

Product datasheet for **SC115613**

KLHL2 (NM_007246) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL2 (NM_007246) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLHL2
Synonyms:	ABP-KELCH; MAV; MAYVEN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115613 sequence for NM_007246 edited (data generated by NextGen Sequencing)

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ATGGAGACGCCGCCGCTGCCTCCCGCATGCACAAAGCAGGGTCATCAGAAGCCTCTCGAT
TCAAAAGATGATAATACCGAAAAACACTGCCAGTGACAGTGAATCCTTGGCATATGAAG
AAAGCTTTCAAAGTCATGAACGAATTAAGAAGTCAAAATTTGCTGTGCGATGTCACAATT
GTGGCAGAAGACATGGAATTTCTGCTCATAGAGTGGTGTGCGCCGCTGTAGTCCTTAT
TTTCATGCCATGTTTACAGGTGAGATGAGTGAGAGCCGAGCAAGAGAGTTAGAATAAAA
GAGGTAGATGGTGGACCTGAGGATGCTAATTGATTATGTTTACACTGCAGAAATTCAG
GTTACAGAAGAAAATGTACAGGTACTTCTCCAGCAGCTGGTCTTTACAGTTACAGGAT
GTGAAGAAGACTTGTGTGAATTTTGAATCCCAGCTTCACCCTGTCAACTGCTTAGGA
ATCCGGGCTTTTGTGATATGCATGCATGTACCGACCTTCTGAACAAGGCCAACACCTAT
GCAGAGCAACATTTTGCAGATGTTGTACTTAGTGAAGAATTTCTCAATCTTGGCATCGAA
CAAGTGTGCAGCTTAATCTCAAGTGACAACTTACCATTTCTTCAAGAGAAGGATTTT
GAAGCAGTAATAGCATGGGTGAACCATGACAAGGATGTGAGGCAAGAGTTTATGGCCGA
CTGATGGAACATGTACGTTTACCTTTGCTTCTCGGGAATATTTAGTTCAGAGGGTTGAA
GAGGAAGCATTGGTCAAGAATAGCAGTGCTTGCAAGATTACCTATTGAAGCAATGAAG
TACCATTTGCTGCCAACAGAGCAGCGTATATTAATGAAGAGTGTCCGGACCCGGCTGAGG
ACACCCATGAACCTTCCCAAATGATGGTGGTGGTGGGGCCAAAGCACCAGGCTATC
CGGAGTGTGGAATGCTATGACTTTAAAGAAGAAAGGTGGCACCAGTAGCAGAGTTGCCT
TCCAGGAGGTGCAGGGCAGGCATGGTCTACATGGCTGGACTTGTTTTGCTGTTGGTGGC
TTTAATGGCTCATTAAAGATTTCGCACTGTAGATTCCTACGACCTGTGAAGGACCAAGTG
ACCAGCGTTGCTAACATGAGAGACCGGAGAAGCACTTTGGGAGCTGCTGTGTTAAATGGA
TTATTATACGCTGTGGGAGGCTTTGATGGGAGTACAGGTTTGTCACTGTGGAAGCATAC
AACATAAAGTCTAATGAGTGGTTTCATGTAGCTCCCATGAATACAAGGAGGAGCAGTGTT
GGTGTGGGTGTTGTTGGAGGTTTCTCTATGCTGTAGGAGTTATGATGGAGCATCACGT
CAGTGTCTTAGCACAGTAGAATGCTATAATGCTACAACAATGAGTGGACCTATATAGCA
GAAATGAGCACCAGGCGGAGTGGAGCAGGTGTTGGTGTGTTAAACAATTTATTGTATGCT
GTAGGAGGTGATGATGGCCCTTTAGTACGAAAAAGTGTGAAGTATATGATCCCACCACT
AACGCATGGAGACAGGTGCAGATATGAACATGTGCAGAAGAAATGCAGGAGTTTGTGCA
GTTAATGGTCTGTTATATGTTGTTGGAGGGGATGATGGTTCCTGTAACCTGGCGTCAGTA
GAATATTATAACCAACAACCGATAAATGGACAGTTGTGTCATCGTGTATGAGCACAGGG
AGAAGTTATGCAGGGGTACAGTTATTGATAAACCATTTATGA
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Clone variation with respect to NM_007246.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007246 unedited

