

Product datasheet for **MC221306**

Cul2 (NM_029402) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul2 (NM_029402) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cul2
Synonyms:	1300003D18Rik; 4932411N15Rik; AI327301; mKIAA4106
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221306 representing NM_029402
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTTTAAACCAAGAGTAGTGGATTTTGATGAGACATGGAACAACTCCTAACTACAATCAAAGCTG
 TTGTTATGTTGGAATATGTCGAGCGAGCAACATGGAATGACCGCTTCTCAGATATCTATGCTTTATGTGT
 GGCTATCCTGAACCACTTGGAGAAAGACTTTATGCGGAAACAAAGATTTTTTTGGAAAGTCACGTTTCGG
 CATTGTATAAGAGAGTTCTGGAGTCTGAAGAACAAGTCTTGTATGTATCATAGGTAAGTGGGAAGAAT
 ACAGCAAAGGCGCCGACTATAGGACTGCTTATAGGTATCTCAATACCCAGTATATAAAAAGAATAA
 ATTGACAGAAGCTGATATACAGTATGGCTATGGTGGAGTAGATATGAATGAACCACTTATGGAAATAGGA
 GAGCTAGCATTGGATATGTGGAGGAAGTAAATGGTTGAACCCCTCAGAACATCCTCATCCGGATGCTGC
 TTCGAGAAATTAATAATGATCGTGGTGGTGAAGATCCAAACCAGAAAGTAAATCCATGGGGTTATTAAGT
 CTTTGTTCATGTTGAACAGTATAAGAAAAATTTCCCTTAAAGTTTTATCAGGGAATATTCGTGTCTCCC
 TTTCTGACTGAAACGGGAGAATATTACAAGCAAGAAGCTTCAAATTTATTACAAGAAATCAAATGTTTCAC
 AGTATATGGAAAAGGTTCTAGGTAGATTAAGAAATGAAGAAATAGATGTCGAAAATATTTGCATCCAAG
 TTCATATACTAAAGTGATTATGAGTGTGACGACGGATGGTAGCAGACCACTTACAGTTCTTACATTCA
 GAGTGCCACAGCATCATTAGCAAGAGAGGAAGAACGACATGGCAAAATATGTACGCTTACTCCGTGCTG
 TGTCACAGTGGTTACCTCATATGATTGAGGAGCTGCAGAAACATATCCATGACGAGGGCCTCAGAGCGAC
 CAGTAACCTTACTCAGGAACATATGCCAACACTATTTGTGGAATCAGTTTTGGAAGTACATGGTAAATTC
 GTTCAACTTATCAACACTGTTTTGAATGGTGTGATCAGCATTATGAGTGCCTTAGATAAGGCCCTTACAT
 CTGTTGTAATACAGAGAACCAGTCTGTTTGCAGGAGGCTGAACTGCTTGAAGTACTGTGACAA
 CTTGCTAAAGAAGTCAGCGAAGGGGATGACTGAAAATGAAGTGGAGGACAAGCTCACTAGCTTCATCACA
 GTTTTCAAGTACATTGATGACAAGGACGCTTTTCAAGATTCTATGCAAGAATGCTAGCAAAACGCTTAA
 TTCACGGGTTGTCTATGTCTATGGATTCTGAAGAAGCCATGATCAATAAATTAAGCAAGCCTGTGGTTA
 TGAGTTTACCAGCAAGCTGCATCGAATGTATACAGACATGAGTGTGACGCTGATTTGAACAATAAGTTC
 AACAAATTCATCAGAAACCAAGACACCGTGATTGACTTGGGGATTAGTTTCCAAATATATGTTCTTCAGG
 CTGGTGCCTGCTCCTCACTCAGGCTCCTTCTATCTACATTTGCAATCCCAAGAGCTAGAGAAAAGTGT
 ACAGATGTTTGAATTGTTTTATAGCCAGCATTTCAGTGGACGGAAGCTGACATGGTTGCATTATCTCTGT
 ACAGGTGAAGTTAAAATGAACTATTTGGGAAAACCATATGTAGCTATGGTTACAACCTACCAATGGCAG
 TTCTTCTTGCCTTAACAACAGTAAACTGTGAGTACAAGAAGCTTCAAGACAGTACCCAGATGAATGA
 AAAGGAGCTGACCAAAACAATCAAATCATTACTTGATGTGAAAATGATTAACCATGATTCAGAAAAGGAA
 GATATCGATGCAGAACTTTCATTTTCAATTAATATGAGCTTACAGCAGTAAGAGAACAAAATTAAGATTA
 CTACGTCAATGCAGAAGGATACGCCACAAGAAGTGAACAGACTAGAAGTGTGTAGATGAGGACCGGAA
 AATGTATCTTCAAGCTGCTATTGTCCGCATCATGAAAGCACGAAAAGTGTTCGGCACAACGCCCTCATT
 CAAGAGGTAATCAGCCAGTCAAGAGCCAGGTTCAATCCCAGTATCAGCATGATTAAGAAGTGCATAGAAG
 TTCTGATAGACAAACAGTACATCGAGCGCAGCCAAGCATCTGCAGATGAATACAGTTACGTCGCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029402

Insert Size: 2238 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_029402.3, NP_083678.2</u>
RefSeq Size:	4158 bp
RefSeq ORF:	2238 bp
Locus ID:	71745
UniProt ID:	<u>Q9D4H8</u>
Cytogenetics:	18 A1
Gene Summary:	<p>Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins. ECS complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (By similarity). May serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1 (By similarity). The functional specificity of the ECS complex depends on the substrate recognition component. ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF) (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>