

Product datasheet for **SC112907**

C3IP1 (KLHL12) (NM_021633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C3IP1 (KLHL12) (NM_021633) Human Untagged Clone
Tag:	Tag Free
Symbol:	C3IP1
Synonyms:	C3IP1; DKIR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112907 sequence for NM_021633 edited (data generated by NextGen Sequencing)

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ATGGGAGGCATTATGGCCCCAAAGACATAATGACAAATACTCATGCTAAATCCATCCTC
AATTCAATGAACCTCCCTCAGGAAGAGCAATACCCTCTGTGATGTGACATTGAGAGTAGAG
CAGAAAGACTTCCCTGCCATCGGATTGTGCTGGCTGCCTGTAGTGATTACTTCTGTGCC
ATGTTCACTAGTGAGCTCTCAGAGAAGGGGAAACCTTATGTTGACATCCAAGGTTTGACT
GCCTCTACCATGGAAATTTTATTGGACTTTGTGTACACAGAAACGGTACATGTGACAGTG
GAGAAATGTACAAGAACTTCCCTGCAGCCTGTCTGCTTCAGTTGAAAGGTGTGAAACAA
GCCTGCTGTGAGTTCCTAGAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTAGGGAT
TTTGCTGAAACCCACAATTGTGTTGACCTGATGCAAGCAGCTGAGGTTTTTAGCCAGAAG
CATTTTCTGAAGTGGTACAGCATGAAGAGTTCATTCTTCTGAGTCAAGGAGAGGTGGAA
AAGCTAATCAAGTGCACGAAATTCAGGTGGATTCTGAAGAGCCAGTCTTTGAGGCTGTC
ATCAACTGGGTGAAGCATGCCAAGAAAGAGCGGGAAGAATCCTTGCTAACCTGTACAG
TATGTGCGGATGCCCTACTAACCCCAAGTATATCACAGATGTAATAGATGCTGAGCCT
TTCATCCGCTGTAGTTTACAATGCAGGGATCTGGTTGATGAAGCAAAGAAGTTTCATCTG
AGGCCTGAACTTCGGAGTCAGATGCAGGGACCCAGGACAAGGGCTCGCCTAGGAGCCAAT
GAAGTGCTTTTGGTGGTTGGGGGCTTTGGAAGCCAGCAGTCTCCCATGATGTGGTAGAG
AAATATGACCCCAAGACTCAGGAGTGGAGCTTTTTGCCAAGCATCACTCGTAAGAGACGT
TATGTGGCCTCAGTGTCCCTTATGACCGGATCTACGTCAATTGGTGGCTATGATGGCCGT
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TCTGTGGCCCCTATGAATGTCCGACGAGGTCTTGTGGAGCCACCACCCTGGGAGATATG
ATCTATGTCTCTGGAGGCTTTGATGGAAGCAGGCGTCACACCAGTATGGAGCGCTATGAT
CCAAACATTTGACCAGTGGAGCATGCTGGGAGATATGCAGACAGCCGGGAAGGTGCCGGA
CTCGTAGTGGCCAGTGGAGTGATCTACTGTCTAGGAGGATATGACGGCTTGAATATCTTA
AATTTCAGTTGAGAAATACGACCCTCATACAGGACATTGGACTAATGTTACACCAATGGCC
ACCAAGCGTTCTGGTGCAGGAGTAGCCCTGCTGAATGACCATATTTATGTGGTGGGGGA
TTTGATGGTACAGCCACCTTTCTCCGTTGAAGCATAACAATTCGCACTGATTCTCGG
ACAACGTCAACAGTATGACCACTCCACGATGCTATGTAGGGGCCACAGTCTTCGGGGG
AGACTCTATGCAATTGCAGGATATGATGGTAATCCCTGCTAAGTAGCATTGAATGTTAT
GACCCTATCATCGACAGCTGGGAAGTCGTGACATCCATGGGAACCCAGCGCTGTGATGCT
GGTGTGTTGTTCTCCGCGAGAAGTGA
    
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Clone variation with respect to NM_021633.2
1230 g=>a

