

## Product datasheet for **RG207372**

### **KLHL8 (NM\_020803) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KLHL8 (NM_020803) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHL8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207372 representing NM\_020803  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTCAGATTCTATGAGTAGTAAACAAGCTAGGAATCACATTACAAAGGGGAAAAGGCAACAACAGC  
 ACCAGCAAATAAAGAACAGATCCTCAATTAGTGATGGTGATGGAGAAGATTCTTTATTTTTGAAGCAAA  
 TGAAGCTTGAAAAGATTTTCATGGTTCTCTTCTCGATTTTATGAAAATGGAGAAGCTCTGTGATGCACA  
 CTCAAGGTTGGCTCAAAGCTAATCTCTTGTCAAGCTGGTATTGGCTTGTGTTATTCCTACTTTAGAG  
 CCATGTTTCTTTCTGAAATGGCTGAAGCCAAGCAAACGCTGATTGAGATTAGAGATTTTGTGGTATGC  
 AATAGAAGACTTGGTAAAGTTTGTCTATTCTTACGGCTCACTTTGACTGTTGACAATGCCAGCCTCTC  
 TTATATGCAGCCTGTATTCTGCAGGTTGAAGCTGGTGGCTAGAGCTTGTGTAATACATGAAGTTACATT  
 TTCATCCCTCAATTGCCTGGCAGTAAGAGCCTTTCAGAAAAGTACAATCGAATAGACTTAATGGACAT  
 GCGGATCAGTATGCCTGTGACCATTTACTGAAGTAGTGGAGTGAAGACTTTGTAAGTATACCCG  
 CAGCACCTCCATAAGCTTTTGCCTCCAGTGATCTAAATATTGAAAATGAAAAGCAGGTCTATAATGCTG  
 CCATCAAGTGGCTTCTTGCCAATCCTCAGCATCATTCCAATGGTTGGATGAAACACTTGACAGGTTCCG  
 CCTGCCATTGTTGCCGTTGATTTTCTTATGGGTGTTGTGGCAAAAGAACAGATTGTCAAGCAAAATCTA  
 AAATGTAGAGATTTACTGGATGAAGCAAGAAAATACCACCTTCACTTGAGTAGCAGAGCAGTACCTGACT  
 TTGAATACTCCATTCCGACTACCCCAAGGAAGCATACTGCTGGTGTGCTGTTTTGTAGGTGGTCGAGG  
 TGGATCTGGTGAACCTTTCGCAGTATTGAATGCTATTCTATCAACAAAAACAGTTGGTTCTTTGGACCA  
 GAAATGAATAGTCGAAGGCGACATGTGGGTGAATCTCTGTGGAAGGTAAGTGTATGCAGTAGGTGGAC  
 ATGATGGAAATGAACATTTAGGGAGTATGGAGATGTTTATGATCCTCTCACTAATAAATGATGAAGGC  
 ATCAATGAACACAAAGAGGCGAGGAATTGCTTTGGCTTCTTAGGAGGCCCAATTTATGCAATTGGAGGG  
 TTAGATGACAATACTTGCTTCAATGATGTGGAGAGATATGACATAGAATCTGATCAGTGGAGTACAGTGG  
 CACCAATGAATACTCCCGTGGAGGAGTTGGCTCTGTTGCTCTAGTAAACCATGTTTATGCAGTAGGTGG  
 CAATGATGGAATGGCTTCTTTATCTAGCGTGGAGAGATATGATCCACATCTGGATAAGTGGATAGAAGTT  
 AAAGAAATGGGTGAGCAAGAGCAGGCAATGGAGTTAGCAAGCTTCAAGTTGCTTATACGTAGTTGGT  
 GTTTTGATGATAATTCTCGTCTGAGTTCAGTTGAGCGGTATGACCCCGAAGCAACAAGTGGGATTATGT  
 GGCAGCACTTACTACTCCAGAGGTGGAGTGGGAATCGCAACAGTATGGCAAAATCTTGCAGTTGGT  
 GGTGATAATGGCAATGCATACTTAAATACAGTAGAAGCGTTTATCCAGTCTGAATAGGTGGGAGCTTG  
 TTGGATCTGTGTCTCACTGCAGAGCTGGAGCAGGAGTAGCTGTGTTCCTGTTAACTAGCCAAATTCG  
 AGATGTAGGTCATGGATCCAATAATGTGGTTGACTGTATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207372 representing NM\_020803  
 Red=Cloning site Green=Tags(s)

MASDSMSSKQARNHITKGRQQHQQIKNRSSISDGDGEDSFI FEANEAWKDFHGSLLRFYENGELCDVT  
 LKVGSKLISCHKLVLACVIPYFRAMFLSEMAEAKQTLIEIRDFDGAIEDLVKVFYSSRLTLTVDNVQPL  
 LYAACILQVELVARACCEYMKLHFHPSNCLAVRAFAESHNRIDLMDADQYACDHFTEVVECEDFVSVSP  
 QHLHKLSSSDLNIENEKQVYNAAIKWLLANPQHHSKWLDETLAQVRLPLLPVDFLMGVVAKEQIVKQNL  
 KCRDLLDEARNYHLHLSSRAVPDFEYSIRTPRKHTAGVLFVGGRRGSGDPFRSIECYSINKNSWFFGP  
 EMNSRRRHVGVISVEGKVVAVGGHDGNEHLGSMEMFDPLTNKMMKASMNTRRGIALASLGGPIYAIGG  
 LDDNTCFNDVERYDIESDQWSTVAPMNTPRGGVGSVALVNHVYAVGGNDGMASLSSVERYDPLDKWIEV  
 KEMGQRRRAGNGVSKLHGCLYVVGFDNSRLSSVERYDPRSNKWDYVAALTPRGGVGIATVMGKIFAVG  
 GHNGNAYLNTVEAFDPVLRWELVGSVSHCRAGAVAVCSCLTSQIRDVGHGSNNVVDCM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_020803

**ORF Size:** 1860 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\\_020803.1](#)

**RefSeq Size:** 4576 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 57563

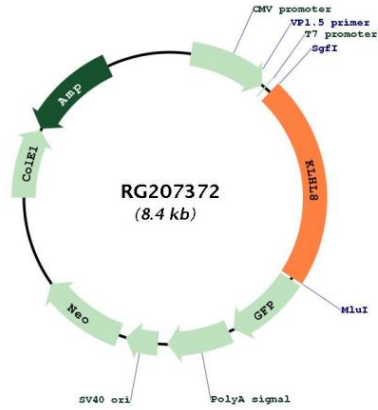
**UniProt ID:** [Q9P2G9](#)

**Cytogenetics:** 4q22.1

**Gene Summary:**

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for The BCR(KLHL8) ubiquitin ligase complex mediates ubiquitination and degradation of RAPSIN. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207372