

## Product datasheet for **RG200894**

### **C3IP1 (KLHL12) (NM\_021633) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C3IP1 (KLHL12) (NM_021633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C3IP1
Synonyms:	C3IP1; DKIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200894 representing NM\_021633  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAGGCATTATGGCCCCAAAGACATAATGACAAATACTCATGCTAAATCCATCCTCAATTCAATGA  
 ACTCCCTCAGGAAGAGCAATACCCTCTGTGATGTGACATTGAGAGTAGAGCAGAAAGACTCCCTGCCCA  
 TCGGATTGTGCTGGCTGCCTGTAGTGATTACTTCTGTGCCATGTTCACTAGTGAGCTCTCAGAGAAGGGG  
 AAACCTTATGTTGACATCCAAGGTTTACTGCCTCTACCATGGAATTTTATTGGACTTTGTGTACACAG  
 AAACAGTACATGTGACAGTGGAGAATGTACAAGAACTGCTTCTGCAGCCTGTCTGCTTCAGTTGAAAGG  
 TGTGAAACAAGCCTGCTGTGAGTCTTAGAAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTAGGGAT  
 TTTGCTGAAACCCACAATTGTGTGACCTGATGCAAGCAGCTGAGGTTTTAGCCAGAAGCATTTCCTG  
 AAGTGGTACAGCATGAAGAGTTCATTCTTCTGAGTCAAGGAGAGGTGGAAAAGCTAATCAAGTGCACGA  
 AATTCAGGTGGATTCTGAAGAGCCAGTCTTTGAGGCTGTCATCAACTGGGTGAAGCATGCCAAGAAAGAG  
 CGGGAAGAATCCTTGCCTAACCTGCTACAGTATGTGCGGATGCCCTACTAACCCCCAGGTATATCACAG  
 ATGTAATAGATGCTGAGCCTTTCATCCGCTGTAGTTTACAATGCAGGGATCTGGTTGATGAAGCAAAGAA  
 GTTTCATCTGAGGCCTGAACTTCGGAGTCAGATGCAGGGACCCAGGACAAGGGCTCGCCTAGGAGCCAAT  
 GAAGTGCCTTTGGTGGTTGGGGCTTTGGAAGCCAGCAGTCTCCCATGATGTGGTAGAGAAATATGACC  
 CCAAGACTCAGGAGTGGAGCTTTTTGCCAAGCATCACTCGTAAGAGACGTTATGTGGCCTCAGTGTCCCT  
 TCATGACCGGATCTACGTCATTGGTGGCTATGATGGCCGTTCCCGCTTAGTTCAGTGGAAATGTCTAGAC  
 TACACAGCAGATGAGGATGGGGTCTGGTATTCTGTGGCCCTATGAATGTCGACGAGGCTTCTGCTGGAG  
 CCACCACCTGGGAGATATGATCTATGTCTCTGGAGGCTTTGATGGAAGCAGGCGTCACACCAGTATGGA  
 CGGCTATGATCCAACATTGACCAGTGGAGCATGCTGGGAGATATGCAGACAGCCCGGAAGGTGCCGGA  
 CTGCTAGTGGCCAGTGGAGTGATCTACTGTCTAGGAGGATATGACGGCTTGAATATCTTAAATTCAGTTG  
 AGAAAACGACCCTCATAACAGGACATTGGACTAATGTTACACCAATGGCCACCAAGCGTTCTGGTGCAGG  
 AGTAGCCCTGCTGAATGACCATATTTATGTGGTGGGGGATTTGATGGTACAGCCACCTTTCTCCGTT  
 GAAGCATACAACATTCGCACTGATTCTGGACAACGTCCACCAGTATGACCACTCCACGATGCTATGTAG  
 GGGCCACAGTGCCTCGGGGAGACTCTATGCAATTGCAGGATATGATGGTAAATCCCTGCTAAGTAGCAT  
 TGAATGTTATGACCCTATCATCGACAGCTGGGAAGTCGTGACATCCATGGGAACCCAGCGCTGTGATGCT  
 GGTGTTTGTGTTCTCCGCGAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200894 representing NM\_021633  
 Red=Cloning site Green=Tags(s)

MGGIMAPKDIMTNTHAKSILNSMNSLRKSNLDCVTLRVEQKDFPAHRIVLAACSDYFCAMFTSELSEK  
 KPYVDIQGLTASTMEILLDFVYTETVHVTVENVQELLPAACLLQLKGVKQACCFLESQLDPSNCLGIRD  
 FAETHNCVDMQAAEVFSQKHFPEVVQHEEFILLSQGEVEKLIKDEIQVDSEEPVFEAVINWVKHAKKE  
 REESLPNLLQYVRMPLLPYRITDVIDAEPFIRCSLQCRDLVDEAKKFHLRPELRSQMGGPRTRARLGN  
 EVLLVVGFGSQSPIDVVEKYDPKTQEWFLPSITRKRRYVASVSLHDRIYVIGGYDGRSRLSSVECLD  
 YTADEGDVWYSVAPMNVRRLAGATTLGDMIYVSGGFDGSRRTSMERYDPNIDQWSMLGDMQTAREGAG  
 LVVASGVYICLGGYDGLNILNSVEKYDPHTGHWTNVTPMATKRSGAGVALLNDHIYVVGFDGTAHLSSV  
 EAYNIRTDSWTTVTSMTPRCYVGATVLRGRLYAIAGYDGNLSLSSIECYDPIIDSWEVVTSMTGQRCD  
 GVCVLRK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_021633

**ORF Size:** 1704 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

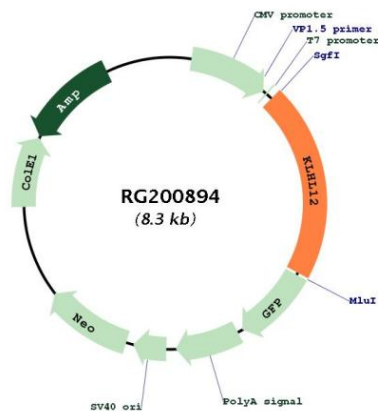
**Reconstitution Method:**

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\\_021633.4](#)  
**RefSeq Size:** 3338 bp  
**RefSeq ORF:** 1707 bp  
**Locus ID:** 59349  
**UniProt ID:** [Q53G59](#)  
**Cytogenetics:** 1q32.1  
**Domains:** BTB, Kelch

**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]

**Product images:**



Circular map for RG200894