

Product datasheet for **MR210430**

Cul2 (BC026779) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul2 (BC026779) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cul2
Synonyms:	1300003D18Rik; 4932411N15Rik; AI327301; mKIAA4106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210430 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCSTTTAAAACCAAGAGTAGTGGATTTTGTAGACATGGAACAAACTCCTAACTACAATCAAAGCTG
 TTGTTATGTTGGAATATGTCGAGCGAGCAACATGGAATGACCGCTTCTCAGATATCTATGCTTTATGTGT
 GGCTATCCTGAACCACTTGGAGAAAGACTTTATGCGGAAACAAAGATTTTTTTGGAAAGTCACGTTTCGG
 CATTGTATAAGAGAGTTCTGGAGTCTGAAGAACAAGTCTTGTATGTATCATAGGTAAGTGGGAAGAT
 ACAGCAAAGGCGCCGACTATATGGACTGCTTATATAGGTATCTCAATACCCAGTATATTAAGAAATAA
 ATTGACAGAAGCTGATATACAGTATGGCTATGGTGGAGTAGATATGAATGAACCACTTATGGAAATAGGA
 GAGCTAGCATTGGATATGTGGAGGAAGTAAATGGTTGAACCCCTCAGAACATCCTCATCCGGATGCTGC
 TTCGAGAAATTAAGATGATCGTGGTGGTGAAGATCCAAACCAGAAAGTAAATCCATGGGGTTATTAAGTC
 CTTTGTTCATGTTGAACAGTATAAGAAAAATTTCCCTTAAAGTTTTATCAGGGAATATTCGTGTCTCCC
 TTTCTGACTGAAACGGGAGAATATTACAAGCAAGAAGCTTCAAATTTATTACAAGAAATCAAATGTTTCAC
 AGTATATGGAAAAGGTTCTAGGTAGATTAAGAAATGAAGAAATAGATGTCGAAAATATTTGCATCCAAG
 TTCATATACTAAAGTGATTATGAGTGTGACGACGGATGGTAGCAGACCACTTACAGTTCTTACATTCA
 GAGTGCCACAGCATCATTAGCAAGAGAGGAAGAACGACATGGCAAAATATGTACGCTTACTCCGTGCTG
 TGTCCAGTGGTTACCTCATATGATTGAGGAGCTGCAGAAACATATCCATGACGAGGGCCTCAGAGCGAC
 CAGTAACCTTACTCAGGAACATATGCCAACACTATTTGTGGAATCAGTTTTGGAAGTACATGGTAAATTC
 GTTCAACTTATCAACACTGTTTTGAATGGTGTATCAGCATTTTATGAGTGTCTTAGATAAGGCCCTTACAT
 CTGTGTAATTAACAGAGAACCAAGTCTGTTTGGAAAGCGCTGAACTGCTTGAAGTAACTGTGACAA
 CTTGCTAAAGAAGTCAGCGAAGGGGATGACTGAAAATGAAGTGGAGGACAAGCTCACTAGCTTATCACA
 GTTTTCAAGTACATTGATGACAAGGACGCTTTTCAAGTCTATGCAAGAATGCTAGCAAAACGCTCTAA
 TTCACGGTGTCTATGTCTATGGATTCTGAAGAAGCCATGATCAATAAATTAAGCAAGCCTGTGGTTA
 TGAGTTTACCAGCAAGCTGCATCGAATGTATACAGACATGAGTGTGACGCTGATTTGAACAATAAGTTC
 AACAAATTCATCAGAAACCAAGACACCGTATTGACTTGGGGATTAGTTTCCAAATATATGTTCTTCAGG
 CTGGTGCCTGCTCACTCAGGCTCCTTCTATCTACATTTGCAATTCCTCAAGAGCTAGAGAAAAGTGT
 ACAGATGTTTGAATGTTTTATAGCCAGCATTTCAGTGGACGGAAGCTGACATGGTTGCATTATCTCTGT
 ACAGGTGAAGTAAAATGAACTATTTGGGAAAACCATACGTAGCTATGGTTACAACCTACCAATGGCAG
 TTCTTCTTGCCTTAAACAACAGTAAACTGTGAGTACAAGAACTTCAAGACAGTACCCAGATGAATGA
 AAAGGAGCTGACCAAAACAATCAATCATTACTTGATGTGAAAATGATTAACCATGATTCAGAAAAGGAA
 GATATCGATGCAGAACTTTCATTTTCAATTAATATGAGCTTACAGCAGTAAGAGAACAAAATTAAGATTA
 CTACGTCAATGCAGAAGGATACGCCACAAGAACTGGAACAGACTAGAAGTGTGTAGATGAGGACCGGAA
 AATGTATCTTCAAGCTGCTATTGTCCGCATCATGAAAGCACGAAAAGTGTTCGGCACAAACGCCCTCATT
 CAAGAGGTAATCAGCCAGTCAAGAGCCAGGTTCAATCCCAGTATCAGCATGATTAAGAAGTGCATAGAAG
 TTCTGATAGACAAACAGTACATCGAGCGCAGCCAAGCATCTGCAGATGAATACAGTTACGTCGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

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: [BC026779](#), [AAH26779](#)

RefSeq Size: 2765 bp

RefSeq ORF: 2237 bp

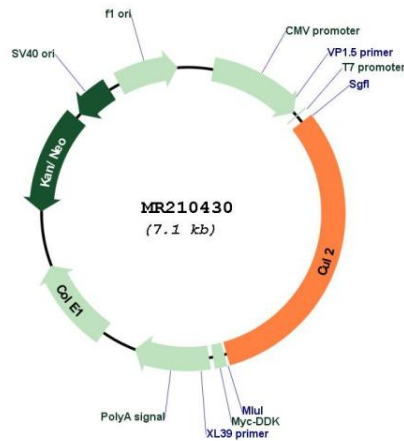
Locus ID: 71745

Cytogenetics: 18 A1

MW: 86.9 kDa

Gene Summary: 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]

Product images:



Circular map for MR210430