDPHTNKWSLCAPMSKRRGGVGVATYNGFLYVVGHDAPAS
 NHC SRLSDCVERYDPKGDWSSTVAPLSVPRDAVAVCPLGDKLYVVGVDGHTYLNTERVSYDAQRNEWKEE
 VPVNIGRAGACVVVVKLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_019117

ORF Size: 2154 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_019117.5](#)

RefSeq Size: 5880 bp

RefSeq ORF: 2157 bp

Locus ID: 56062

UniProt ID: [Q9C0H6](#)

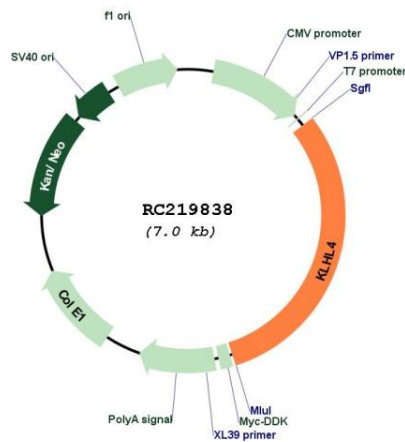
Cytogenetics: Xq21.31

Domains: BTB, Kelch

MW: 80.2 kDa

Gene Summary: This gene encodes a member of the kelch family of proteins, which are characterized by kelch repeat motifs and a POZ/BTB protein-binding domain. It is thought that kelch repeats are actin binding domains. However, the specific function of this protein has not been determined. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC219838