

Product datasheet for **SC327117**

KLHL2 (NM_001161521) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	KLHL2
Synonyms:	ABP-KELCH; MAV; MAYVEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327117 representing NM_001161521.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTATGGTTGGAAGCACGGCCCCAGATTCTCTTTGTATGCACAAAGCAGGGTCATCAGAAGCCTCTC
GATTCAAAAGATGATAATACCGAAAACTGCCAGTGACAGTGAATCCTTGGCATATGAAGAAAGCT
TTCAAAGTCATGAACGAATTAAGAAGTCAAAATTTGCTGTGCGATGTCACAATTGTGGCAGAAGACATG
GAAATTTCTGCTCATAGAGTGGTGTGGCCGCCTGTAGTCCTTATTTTCATGCCATGTTTACAGGTGAG
ATGAGTGAGAGCCGAGCAAGAGAGTTAGAATAAAGAGGTAGATGGCTGGACCCTGAGGATGCTAATT
GATTATGTTTACACTGCAGAAATTCAGGTTACAGAAGAAAATGTACAGGTAATCTCCAGCAGCTGGT
CTCTTACAGTTACAGGATGTGAAGAAGACTTGTGTGAATTTTGGAAATCCAGCTTCACCCTGTCAAC
TGCTTAGGAATCCGGGCTTTTGTGATATGCATGCATGTACCGACCTTCTGAACAAGGCCAACACCTAT
GCAGAGCAACATTTGCAGATGTTGTACTTAGTGAAGAATTTCTCAATCTTGGCATCGAACAAGTGTGC
AGCTTAATCTCAAGTGACAACTTACCATTCTTCAGAAGAGAAGGTATTTGAAGCAGTAATAGCATGG
GTGAACCATGACAAGGATGTGAGGCAAGAGTTTATGGCCCGACTGATGGAACATGTACGGTTACCTTTG
CTTCTCGGGAATATTTAGTTCAGAGGGTTGAAGAGGAAGCATTGGTCAAGAAATAGCAGTGTGCTGAAA
GATTACCTCATTGAAGCAATGAAGTACCATTGCTGCCAACAGAGCAGCGTATATTAATGAAGAGTGTG
CGGACCCGGCTGAGGACACCATGAACCTTCCCAAATTGATGGTGGTGGTGGGGCCCAAGCACCAAAG
GCTATCCGGAGTGTGGAATGCTATGACTTTAAAGAAAGAAAGGTGGCACCAGTAGCAGAGTTGCCTTCC
AGGAGGTGCAGGGCAGGCATGGTCTACATGGCTGGACTTGTTTTGTGTTGGTGGCTTTAATGGCTCA
TTAAGAGTTCGACTGTAGATTCTACGACCTGTGAAGGACAGTGGACCAGCGTTGCTAACATGAGA
GACCGGAGAAGCACTTTGGGAGCTGCTGTGTTAAATGGATTATTACGCTGTGGAGGCTTTGATGGG
AGTACAGGTTTGTATCTGTGGAAGCATACAACATAAAGTCTAATGAGTGGTTTCATGTAGCTCCCATG
AATACAAGGAGGAGCAGTGTGGTGTGGGTGTTGTTGGAGGTTTGTCTATGCTGTAGGAGGTTATGAT
GGAGCATCACGTCACTGTCTTAGCAGAGTAGAATGCTATAATGCTACAACAAATGAGTGGACCTATATA
GCAGAAATGAGCACCAGCGGAGTGGAGCAGGTGTTGGTGTGTTAAACAATTTATTGTATGCTGTAGGA
GGTCATGATGGCCCTTTAGTACGAAAAAGTGTGAAGTATATGATCCCAACCAACGCATGGAGACAG
GTTGCAGATATGAACATGTGCAGAAGAAATGCAGGAGTTTGTGCAGTTAATGGTCTGTTATATGTTGTT
GGAGGGGATGATGGTCTGTAACCTGGCGTCAGTAGAATATTATAACCCAACAACCGATAAATGGACA
GTTGTGTCATCGTGTATGAGCACAGGGAGAAGTTATGCAGGGTTCAGTTATTGATAAACCATTAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001161521

Insert Size: 1794 bp

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: 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:	<u>NM_001161521.1</u>
RefSeq Size:	3014 bp
RefSeq ORF:	1794 bp
Locus ID:	11275
UniProt ID:	<u>O95198</u>
Cytogenetics:	4q32.3
MW:	66.6 kDa
Gene Summary:	Component of a cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex that mediates the ubiquitination of target proteins, such as NPTXR, leading most often to their proteasomal degradation (By similarity). Responsible for degradative ubiquitination of the WNK kinases WNK1, WNK3 and WNK4. Plays a role in the reorganization of the actin cytoskeleton. Promotes growth of cell projections in oligodendrocyte precursors. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is longer than isoform 1.