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_021633 unedited
AGGGCGGGCCGCAATTCGACAGGGTCGCGCGCCGACGGCCAGACCCGGACGGCTC
CAGAGCCTCCAGAGCCTCCGGGTCTGGCGGCGCTTCGGCTCCTCCCAGCCGCCTGCTA
GCCCGCGCCGCACTCCATCCCCACAGGCTGGGGACGGGCCCGGTGCGGCTGTGTGGTT
CGGGAGCGGAGTTGCAGAATCCAAGGACCCATTTTGTCTTTCTCCGCACTGCTTTATGG
GAGGCATTATGGCCCCAAAGACATAATGACAAATACTCATGCTAAATCCATCCTCAATT
CAATGAACCTCCCTCAGGAAGAGCAATACCCTCTGTGATGTGACATTGAGAGTAGAGCAGA
AAGACTTCCCTGCCATCGGATTGTGCTGGCTGCCTGTAGTGATTACTTCTGTGCCATGT
TCACTAGTGAGCTCTCAGAGAAGGGGAAACCTTATGTTGACATCCAAGGTTTGACTGCCT
CTACCATGGAAATTTTATTGGACTTTGTGTACACAGAAACGGTACATGTGACAGTGGAGA
ATGTACAAGAAGTCTTCCCTGCAGCCTGTCTGCTTCAGTTGAAAGGTGTGAAACAAGCCT
GCTGTGAGTTCTTAAAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTANGGGATTTT
GCTGAAACCCACAATTGTGTTGACCTGATGCAAGCAGCTGAGGTTTTTAGCCAGAAGCAT
TTCTGGAAGTGTACAGATGGGAGAGTTCATTCTTCTGATCAGGGAGAGGGTGGAAAGC
TATCAGTGCACGAATAGGTGGATTCTGAGAGCCAGCTTGGGAGCTGTCTCACTGGGT
GAGCATGCCAGAAGAGCGGGAAGAATCTTTGCTACTGCTCGTATGGGGCGGATGCCCTA
CTAACCCAGTTTNAAGATGNAATGATGA
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021633 unedited GGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAGACCGTTGATTTT TAATATTTTCTTAAAAAATACAAAGGAAATTAAGTCTGTAGGTCAATACAACCTCAGGGA AAGAGGGAAAAATGGAATTTTCAGAGCAAAGGTTGTTTAGGTTATCACATCCCACACTCC TAATACCCACAAAACAAGAATTTCACTCCATGACACAGAGGAACATTGAATGGTAGCTCA GAAATGTTGATAGCTGAGGTACTGAACTAACAAAAGGATTTGGTTGTCCTTGATTATT CTGTCCTGTGATGAATAAAATCTACACTAAAGGACAGGTAAGGAAAACTTATAGCAGAAA AAAGACTAGATGTACCAACACAGCAGTACAAACCACTCCTTGGCAGACATGTGCTTCTA AAAGAATGGGGCAGTAATCAGGTAGCTGAACTACTAGGCTACTGTCACTCCCAGCCCATC CCCAAATAAATAGTGTGGAAGTGAATAGTGTAGTAGTATTTGATCCAACAAAGAAAGGC TTTCACCCCCATTCAAGGGCAAACATTGCCATGGCTAGATGAGCCCTGGCAGGTAATAAG ATGACTGTAAAATCACAGGTTCTTCTAGTTTATCCCCAGTTATACTGAACTCCCACATTG ATGTCATCTTCTCTCATCCCAACATTTGGTCACTTTTTATGCTGTCTNCCGTGCGAAAG ACCTCGGGGAAATAAAAAACCTTCAAATAATATACCCTTCTCAGGCTCCAGTTATGT AAACTTCAGTGGTCTAGGTCCTCCCAATCAATTCAGTTAATCACTTAATTCTACT TCAATCTGAAAACAAATCCGACCTCCAAAGAAGGGTCAGAGAGGCTTTTTCCCTGGCCC CAATTTTGGGGGCTCTCCTTTGGTCCCTAAGGGAAGTGTGCCCTCCTCTGTTAT AAAAATGTTGTTCCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_021633
Insert Size:	3380 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_021633.2 , NP_067646.1

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]
Transcript Variant: This variant (2) uses an alternate 5' terminal exon, resulting in a distinct 5' UTR and an in-frame downstream translational start site, compared to variant 1. This results in isoform 2, which has a shorter N-terminus compared to isoform 1.