

Product datasheet for **SC314064**

KLHL18 (NM_025010) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL18 (NM_025010) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLHL18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC314064 representing NM_025010.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTGGAGGACGGCGCGGAGGAGCTGGAGGATCTGGTGCACCTCTCCGTGTCTGAGTTGCCTAGTCGC
GGCTACGGCGTCATGGAGGAGATCCGGCGGCAGGCAAGCTGTGCGACGTGACCCCAAGATTGGGGAC
CACAAATTCAGTGCCACCGGATTGTCTTAGCAGCCTCGATCCCGTATTTCCATGCTATGTTTACAAT
GACATGATGGAGTGCAAGCAGGATGAGATTGTAATGCAAGGAATGGACCCAAGTGCCTGGAGGCTCTG
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TTCATCCACCAGCACTTTGTGGAGGTGCCATGTCAGAAGAGTTCCTGGCCCTGCCCTTGAAGACGTG
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TGGGTGAGATACGACCGGAGCAGAGGGTCCCTACCTGCCTGAGCTGCTGCAATATCCGCTGCC
CTCTGTGCGCCCAAGTTCCTTTAGACAGAGTACAGCAGGATGACCTGGTGCCTGCTGCCACAAATGC
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GCTGGCATGCTCAACAAGCGCTGCCGCACGGAGCCGCCTCCCTGGGAGCAAGATGTTTGTCTGCGGG
GGCTACGATGGCTCTGGCTTCTCAGCATTGCCGAGATGTACAGCTCTGTGGCAGACCAGTGGTGCCTG
ATTGTCCCATGCACACGCGCAGGAGCCGGTCTCCCTGGTGGCCAGCTGTGGGCGCTCTACGCTGT
GGGGGCTACGACGGACAGTCAAACCTAAGCTCAGTGGAGATGTATGACCCAGAGACAGACTGCTGGACA
TTCATGGCCCATGGCGTGCCATGAGGGAGGGTGGTGTGGGCTGCATCCCTCTCTCACCATCTAA

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_025010

Insert Size: 1725 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_025010.4](#)

RefSeq Size: 4743 bp

RefSeq ORF: 1725 bp

Locus ID: 23276

UniProt ID: [O94889](#)

Cytogenetics: 3p21.31

Domains: Kelch

MW: 63.6 kDa

Gene Summary: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis (PubMed:23213400). The BCR(KLHL18) E3 ubiquitin ligase complex mediates the ubiquitination of AURKA leading to its activation at the centrosome which is required for initiating mitotic entry (PubMed:23213400). Regulates light- and dark-dependent alpha-transducin localization changes in rod photoreceptors through UNC119 ubiquitination and degradation (By similarity). Preferentially ubiquitinates the unphosphorylated form of UNC119 over the phosphorylated form (By similarity). In the presence of UNC119, under dark-adapted conditions alpha-transducin mislocalizes from the outer segment to the inner part of rod photoreceptors which leads to decreased photoreceptor damage caused by light (By similarity).[UniProtKB/Swiss-Prot Function]