

Product datasheet for **RC212621**

KLHL14 (NM_020805) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHL14 (NM_020805) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHL14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC212621 representing NM_020805
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGATCCGGGGACAGGACCTCCACCTTCGACCCAGCCACAGCGACAACCTGCTGCACGGCCTCA
 ACCTGCTGTGGAGGAAGCAGCTGTTTTGCGACGTGACCTGACGGCCAGGGCCAGCAGTTCCATTGCCA
 CAAGGCCGTGCTGGCCTCCTGCTCGCAGTACTCCGATCGCTCTTCTCCAGCCACCCCCCTCTCGGGGA
 GGGGTGCGCGGCCAGGACGGCTGGGGGCCCCAAGACCAGCAGCAGCCGCGCAGCAGCAGCCGTAC
 AGCAGCAGCAGCCGCGCCGAGGAGCCGGGACTCCTTCTTCTCCCCGACGACAAGCTGCTGAC
 CAGCCCCGGGCCATCAACAACCTGGTGTGCAGGGCTGCTGTCCATCGGGCTGCGCCTGGTGTCTGAG
 TACCTCTACACGCCAACGTGACCTGTCCCTGGACACGGTGGAGGAGGTGCTGTCGGTCAGCAAGATCC
 TGCACATCCCCAGGTCACCAAGCTCTGCTGCAGTTCTCAACGACCAGATCTCGGTGCAGAACTACAA
 GCAGGTGTGAAGATCGCCGCGTGCACGGCTGGAGGAGACCAAGAAGCTGGCCAACAAGTACCTGGT
 GAGGATGTGCTGCTCAACTTCGAGGAGATGCGCGCCCTGCTGGACTCGCTGCCGCCCCCGTGGAGT
 CGGAGCTGGCGCTCTTCCAGATGTCCGTGCTGTGGCTGGAGCACGACCGCGAGACCCGCATGCAGTATGC
 GCCTGACCTCATGAAGCGCTCCGCTTCGCCCTCATCCCGCCCCGGAGCTGGTGGAGCGGGTCCAGTCA
 GTGGATTTTCATGCGAACCAGCCGGTCTGCCAGAAGCTGCTGCTGGACGCCATGAATACCACTGATGC
 CCTTCAGGCAGCACTGCAGGCAGAGCCTGGCCAGCAGAATTCGCTCTAACAAGAAAATGCTGTTATTGGT
 TGGAGGGCTGCCTCCTGGACCGGACCGGCTCCCCAGCAATTTGGTTCAGTATTACGACGATGAAAAGAAG
 ACATGGAATACTCACAAATATGCCATACAACAGTGGCCACCACTGCGTTGTGGAGGTGAAAACCTCT
 TGTTCTGTTGGTGGAGAGGACAGTGAATCCGAATGGAACACAGTACAAATTTTGTGAGCCGATA
 TGATCCTCGATTAAATAGCTGGATTCAACTTCCACCCATGCAGGAAAGAAGAGCCAGTTTCTATGCATGT
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 TATGACCCAGTAATGGATGTCTGGGCTCGAAAACAAGATATGAACACAAAACGTGCAATTCACACTTTGG
 CTGTAATGAATGATCGTTGTATGCAATTGGAGGAAATCATTTGAAAGGTTTCTCCACCTTGATGTAAT
 GCTTGTGAATGCTATGACCCAAAAGGTGACCAAGTGAATATACTCCAACTCCATTTTGGAGGGTCGA
 AGTGGCCCTGGCTGTGCACTGCTTGTGACAGCATTTACCTTGTGGGAGGCTACAGCTGGAGTATGGGG
 CCTACAAGTCATCTACAATATGCTATTGTCCAGAGAAAGGAACCTGGACAGAACTCGAAGGAGATGTAGC
 AGAACCGTTGGCAGGCCCTGCCTGTGTGACAGTTATTCTGCCCTCTTGTGTACCATAACAACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212621 representing NM_020805
 Red=Cloning site Green=Tags(s)

MSRSGDRTSTFDPSHSDNLLHGLNLLWRQLFCDVTLTAQGQQFHCHKAVLASCSQYFRSLFSSHPPLGG
 GVGGQDGLGAPKDQQPPQQPSQQQPPQEPPGTPSSSPDDKLLTSPRAINNLVLQGCSSIGLRLVLE
 YLYTANVTLSLDTVEEVLVSILHLPQVTKLCVQFLNDQISVQNYKQVCKIAALHGLEETKKLANKYL
 EDVLLNFEEMRALLDSLPPVESELALFQMSVLWLEHDRETRMQYAPDLMKRLRFALIPAPELVERVQS
 VDFMRDTPVCQKLLLDAMNYHLMFQRQSLASRIRSNKKMLLVGGLPPGPDRLPNVLQYYDDEKK
 TWKILTIMPYNASHHCVEVENFLFVLGGEDQWNPNGKHSTNFSRYDPRFNSWIQLPPMQERRASFYAC
 RLDKHLVYIGGRNETGYLSSVECYNLETNEWRYVSSLPQPLAAHAGAVHNGKIYISGGVHNGEYVPWL
 YC YDPVMDVWARKQDMNTKRAIHTLAVMNDRLYAIGGNHLKGFSHLDVMLVECYDPKGDQWNILQTPILEGR
 SGPGLAVLDDSIYLVGGYSWSMGAYKSSTICYCPEKGTWTELEGDVAEPLAGPACVTVILPSCVPYNK

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8023_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020805

ORF Size: 1884 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_020805.3](#)

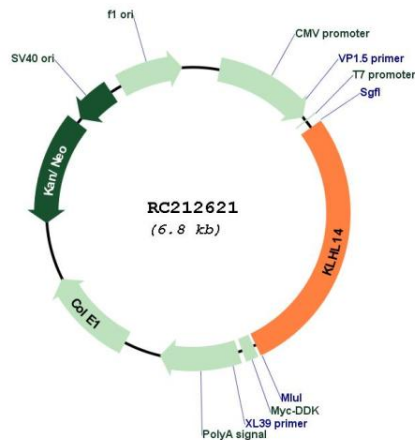
RefSeq Size: 4261 bp

RefSeq ORF: 1887 bp

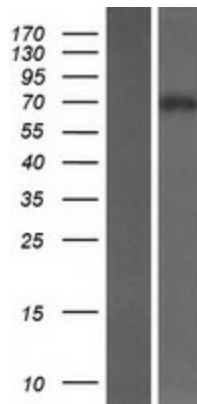
Locus ID: 57565
UniProt ID: [Q9P2G3](#)
Cytogenetics: 18q12.1
MW: 70.5 kDa

Gene Summary: The protein encoded by this gene is a member of the Kelch-like gene family, whose members contain a BTB/POZ domain, a BACK domain, and several Kelch domains. The encoded protein possesses six Kelch domains and localizes to the endoplasmic reticulum, where it interacts with torsin-1A. [provided by RefSeq, Sep 2015]

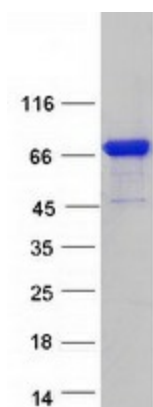
Product images:



Circular map for RC212621



Western blot validation of overexpression lysate (Cat# [LY412199]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212621 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KLHL14 protein (Cat# [TP312621]). The protein was produced from HEK293T cells transfected with KLHL14 cDNA clone (Cat# RC212621) using MegaTran 2.0 (Cat# [TT210002]).