

## Product datasheet for **RC238398**

### **C3IP1 (KLHL12) (NM\_001303109) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C3IP1 (KLHL12) (NM_001303109) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLHL12
Synonyms:	C3IP1; DKIR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238398 representing NM\_001303109  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGAGGCATTATGGCCCCAAAGACATAATGACAAATACTCATGCTAAATCCATCCTCAATTCAATGA  
 ACTCCCTCAGGAAGAGCAATACCCTCTGTGATGTGACATTGAGAGTAGAGCAGAAAGACTCCCTGCCCA  
 TCGGATTGTGCTGGCTGCCTGTAGTGATTACTTCTGTGCCATGTTCACTAGTGAGCTCTCAGAGAAGGGG  
 AAACCTTATGTTGACATCCAAGTTTACTGCCTCTACCATGGAATTTTATTGGACTTTGTGTACACAG  
 AAACAGTACATGTGACAGTGGAGAATGTACAAGAACTGCTTCTGCAGCCTGTCTGCTTCAGTTGAAAGG  
 TGTGAAACAAGCCTGCTGTGAGTTCTTAGAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTAGGGAT  
 TTTGCTGAAACCCACAATTGTGTGACCTGATGCAAGCAGCTGAGGTTTTAGCCAGAAGCATTTCCTG  
 AAGTGGTACAGCATGAAGAGTTCATTCTTCTGAGTCAAGGAGAGGTGGAAAAGCTAATCAAGTGGCAGCA  
 AATTCAGGTGGATTCTGAAGAGCCAGTCTTTGAGGCTGTCATCAACTGGTGAAGCATGCCAAGAAAGAG  
 CGGAAGAATCCTTGCCCTAACCTGCTACAGTATGTGCGGATGCCCTACTAACCCCAAGGTATATCACAG  
 ATGTAATAGATGCTGAGCCTTTCATCCGCTGTAGTTTACAATGCAGGGATCTGGTTGATGAAGCAAAGAA  
 GTTTCATCTGAGGCTGAACTTCGGAGTCAGATGCAGGGACCCAGGACAAGGGCTCGCCTAGATATGATC  
 TATGTCTCTGGAGGCTTTGATGGAAGCAGGCGTCACACAGTATGGAGCGCTATGATCCAAACATTGACC  
 AGTGGAGCATGCTGGGAGATATGCAGACAGCCCGGAAGGTGCCGGACTCGTAGTGGCCAGTGGAGTGAT  
 CTACTGTCTAGGAGGATATGACGGCTTGAATATCTTAAATTCAGTTGAGAAATACGACCCCTACACAGGA  
 CATTGGACTAATGTTACACCAATGGCCACCAAGCGTCTGGTGCAGGAGTAGCCCTGCTGAATGACCATA  
 TTTATGTGGTGGGGGATTTGATGGTACAGCCACCTTTCTCCGTTGAAGCATACAACATTCCGCTGAG  
 TTCCTGGACAACCTGTACCAAGTATGACCACTCCACGATGCTATGTAGGGGCCACAGTGTTCGGGGGAGA  
 CTCTATGCAATTGCAGGATATGATGGAATTCCTGCTAAGTAGCATTGAATGTTATGACCCATATCATCG  
 ACAGCTGGGAAGTCGTGACATCCATGGGAACCCAGCGCTGTGATGCTGGTGTGTTGTTCTCCGCGAGAA  
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238398 representing NM\_001303109  
 Red=Cloning site Green=Tags(s)

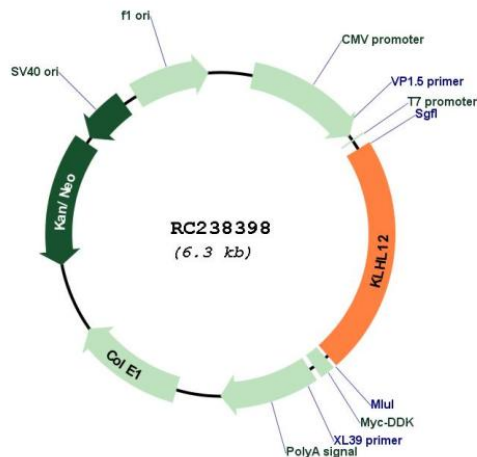
MGGIMAPKDIMTNTHAKSILNSMNSLRKSNTLCDVTLRVEQKDFPAHRIVLAACSDYFCAMFTSELSEK  
 KPYVDIQGLTASTMEILLDFVYTETVHVTVENVQELLPAACLLQLKGVKQACCEFLESQLDPSNCLGIRD  
 FAETHNCVDMQAAEVFSQKHFPEVVQHEEFILLSQGEVEKLIKDEIQVDSEEPVFEAVINWVKHAKKE  
 REESLPNLLQYVRMPLLTPRYITDVIDAEPFIRCSLQCRDLVDEAKKFHLRPELRSQMGPTRARLDMI  
 YVSGGFDGSRRHSMERYDPNIDQWSMLGDMQTAREGAGLVVAVSGVIYCLGGYDGLNILNSVEKYPHTG  
 HWTNVTMPATKRSGAGVALLNDHIYVVGFDGTAHLSSVEAYNIRTDSWTTVTSMTPRCYVVGATVLRGR  
 LYAIAGYDGNSSLSSIECYDPIIDSWEVVTSMGTQRCDAGVCVLRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001303109

**ORF Size:** 1401 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\\_001303109.2](#)

**RefSeq Size:** 3081 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 59349

**UniProt ID:** [Q53G59](#)

**Cytogenetics:** 1q32.1

**MW:** 52.6 kDa

**Gene Summary:** This gene encodes a member of the KLHL (Kelch-like) family of proteins. This protein has been identified as an autoantigen in the autoimmune disease Sjogren's syndrome and as a potential biomarker in primary biliary cirrhosis. This protein may act as a substrate adaptor of the Cullin-3 ubiquitin ligase complex to promote substrate-specific ubiquitylation. Ubiquitylation by this complex has been shown to regulate the Wnt signaling pathway as well as COPII vesicle coat size. A pseudogene has been identified on chromosome 22. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]