

Product datasheet for **RC239066**

C3IP1 (KLHL12) (NM_001303051) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C3IP1 (KLHL12) (NM_001303051) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C3IP1
Synonyms:	C3IP1; DKIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239066 representing NM_001303051
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGTGAATAAATTTGAGGCCTCTGTGGGTTTTCTCGATGTCAAAAAGTTCCTCAGTACCTGGAAGT
 TGCAGAATCCAAGGACCCATTTTGTCTTTCTCCGCACTGCTTTATGGGAGGCATTATGGCCCCAAAGA
 CATAATGACAAATACTCATGCTAAATCCATCCTCAATTCAATGAACTCCCTCAGGAAGAGCAATACCCTC
 TGTGATGTGACATTGAGAGTAGAGCAGAAAGACTTCCCTGCCATCGGATTGTGTGGCTGCCTGTAGTG
 ATTACTTCTGTGCCATGTTCACTAGTGAGCTCTCAGAGAAGGGGAAACCTTATGTTGACATCCAAGGTTT
 GACTGCCTCTACCATGGAATTTTATTGGACTTTGTGTACACAGAAACAGTACATGTGACAGTGGAGAAT
 GTACAAGAACTGCTTCTGCAGCCTGTCTGCTTCAGTTGAAAGGTGTGAAACAAGCCTGCTGTGAGTTCT
 TAGAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTAGGGATTTTGTGAAACCCACAATTGTGTTGA
 CCTGATGCAAGCAGCTGAGGTTTTAGCCAGAAGCATTTCCTGAAGTGGTACAGCATGAAGAGTTCATT
 CTTCTGAGTCAAGGAGAGGTGGAAGCTAATCAAGTGCAGCAAAATTCAGGTGGATTCTGAAGAGCCAG
 TCTTTGAGGCTGTCACTAACTGGGTGAAGCATGCCAAGAAAGAGCGGGAAGAATCCTTGCCTAACCTGCT
 ACAGTATGTGCGGATGCCCTACTAACCCCAAGGTATATCACAGATGTAATAGATGCTGAGCCTTTCATC
 CGCTGTAGTTTACAATGCAGGGATCTGGTTGATGAAGCAAAGAAGTTTCATCTGAGGCTGAACTTCGGA
 GTCAGATGCAGGGACCCAGGACAAGGGCTCGCCTAGGAGCCAATGAAGTGCTTTTGGTGGTTGGGGGCTT
 TGAAGCCAGCAGTCTCCATTGATGTGGTAGAGAAATATGACCCCAAGACTCAGGAGTGGAGCTTTTGTG
 CCAAGCATCACTCGTAAGAGACGTTATGTGGCCTCAGTGTCCCTTCATGACCGGATCTACGTCATTGGTG
 GCTATGATGGCCGTTCCCGCCTTAGTTCAGTGAATGTCTAGACTACACAGCAGATGAGGATGGGGTCTG
 GTATTCTGTGGCCCTATGAATGTCCGACGAGGTCTTGCTGGAGCCACCACCTGGGAGATATGATCTAT
 GTCTCTGGAGGCTTTGATGGAAGCAGGCTCACACCAAGTATGGAGCGCTATGATCCAAACATTGACCAGT
 GGAGCATGCTGGGAGATATGCAGACAGCCCGGAAGGTGCCGACTCGTAGTGGCCAGTGGAGTGATCTA
 CTGTCTAGGAGGATATGACGGCTTGAATATCTTAAATTCAGTTGAGAAATACGACCCTCATACAGGACAT
 TGGACTAATGTTACACCAATGGCCACCAAGCGTTCTGGTGCAGGAGTAGCCCTGCTGAATGACCATATTT
 ATGTGGTGGGGGATTTGATGGTACAGCCACCTTCTCCGTTGAAGCATACAACATTCGCACTGATTC
 CTGGACAAGTGTACCAAGTATGACCACTCCACGATGCTATGTAGGGGCCACAGTGCTTCGGGGGAGACTC
 TATGCAATTGCAGGATATGATGGTAATTCCTGCTAAGTAGCATTGAATGTTATGACCCTATCATCGACA
 GCTGGGAAGTCGTGACATCCATGGGAACCCAGCGCTGTGATGCTGGTGTGTTGTCTCCGCGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239066 representing NM_001303051
 Red=Cloning site Green=Tags(s)

MDVNFKEASVGFLDVKKFLSTWKLQNPRTFVLSPHCFMGGIMAPKDIMTNTHAKSILNSMNSLRKSNTL
 CDVTLRVEQKDFPAHRIVLAACSDYFCAMFTSELSEKGPYVDIQGLTASTMEILLDFVYTETVHVTVEN
 VQELLPAACLLQLKGVKQACCFLESQLDPSNCLGIRDFAEHNCDVLMQAAEVFSQKHFPEVVQHEEFI
 LLSQGEVEKLKICDEIQVDSEEPVFEAVINWVKHAKKEREESLPNLLQYVRMPLLTTRYITDVIDAEPFI
 RCSLQCRDLVDEAKKFHLRPELRSQMGPRTARLGANEVLLVGGFGSQSPIDVVEKYDPKTQEWSFL
 PSITRKRRYVASVSLHDRIYVIGGYDGRSRLSSVECLDYADEGWWYSVAPMNVRRGLAGATTLGDMIY
 VSGGFDGSRRTSMERYDPNIDQWSMLGDMQTAREGAGLVVASGVYICLGGYDGLNLSVEKYDPHTGH
 WTNVTPMATKRSGAGVALLNDHIYVVGFDGTAHLSSVEAYNIRTDSWTTVTSMTPRCYVGATVLRGR
 YAIAGYDGNLSLLSSIECYDPIIDSWEVVTSMGTQRCDAGVCVLREK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001303051

ORF Size: 1818 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_001303051.2](#)

RefSeq Size: 3364 bp

RefSeq ORF: 1821 bp

Locus ID: 59349

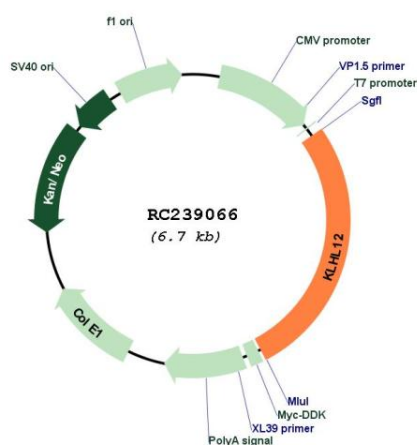
UniProt ID: Q53G59

Cytogenetics: 1q32.1

MW: 68.2 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]

Product images:



Circular map for RC239066