

Product datasheet for **RG228482**

KLHL2 (NM_001161521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL2 (NM_001161521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHL2
Synonyms:	ABP-KELCH; MAV; MAYVEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG228482 representing NM_001161521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTATGGTTGGAAGCACGGCCCCAGATTCTCTTTGTATGCACAAAGCAGGGTCATCAGAAGCCTCTCG
 ATTCAAAAGATGATAATACCGAAAAACACTGCCAGTGACAGTGAATCCTTGGCATATGAAGAAAGCTTT
 CAAAGTCATGAACGAATTAAGAAGTCAAAATTTGCTGTGCGATGCACAATTGTGGCAGAAGACATGGAA
 ATTTCTGCTCATAGAGTGGTGGTGGCCGCTGTAGTCCTATTTTCATGCCATGTTTACAGGTGAGATGA
 GTGAGAGCCGAGCAAAGAGAGTTAGAATAAAAGAGGTAGATGGCTGGACCCTGAGGATGCTAATTGATTA
 TGTTTACTACTGCAGAAATTCAGGTTACAGAAGAAAATGTACAGGTAATCTCCCAGCAGCTGGTCTCTTA
 CAGTTACAGGATGTGAAGAAGACTTGTGTGAATTTTGGAAATCCAGCTTACCCTGTCAACTGCTTAG
 GAATCCGGCTTTTGTGATATGCATGCATGTACCGACCTTCTGAACAAGCCAACCTATGCAGAGCA
 ACATTTTGCAGATGTTGTAAGTGAAGAATTTCTCAATCTTGGCATCGAACAAGTGTGCAGCTTAATC
 TCAAGTGACAAACTTACCATTTCTCAGAAGAGAAGGTATTTGAAGCAGTAATAGCATGGGTGAACCATG
 ACAAGGATGTGAGGCAAGAGTTTATGGCCCGACTGATGGAACATGTACGGTTACCTTTGCTTCTCGGGA
 ATATTTAGTTTACAGGGTTGAAGAGGAAGCATTGGTCAAGAATAGCAGTCTTGCAAAGATTACCTCATT
 GAAGCAATGAAGTACCATTTGCTGCCAACAGAGCAGCGTATATTAATGAAGAGTGTCCGGACCCGGCTGA
 GGACCCCATGAACCTTCCCAAATTTGATGGTGGTGGTGGGGCCAAAGCACCAAAGGCTATCCGGAGTGT
 GGAATGCTATGACTTTAAAGAAGAAAGGTGGCACCAGTAGCAGAGTTGCCTTCCAGGAGGTGCAGGGCA
 GGCATGGTCTACATGGCTGGACTTGTTTTGTGTTGGTGGCTTAAATGGCTCATTAAAGAGTTCGCACTG
 TAGATTCCTACGACCCTGTGAAGGACAGTGGACCAGCGTTGCTAACATGAGAGACCGGAGAGCATT
 GGGAGCTGCTGTGTTAAATGGATTATTATACGCTGTGGGAGGCTTTGATGGGAGTACAGGTTTGTATCT
 GTGGAAGCATACAACATAAAGTCTAATGAGTGGTTTCATGTAGCTCCCATGAATACAAGGAGGAGCAGTG
 TTGGTGTGGTGTGTTGGAGGTTTGTCTATGCTGTAGGAGGTTATGATGGAGCATCACGTCAGTGTCT
 TAGCACAGTAGAATGCTATAATGCTACAACAAATGAGTGGACCTATATAGCAGAAATGAGCACCAGGCGG
 AGTGGAGCAGGTGTTGGTGTGTTAAACAATTTATTGTATGCTGTAGGAGGTCATGATGGCCCTTTAGTAC
 GAAAAAGTGTGAAGTATATGATCCCACTAACGCATGGAGACAGGTTGCAGATATGAACATGTGCAG
 AAGAAATGCAGGAGTTTGTGCAGTTAATGGTCTGTTATATGTTGTTGGAGGGGATGATGGTCTCTGTAAC
 TTGGCGTCAGTAGAATATTATAACCCAACAACCGATAAATGGACAGTTGTGCATCGTGTATGAGCACAG
 GGAGAAGTTATGCAGGGTCCACAGTTATTGATAAACCATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228482 representing NM_001161521
 Red=Cloning site Green=Tags(s)

MVWLEARPQILFVCTKQGHQKPLDSKDDNTEKHCPVTVNPNWMMKAFKVMNELRSQNLCDVTIVAEDME
 ISAHRVVLAACSPYFHAMFTGEMSESRAKRVRIKEVDGWTLRMLIDYVYTAETIQVTEENVQVLLPAAGLL
 QLQDVKKTCCEFLSQLHPVNCLGIRAFADMHACTDLLNKANTYAEQHFADVVLSEEFNLNGIEQVCSLI
 SSDKLTISSEKVFEEAVIAWVNHDKDVRQEFMARLMEHVRLPLLPREYLQQRVEEALVKNSSACKDYLI
 EAMKYHLLPTEQRILMKSVRTRLRTPMNLPKLMVVVGGQAPKAIRSVCEYDFKEERWHQVAELPSRRRA
 GMVYMAGLVFAVGGFNGSLRVRTVDSYDPVKDQWTSVANMRDRRSTLGAAVLNGLLYAVGGFDGSLSS
 VEAYNIKSNEWFHVAPMNTRRSSVGVVGGLLYAVGGYDGASRQCLSTVECYNATTNEWTYIAEMSTRR
 SGAGVGLNLLYAVGGHDGPLVRKSVEYDPTTNAWRQVADMNMCRRNAGVCAVNGLLYVVGDDGSCN
 LASVEYYPNTTDKWTVVSSCMSTGRSYAGVTVIDKPL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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 Size:	3014 bp
RefSeq ORF:	1794 bp
Locus ID:	11275
UniProt ID:	O95198
Cytogenetics:	4q32.3
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]