

Product datasheet for **MC222170**

Cul5 (NM_027807) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul5 (NM_027807) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cul5
Synonyms:	4921514I20Rik; 8430423K24Rik; AI852817; C030032G03Rik; C330021I08Rik; VACM-1; VACM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222170 representing NM_027807
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCTCTCTCGCGTGGCAGGCCGGGTGACCATGTAGCTGGAAGCCCGAGGAAGCACGGCTGCCCG
 GGACGAGCTCGGCGCTGACGGCACGCCGCTCCGGCGTCCCCGCATCCCCCGCCGCGCCTGCGGGGTCC
 TGCTGGGAACCCCGCCTCTCGAGGAGGCTGGCCCCGAGCGCCCAAGTCTCGCCCCGCTCTCGGAGA
 GTCCAAGTTGAGAACATGGCGACGTCTAATCTGTTAAAGAATAAAGTTCTCTCCAGTTTGAAGACAAGT
 GGGACTTCATGCATCCAATTGTTTTGAAGCTTTTACGCCAGGAATCTGTAACAAAACAGCAGTGGTTTGA
 TCTATTTTCGGATGTACATGCTGTCTGTCTCTGGGATGATAAAGGCTCATCAAAAATTCATCAGGCTTTA
 AAAGAAGATATTCTTGAGTTTATTAAGCAAGCACAGGCTCGTGTACTGAGCCATCAAGATGACACAGCTT
 TGCTGAAGGCATATATTGTTGAATGGCGGAAATCTTCCACACAGTGTGATATTTTACAAAACCTTTTTG
 TCAATTAGAGGTGACTCTATTGGGTAACAAAAGCAGCAATAAAAAATCAAATATGGAAGACAGTATTGTT
 CGAAAGCTCATGCTTGATACGTGGAATGAGTCGATTTTTTCAAATATAAAGAACAGACTCCAGGACAGTG
 CAATGAAGCTGGTGCATGCTGAGAGATTAGGGGAAGCTTTTGATTCCCAGCTGGTCATCGGGGTGCGAGA
 GTCCTATGTTAATCTTTGCTCCAACCCCGAGGACAAGCTTCAGATCTATAGGGATAATTTTGAAGAGCA
 TACTTGGACTCAACAGAGAGGTTTTATAGAACACAGGCACCCTCATATTTACAGCAAAAATGGTGTGCGA
 ATTACATGAAATATGCAGATGCTAAATTAAGAAAGAAAGAAAAAGAGCACTCCGATACTTAGAAACACG
 ACGAGAGTGAACCTGTGGAAGCACTCATGGAATGCTGTGTAATGCGCTGGTACCTCCTTTAAAGAG
 ACTATTTTAGCAGAATGCCAAGGCATGATCAAGCGAAATGAACTGAAAAGTTACATTTGATGTTTTCT
 TGATGGACAAAGTTCCTAATGGGATAGAGCCGATGTTGAAGGACTTGGAGGAGCATATTATAAGTCCGGG
 CCTAGCAGACATGGTGGCCGAGCTGAAACCATCACTACTGACTCTGAGAAGTATGTGGAGCAATTACTT
 ACACTGTTAATAGATTAGTAACTGGTCAAAGAAGCTTTTCAGGATGATCCTCGTTTCTTACTGCAA
 GAGATAAGGCATATAAAGCAGTTGTTAATGATGCTACTATATTTAACTGAATTGCCTTTGAAGCAAAA
 AGGAGTGGGGTTGAAAACCTCAGCCTGAGTCAAAAATGCCCGAGTTGCTTGCCAATTACTGTGACATGTTG
 TTAAGGAAAACGCCATTAAGCAAAAACCTAACATCTGAGGAGATTGAAGCAAAGCTTAAAGAAGTCTCT
 TGGTACTTAAATATGTACAAAACAAAGATGTTTTATGAGGTATCACAAGCTCATCTTACCCGACGCTCT
 CATATTGGACATCTCTGCTGATAGTGAAGAAAACATGGTAGAGTGGCTAAGAGAAGTTGGTATG
 CCAGCAGATTATGTGAACAAGCTTGTGTAAGTGTTCAGGACATAAAAGTATCTGAAGACTTGAACCAAG
 CTTTTAAGGAAAATGCACAAAAATAAAGTTGGCATTACCAGCTGATTCCGTTAATAAAGATTTTGAA
 TGCTGGTCTGTTGCTAGAAAGCTCCGAGAAAGTCTTTGTCTCACTTCTACTGAACTGGAGGATTTGATA
 CCTGAAGTAGAAGATTTTACAAAAAAAATCACAGTGGTAGAAAATTAACACTGGCACCATCTCATGTCAA
 ATGGAATTATAACATTTAAAAATGAAGTAGGTCAGTATGATTTGGAAGTAACCACGTTTCAGTTGGCTGT
 GTTGTTCGATGGAACCAAGGCCTAGAGAGAAAATCAGCTTTGAAAATCTAAAACCTTGCACGGAACCTC
 CCAGATGCTGAACCTAGAAGGACTTTATGGTCTTTAGTAGCTTTTCCCAAGCTCAAACGGCAAGTTTGT
 TGTATGACCTCAAGTCAACTCACCCAAAGATTTTACAGAAGGCACCCTCTTCTCAGTGAACCAGGACTT
 CAGTCTCATAAAAAATGCAAAAAGTACAGAAAAGGGGAAAAATCAATTTGATTGGACGCTTGCAGCTCACT
 ACAGAACGAATGAGAGAAGAAGAAAATGAAGGGATAGTCCAACCTAAGAATATTAAGAACCAGGAAGCCA
 TCATACAAATAATGAAAATGAGAAAAGAAAATTAGCAATGCCAGCTGCAGACTGAATTAGTGAAAATCT
 GAAAAACATGTTCTGCCTCAGAAGAAGATGATAAAGGAGCAGATGGAGTGGCTGATTGAACACAGGTAC
 ATCCGGAGGGACGAGGCCGACATCAACACCTTCATCTACATGGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_027807
Insert Size: 2568 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:	NM_027807.3 , NP_082083.2
RefSeq Size:	6023 bp
RefSeq ORF:	2568 bp
Locus ID:	75717
UniProt ID:	Q9D5V5
Cytogenetics:	9 A5.3
Gene Summary:	<p>Core component of multiple SCF-like ECS (Elongin BC-Cullin 2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. ECS(SOCS1) seems to direct ubiquitination of JAK2. Seems to be involved in proteasomal degradation of p53/TP53 stimulated by adenovirus E1B-55 kDa protein. May form a cell surface vasopressin receptor.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>