

Product datasheet for **RG206979**

KLHL25 (NM_022480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL25 (NM_022480) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHL25
Synonyms:	ENC-2; ENC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206979 representing NM_022480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTCAAGTGTCCATGAGACCCGAAGTCGCGGAGCAGCACGGGGTCCATGAACGTACCCTCTTCC
 ACAAGGCCTCCCACCCGACTGTGTGCTGGCCACCTCAACACGCTTCGCAAGCACTGCATGTTACCCGA
 CGTCACACTCTGGGCGGGCAGCCGTGCCTTCCCCTGTACCGTGCCTGTGCGCCGCTCTAGCCGCTAT
 TTTGAGGCCATGTTACGCCATGGCCTTCGGGAGAGCCGGGATGACACTGTCAACTCCAGGACAACCTGC
 ACCCGGAGGTGCTGGAGCTGCTGCTGGACTTTGCCTACTCCTCACGCATCGCCATCAACGAGGAGAACGC
 TGAGTCACTGCTGGAGGCAGGCGACATGCTGCAGTTCACGATGTGCGGGATGCTGCCGCCGAGTTCCTG
 GAGAAGAACCTTTCCCCTCCAACCTGCCTGGGCATGATGCTGCTCTCGGACGCCACCAGTGCCGCCGGC
 TGTATGAGTTCTCTGGCGCATGTGCCTGGTGCACCTTTGAGACGGTGAGGCAGAGCGAGGACTTCAACAG
 CCTGTCCAAGGACACACTGCTGGACCTCATCTCGAGTGTGAGCTGGAGACCGAGGACGAGCGGGTGGTC
 TTCGAGGCCATCCTCCAGTGGGTGAAGCAGCACCTGGAGCCACGGAAGGTCCACTTGCCCGAGCTCCTCC
 GCAGCGTGCCTTGGCCTTGGCTGCCGCTCCGACTGCCTGCAGGAGGCCGTCTCCAGCGAGGCCCTCCTCAT
 GGCAGACGAGCGACCAAGCTTATCATGGATGAGGCCCTGCGCTGCAAGACCAGGATCCTGCAGAATGAT
 GGCGTGGTACCAGCCCCGTGCCCGGCCACGCAAGGCGGGCCACACGCTACTCATCCTGGGGGGCCAGA
 CCTTATGTGTGACAAGATCTACCAGGTGGACCACAAGGCCAAGGAGATCATCCCCAAGGCCGACCTGCC
 CAGCCCCCGAAGGAGTTCAGCGCCTCAGCGATCGGCTGCAAGGTCTATGTGACGGGGGGCAGGGGCTCC
 GAGAAGGGGTCTCCAAGGATGTCTGGGTGACGACACCGTACATGAGGAATGGTCCAAGCGGCCGCCA
 TGCTGATTGCCGCTTTGGCCATGGCTCAGCTGAGCTGGAGAATCGCTCTATGTGGTGGGGGGACACAC
 ATCCCTGGCAGGGGTCTTCCCGGCTCGCTTCTGTCTCCCTGAAACAAGTGGAGAAATACGACCCTGGG
 GCCAACAAGTGGATGATGGTGGCCCCCTTGGGGATGGCGTACGCAATGCCGAGTGGTGGTGGCAAGC
 TGAAGCTCTTTGTTTTGGAGGAACCAGCATCCACCGGACATGGTGTCCAAGGTCCAGTGTATGACCC
 CTCGGAGAACAGGTGGACGATCAAGGCCGAGTCCCCCAGCCTTGGCGGTACACAGCCGCTGCCGCTCTG
 GGCAGCCAGATCTTATCATGGGAGGTGACACGGAATTCACAGCCGCTCGGCTACCGCTTTGACTGTG
 AGACCAACAGTGGACCGGATTGGGGACATGACTGCCAAGCGCATGTCTGCCATGCCCTGGCTCCGG
 CAACAAGCTCTATGTGGTGGGGGCTACTTTGGGACCCAGAGGTGAAGACTCTGGACTGCTATGACCCC
 ACTTCAGATACATGGAAGTGCATCACCACAGTGCCTACTCACTATCCCCACGGCCTTTGTCAGCACCT
 GAAGCACCTGCCCGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206979 representing NM_022480
 Red=Cloning site Green=Tags(s)

MSVSVHETRSRSSTGSMNVTLFHKASHPCVLAHLNLRKHCMTDVTWAGDRAFPCHRAVLAASSRY
 FEAMFSLHRESRDDTVNFQDNLHPEVLELLLDFAVSSRIAINEENAESLLEAGDMLQFHDVRAAAEFL
 EKNLFPNCLGMLLSDAHQCRRLYEFVSRMCLVHFETVRQSEDFNSLSKDTLLDLISSDELETEDERVV
 FEAILQWVKHDLPRKVHLPPELLRSVRLALLPSDCLQEAVSSEALLMADERTKLIMDEALRCKTRILQND
 GVVTSPCARPRKAGHTLLILGGQTFMCDKIYQVDHKAKEIIPKADLPSPRKEFSASAIGCKVYVVTGGRGS
 ENGVSKDVWVYDVTVHEEWSKAAPMLIARFHGHSAELENCLYVVGHTSLAGVFPASPSVSLKQVEKYDPG
 ANKWMVAPLRDGVSNAAVVSALKLKFVFGGTSIHRDMVSKVQCYDPSENRTWIKAECPQPWRYTAAAVL
 GSQIFIMGGDTEFTAASAYRFDCEITNQWTRIGDMTAKRMSCHALASGNKLYVVGYYFGTQRCKTLDCYDP
 TSDTWNCITTPYSLIPTAFVSTWKHLPA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_022480

ORF Size: 1767 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_022480.4](#)

RefSeq Size: 3683 bp

RefSeq ORF: 1770 bp

Locus ID: 64410

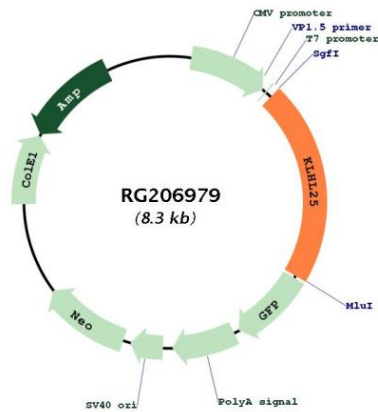
UniProt ID: [Q9H0H3](#)

Cytogenetics: 15q25.3

Domains: BTB, Kelch

Gene Summary: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for translational homeostasis. The BCR(KLHL25) ubiquitin ligase complex acts by mediating ubiquitination of hypophosphorylated EIF4EBP1 (4E-BP1): ubiquitination and subsequent degradation of hypophosphorylated EIF4EBP1 (4E-BP1) probably serves as a homeostatic mechanism to maintain translation and prevent eIF4E inhibition when eIF4E levels are low. The BCR(KLHL25) complex does not target EIF4EBP1 (4E-BP1) when it is hyperphosphorylated or associated with eIF4E.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206979