

Product datasheet for **SC314532**

KLHL4 (NM_057162) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	KLHL4
Synonyms:	DKELCHL; KHL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>SC314532 representing NM_057162.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAGTGTCTGGCAAGAAAGAGTTTGATGTGAACAGATCCTAAGGCTACGCTGGAGGTGGTTTATG
CATCCTTTTCAAGGTTCCACCAACTGGAAGCTGTCTTCAGCAGGAAGGATATGAGCATAGAGGGACC
CCGTTTCAGGGCAGGTTGAAGAGCCACTCTCGGGACAGAAACGGACTGAAGAAAAGCAACAGTCCTGTC
CACCACAATATACTGGCACCAGTGCCAGGACCGGCCCTGCCCATCAGAGAGCCGTTTCAAGATTTGCAG
CAACATAATCTGATAGTACATTTTCAAGCAATGAAGATACTCCTAAATCAGTTCAGAGAAGAATTTA
TTCAAAGAAGCTTGTGAGAAACGCGCACAGATTTGGAGATGATGGCTGATGACAATATAGAAGATTCT
ACAGCAAGATTAGATACACAACACTCTGAAGACATGAATGCCACCAGATCTGAAGAGCAGTTCCATGTT
ATAAACACGACAGAGCAAACTCTTCGTAATGAGAACTACTTGAAGAGAAACAACATATGTGATGTG
CTACTGATTGCAGGACACCTCCGATCCAGCCCATAGGTTGGTCTCAGCGCAGTGTCTGATTATTTT
GCTGCAATGTTTACTAATGATGTGCTTGAAGCCAAACAAGAAGAGGTGAGGATGGAAGGAGTAGATCCA
AATGCACTAAATCCTTGGTGCAGTATGCTTACACAGGAGTCTGCAATTGAAAGAAGATACCATTGAA
AGTTTGTGCTGCGTGCAGCTTGTCTTGCAGCTGACTCAGGTCATTGATGTTTGTCTCAATTTTCTCATA
AAGCAGCTCCATCCTTCAAACCTGCTTAGGGATTTCGATCATTGGAGATGCCAAGGCTGTACAGAACTT
CTGAACGTGGCACAACAATACACTATGGAACACTTCATTGAGGTAATAAAAAACCAAGAATTCCTCCTG
CTTCCAGCTAATGAAATTTCAAACCTTCTGTGCAGTGTGACATTAAATGTGCCTGATGAAGAGACCATT
TTTCATGCTCTAATGCAGTGGGTGGGCATGATGTGAGAATAGGCAAGGAGAACTGGGGATGCTGCTT
TCTTACATCAGACTGCCATTACTCCACCACAGTTACTGGCAGATCTTGAACCAAGTTCATGTTTACT
GGTGATCTTGAGTGTGAGAAGCTCCTGATGGAAGCTATGAAGTATCATCTTTTGCCTGAGAGAAGATCC
ATGATGCAAAAGCCCTCGGACAAAGCCTAGAAAAATCAACTGTGGGGGCACCTTATGCTGTAGGAGGCATG
GATGCTATGAAAGGTACTACTACTATTGAAAAATATGACCTCAGGACCAACAGTTGGCTACATATTGGC
ACCATGAATGGCCGTAGGCTTCAATTTGGAGTCGAGTTATTGATAATAAGCTCTATGTCGTGGGAGGA
AGAGACGGTTTAAAACTTTGAATACAGTGAATGTTTAAATCCAGTTGGCAAAATCTGGACTGTGATG
CCTCCCATGTCAACACATCGGCACGGCTTAGGTGTAGCCACTCTTGAAGGACCAATGTATGCTGTAGGT
GGTCATGATGGATGGAGCTATCTAAATCTGTAGAAAGATGGGACCCTGAGGGACGACAGTGAATTAC
GTAGCCAGTATGTCAACTCCTAGAGCACAGTTGGTGTGTTGCATTAAACAACAAATTATATGCTATT
GGTGGACGTGATGGAAGTTCTGCCTCAAATCAATGGAATACTTTGACCCACACACTAACAAGTGGAGT
TTGTGTGCTCCAATGTCCAAAAGACGTGGAGGTGTGGGAGTTGCCACATACAATGGATTCTTATATGTT
GTAGGGGGGCATGATGCCCTGCTTCCAACCATTGCTCCAGGCTTTCTGACTGTGTGGAACGGTATGAT
CCAAAAGGTGATTCATGGTCAACTGTGGCACCTCTGAGTGTTCCTCGAGATGCTGTTGCTGTGTCCT
CTTGGAGACAACTCTACGTGGTTGGAGGATATGACGGACATACTTATTTGAACACAGTTGAGTCATAT
GATGCACAGAGAAATGAATGGAAGAGAGCATGCAAGAACTTCTACAAAACCTTCTATACCACACAGAAG
CTGAAAGAGACTCTGGGGCACATA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_057162

Insert Size:

2163 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. 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_057162.2
RefSeq Size:	2547 bp
RefSeq ORF:	2163 bp
Locus ID:	56062
UniProt ID:	Q9C0H6
Cytogenetics:	Xq21.31
Domains:	BTB, Kelch
MW:	80.8 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]

Transcript Variant: This variant (2) encodes isoform 2 which is 2 aa longer than isoform 1, and has a distinct C-terminus.