

## Product datasheet for **RC228482**

### **KLHL2 (NM\_001161521) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KLHL2 (NM_001161521) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHL2
Synonyms:	ABP-KELCH; MAV; MAYVEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC228482 representing NM\_001161521  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTATGGTTGGAAGCACGGCCCCAGATTCTCTTTGTATGCACAAAGCAGGGTCATCAGAAGCCTCTCG  
 ATTCAAAAGATGATAATACCGAAAAACACTGCCAGTGACAGTGAATCCTTGGCATATGAAGAAAGCTTT  
 CAAAGTCATGAACGAATTAAGAAGTCAAAATTTGCTGTGCGATGCACAATTGTGGCAGAAGACATGGAA  
 ATTTCTGCTCATAGAGTGGTGGTGGCCGCTGTAGTCCTATTTTCATGCCATGTTTACAGGTGAGATGA  
 GTGAGAGCCGAGCAAAGAGAGTTAGAATAAAAGAGGTAGATGGCTGGACCCTGAGGATGCTAATTGATTA  
 TGTTTACTACTGCAGAAATTCAGGTTACAGAAGAAAATGTACAGGTAATCTCCCAGCAGCTGGTCTCTTA  
 CAGTTACAGGATGTGAAGAAGACTTGTGTGAATTTTGGAAATCCAGCTTACCCTGTCAACTGCTTAG  
 GAATCCGGGCTTTGCTGATATGCATGCATGTACCGACCTTCTGAACAAGCCAACCTATGCAGAGCA  
 ACATTTTGCAGATGTTGTAAGTGAAGAATTTCTCAATCTTGGCATCGAACAAGTGTGCAGCTTAATC  
 TCAAGTGACAAACTTACCATTTCTCAGAAGAGAAGGTATTTGAAGCAGTAATAGCATGGGTGAACCATG  
 ACAAGGATGTGAGGCAAGAGTTTATGGCCCGACTGATGGAACATGTACGGTTACCTTTGCTTCTCGGGA  
 ATATTTAGTTTACAGGGTTGAAGAGGAAGCATTGGTCAAGAATAGCAGTCTTGCAAAGATTACCTCATT  
 GAAGCAATGAAGTACCATTTGCTGCCAACAGAGCAGCGTATATTAATGAAGAGTGTCCGGACCCGGCTGA  
 GGACCCCATGAACCTTCCCAAATTTGATGGTGGTGGTGGGGCCAAGCACCAAAGGCTATCCGGAGTGT  
 GGAATGCTATGACTTTAAAGAAGAAAGGTGGCACCAGTAGCAGAGTTGCCTTCCAGGAGGTGCAGGGCA  
 GGCATGGTCTACATGGCTGGACTTGTTTTGTGTTGGTGGCTTAATGGCTCATTAAAGAGTTCGCACCTG  
 TAGATCTACGACCCTGTGAAGGACCAGTGGACCAGCGTTGCTAACATGAGAGACCGGAGAAGCACTTT  
 GGGAGCTGCTGTGTTAAATGGATTATTATACGCTGTGGGAGGCTTTGATGGGAGTACAGGTTTGTACATCT  
 GTGGAAGCATACAACATAAAGTCTAATGAGTGGTTTCATGTAGCTCCCATGAATACAAGGAGGAGCAGTG  
 TTGGTGTGGTGTGTTGGAGGTTTGTCTATGCTGTAGGAGTTATGATGGAGCATCACGTCAGTGTCT  
 TAGCACAGTAGAATGCTATAATGCTACAACAAATGAGTGGACCTATATAGCAGAAATGAGCACCAGGCGG  
 AGTGGAGCAGGTGTTGGTGTGTTAAACAATTTATTGTATGCTGTAGGAGGTGATGATGGCCCTTTAGTAC  
 GAAAAAGTGTGAAGTATATGATCCCACTAACGCATGGAGACAGGTTGCAGATATGAACATGTGCAG  
 AAGAAATGCAGGAGTTTGTGCAGTTAATGGTCTGTTATATGTTGTTGGAGGGGATGATGGTCTCTGTAAC  
 TTGGCGTCAGTAGAATATTATAACCCAACAACCGATAAATGGACAGTTGTGTCATCGTGTATGAGCACAG  
 GGAGAAGTTATGCAGGGTCCACAGTTATTGATAAACCATTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228482 representing NM\_001161521  
 Red=Cloning site Green=Tags(s)

MVWLEARPQILFVCTKQGHQKPLDSKDDNTEKHCPVTVNPWHMKKAFKVMNELRSQNLCDVTIVAEDME  
 ISAHRVLAACSPYFHAMFTGEMSESRAKRVRIKEVDGWLRLMLIDYVYTAIEIQVTEENVQVLLPAAGLL  
 QLQDVKKTCCEFLSQLHPVNCLGIRAFADMHACTDLLNKANTYAEQHFADVVLSEEFNLNGIEQVCSLI  
 SSDKLTISSEKVF EAVIAWVNHDKDVRQEFMARLMEHVRLPLLPREYLQVRVEEALVKNSSACKDYLI  
 EAMKYHLLPTEQRILMKSVRTRLRTPMNLPKLMVVVGGQAPKAIRSV ECYDFKEERWHQVAELPSRR CRA  
 GMVYVYAGLVFAVGGFNGSLRVRTVDSYDPVKDQWTSVANMRDRRSTLGAAVLNGLLYAVGGFDGSTGLSS  
 VEAYNIKSNWFHVAPMNTRRSSVGVVVGGLLYAVGGYDGASRQCLSTVECYNATTNEWYIAEMSTRR  
 SGAGVGLNLLYAVGGHDGPLVRKSVEVYDPTTNAWRQVADMNMCRRNAGVCAVNGLLYVVGDDGSCN  
 LASVEYYPPTDKWTVVSSCMSTGRSYAGVTVIDKPL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8069\\_a05.zip](https://cdn.origene.com/chromatograms/mk8069_a05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001161521

ORF Size: 1791 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\\_001161521.1](#), [NP\\_001154993.1](#)

RefSeq ORF: 1794 bp

Locus ID: 11275

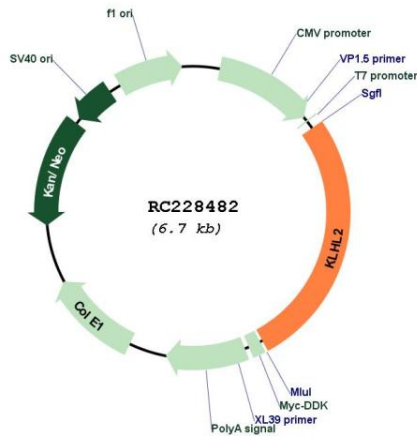
UniProt ID: [O95198](#)

**Cytogenetics:** 4q32.3

**MW:** 66.4 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]

**Product images:**



Circular map for RC228482