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TTCCCATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGGCGCGCGCCC
CCTCCGGGCGGATGGAACGCGGCTCGGCGGGCGGCAAGTCCCGGCGTCCGCGGCTGGAAT
GGTGTGCTGTGTTGGTTCGCTGCTTCTCTGACCCGAGAGGAGCCACAATGGAGA
CGCCGCCGCTGCCTCCCGCATGCACAAAGCAGGGTCATCAGAAGCCTCTCGATTCAAAAG
ATGATAATACCGAAAAACACTGCCAGTGACAGTGAATCCTTGGCATATGAAGAAAGCTT
TCAAAGTCATGAACGAATTAAGAAGTCAAAATTTGCTGTGCGATGTCACAATTGTGGCAG
AAGACATGGAAAATTTCTGCTCATAGAGTGGTGTGCGCCGCTGTAGTCCTATTTTCATG
CCATGTTTACAGGTGAGATGAGTGAGAGCCGAGCAAGAGAGTTACAATAAAGAGGTAG
ATGGCTGGACCTGAGGATGCTAATTGATTATGTTTACACTGCACAAATTCAGTTACAG
AAGAAAATGTACATGTACTTCTCCACCAAGCTGGTCTCTTACAGTTACAGGATGTGAAGA
AGACTTGTGNGAATTTTGAATCCCAGCTTTACCCTGTCCCCTGCTTAGGAATCCGGG
CTTTTGTGATATGCATGCATGTACCGACCTTTTGAACAATGCCACACCTATGCAGAGCA
ACATTTTGCACATGTTGTCCCTTATGAAAGAAATNCTCAATCTTGGCATCGGACAAGTGTG
CAGCTTAATCTCAAGGGACAACTTACCTTTCTTTGAAAAAAGTTATTGAAGCATAAT
AGCAGGGTGAACCATGAAAGATGCGAGGCCAGAGTTATGGCCCGCTGTAGGACTTGTC
CGGTACCTTTGCTTCTCGGCAAACTTATTAAG
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007246 unedited <pre> CCCCCCCCCCCCCNCCTTCCCCCTTTTCTTTTCTGTNCCGNCGGCCGCATTTT ACGATCGAGTTTTTTTTTTTTTTTTTGCAAACAATAATATACAACTTTTATTCAAAG TTAATTCAAGAAAGACATGTTTTGGTCATTTTAAAGTGAGATTAATTGAAGATCTCAGA AAACTGTATCTGATCAACACACATGGCTACTCACAGAAAGTTCTCTTCTGTTAATAG CAGCTAAATTTATACACACAGAAAAATCCGAAGACCATGCAAATTCATTGAATTCCA TACATTCATTATATTCATCAAAAACCTGCAGTAATGTTTCATGCCAAAGTGTTAATTTAAG AAAAAATTAAAAATACACACCAAAACATGACCAAGATTAACTAAAGAAAAATAAAT AAGCATAATTTATATTGTATTTAAAAAGTTTGGCATCACATATTCAAGTGTGTACAC CCAGGTCCATTCTCAGAAAGTGGCATTAAAGTGTAAAGCATTGTAAATATCAAAAAAT ACAACCTGTTTTACAATGTAGTACTGGCATAATTCAAAGTACTGTGCCCAATTATAAT AGTATAATCAAGTTTCAACATCTTTTCAACATATTTAAAGGAAAGCCTATAGACACAC ATTTATATGCACATAATTTATTATTCATGTAATCAAAGCTATTTTATAAAGCACACA GTGTATCCCTCCCTAGTTTGTATACTTACGTAGACTTTAATATCTGTTTAAAGATTTTCA GTTCTGTGTATACAGATTTTGAAGAATAAAGATAAAATTAATTTCTTACANGAACCCC CATTACTTTATCCTCCTCACCAGAAAATCTGTATCCATTGAGGGTGAAAGAACTAGCTC TTATTGAAAGCAACTGTTGTCTAAAGAATAAAGATTAATTCTTGACGCCAGTTTTTTAG AAAATTCATC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_007246
Insert Size:	3090 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).
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_007246.2 , NP_009177.2
RefSeq Size:	3159 bp
RefSeq ORF:	1782 bp
Locus ID:	11275
UniProt ID:	O95198
Cytogenetics:	4q32.3
Domains:	BTB, Kelch

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 (1) represents the longest transcript and encodes isoform 1.