

Product datasheet for **RG207161**

KLHL6 (NM_130446) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KLHL6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207161 representing NM_130446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGTGATGTGGTCGAGAAGAGTTTGAAGGGCCCTGGCACCTTCTACAGATGAGCCCTCCAGAAAA
 CAGGAGACTTGGTCGAGATCTTAAATGGGGAAAAGGTCAAATTTGACGACGCGGACTCTCCTTAATTCT
 TCAGAAATGGCCTGGAAACCTGCGAATGGAACGCTCTGACAGATGTCATCTTGTGTGTGGACATTGAG
 GAATTCCTCTGCCACCGCTGGTGTCTTCCGCGACCCAGCACTATTTGAGGCCATGTTCTGCAACGATT
 TAAAGGAAAAGTATGAGAAAAGGATCATTATTAAGGGGTTGATGCTGAGACCATGCACACTCTGTTGGA
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 TCAAACTTTGTGCAGATTCTGAACCTGAGGAGTTTCTTGACCTGCCGTTGGACACTCTGCACCACATC
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 GTTATCGCCACGGTGTGTGCTGGGACCCGAGGCCAGAACTGACAGAGGAGTGGTCTGCCCCGGG
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 AGTGTCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

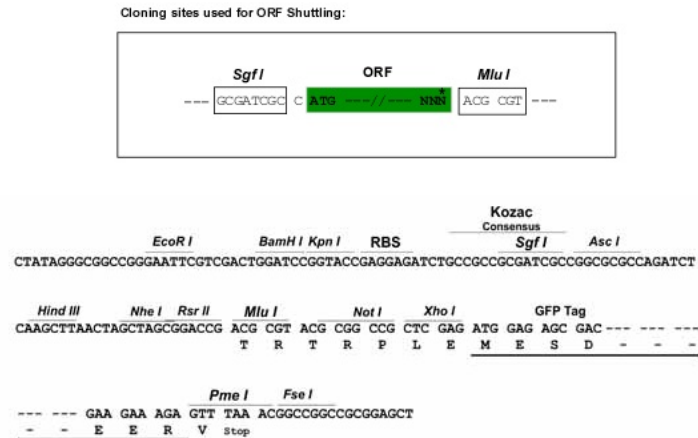
Protein Sequence: >RG207161 representing NM_130446
 Red=Cloning site Green=Tags(s)

MGDVVEKSLEGPLAPSTDEPSQKTGDLVEILNGEKVKFDDAGLSLILQNGLETLRMENALTDVILCVDIQ
 EFSCHRVVLAASNYFRAMFCNDLKEKYEKRIIIGVDAETMHTLLDYTYTSKALITKQNVQRVLEAANL
 FQFLRMVDACASFLTEALNPENCVGILRLADTHSLDSLKKQVQSYIIQNFVQILNSEEFDLDPVDTLHHI
 LKSDLLYVTEEAQVFETVMSWVRHKPSERLCLLPYVLENVRLPLDPWYFVETVEADPLIRQCPEVFPL
 QEARMYHLSGNEIISERTKPRMHEFQSEVFMIIGGCTKDERFVAEVTCLDPLRRSRLEVAKLPLTEHELE
 SENKKWVEFACVTLKNEVYISGGKETQHDVWKNSSINKWIEYLNIGRWRHKMVLGGKVVYVIGGFDG
 LQRINNVEYDPPHNCWSEAPLLVHVSSFAATSHKKLYVIGGGPNGKLATDKTQCYDPSTNKWSLKAA
 MPVEAKCINAVSFRDRIYVVGAMRALYAYSPLDSWCLVTQLSHERASCGIAPCNNRLYITGGRDEKNE
 VIATVLCWDPEAQLTEECVLPGRVSHHGSVTIRKSYTHIRRIVPGAVSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130446

ORF Size: 1830 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_130446.2](#), [NP_569713.2](#)

RefSeq Size: 6320 bp

RefSeq ORF: 1866 bp

Locus ID: 89857

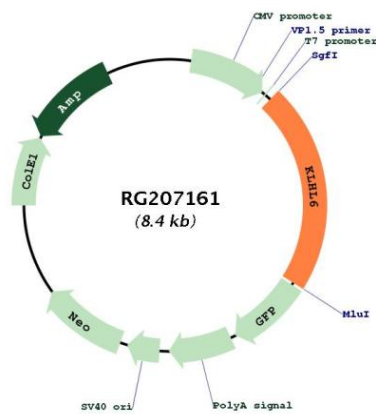
UniProt ID: [Q8WZ60](#)

Cytogenetics: 3q27.1

Domains: BTB, Kelch

Gene Summary: This gene encodes a member of the kelch-like (KLHL) family of proteins, which is involved in B-lymphocyte antigen receptor signaling and germinal-center B-cell maturation. The encoded protein contains an N-terminal broad-complex, tramtrack and bric a brac (BTB) domain that facilitates protein binding and dimerization, a BTB and C-terminal kelch (BACK) domain, and six C-terminal kelch repeat domains. Naturally occurring mutations in this gene are associated with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RG207161