

Product datasheet for **MC221880**

Cul5 (NM_001161618) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul5 (NM_001161618) 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: >MC221880 representing NM_001161618
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCTCTCTCGCGTGGCAGGCCGGGTGACCATGTAGCTGGAAAGCCCGAGGAAGCACGGCTGCCCG
 GGACGAGCTCGGCGCTGACGGCACGCCGCTCCGGCGTCCCCCGCATCCCCCGCCGCGCCTGCGGGTCC
 TGCTGGGAACCCCGCCTCTCGAGGAGGCTGGCCCCGAGCGCCGCAAGTCTCGCCCCGCTCTCGGAGA
 GTCCAAGTTGAGAACATGGCGACGTCTAATCTGTTAAAGAATAAAGTTCTCTCCAGTTTGAAGACAAGT
 GGGACTTCATGCATCCAATTGTTTTGAAGCTTTTACGCCAGGAATCTGTAACAAAACAGCAGTGGTTTGA
 TCTATTTTCGGATGTACATGCTGTCTGTCTCTGGGATGATAAAGGCTCATCAAAAATTCATCAGGCTTTA
 AAAGAAGATATTCTTGAGTTTATTAAGCAAGCACAGGCTCGTGTACTGAGCCATCAAGATGACACAGCTT
 TGCTGAAGGCATATATTGTTGAATGGCGGAAATCTTCCACACAGTGTGATATTTTACAAAACCTTTTTG
 TCAATTAGAGGTGACTCTATTGGGTAACAAAGCAGCAATAAAAAATCAAATATGGAAGACAGTATTGTT
 CGAAAGCTCATGCTTGATACGTGGAATGAGTCGATTTTTTCAAATATAAAGAACAGACTCCAGGACAGTG
 CAATGAAGCTGGTGCATGCTGAGAGATTAGGGGAAGCTTTTGATTCCCAGCTGGTCATCGGGGTGCGAGA
 GTCCTATGTTAATCTTTGCTCCAACCCCGAGGACAAGCTTCAGATCTATAGGGATAATTTTGAAGGCA
 TACTTGGACTCAACAGAGAGGTTTTATAGAACACAGGCACCCTCATATTTACAGCAAAAATGGTGTGAGA
 ATTACATGAAATATCTCATGGAATGCTGTGTAATGCGCTGGTGACCTCCTTTAAAGAGACTATTTTAGC
 AGAATGCCAAGGCATGATCAAGCGAAATGAAACTGAAAAGTTACATTTGATGTTTTCTTGATGGACAAA
 GTTCTTAATGGGATAGAGCCGATGTTGAAGGACTTGGAGGAGCATATTATAAGTGGCGGCCATGACAGACA
 TGGTGGCCGAGCTGAAACCATCACTGACTGAGAAAGTGTGAGCAATTAAGTGGAGCAATTAAGTGGAGCA
 TAGATTACAGTAAACTGGTCAAAGAAGCTTTTTCAGGATGATCCTCGTTTCTTACTGCAAGAGATAAGGCA
 TATAAAGCAGTTGTTAATGATGCTACTATATTTAAACTTGAATTGCCTTTGAAGCAAAAAGGAGTGGGT
 TGAAAACTCAGCTGAGTCAAAAATGCCCGAGTTGCTTGCCAATTAAGTGTGACATGTTGTTAAGGAAAAAC
 GCCATTAAGCAAAAAACTAACATCTGAGGAGATTGAAGCAAAAGCTTAAAGAAGTGTCTTGGTACTTAAA
 TATGTACAAAACAAGATGTTTTTATGAGGTATCACAAGCTCATCTTACCCGACGTCTCATATTGGACA
 TCTCTGCTGATAGTGAGATTGAAGAAAACATGGTAGAGTGGCTAAGAGAAGTTGGTATGCCAGCAGATTA
 TGTGAACAAGCTTGTAGAAATGTTTCAGGACATAAAAAGTATCTGAAGACTGAACCAAGCTTTTAAGGAA
 ATGCACAAAAATAATAAGTTGGCATTACCAGCTGATTCCGTTAATAAAGATTTTGAATGCTGGTGGCTT
 GGTCTAGAAGCTCCGAGAAAGTCTTTGTCTCACTTCTACTGAACTGGAGGATTTGATACCTGAAGTAGA
 AGAATTTTACAAAAAAATCACAGTGGTAGAAAATTAAGTGGCACCATCTCATGTCAAATGGAATTATA
 ACATTTAAAAATGAAGTAGGTAGTATGATTTGGAAGTAAACCAGTTTTCAGTTGGCTGTGTTGTTTGCAT
 GGAACCAAGGCCTAGAGAGAAAATCAGCTTTGAAAATCTAAAACCTGCAACGGAACCTCCAGATGCTGA
 ACTTAGAAGGACTTTATGGTCTTTAGTAGCTTTTCCCAAGCTCAAACGGCAAGTTTTGTTGTATGACCT
 CAAGTCAACTACCCAAAGATTTTACAGAAGGCACCCTCTTCTCAGTGAACCAAGGACTTCAAGTCTCATAA
 AAAATGCAAAAAGTACAGAAAAGGGGAAAATCAATTTGATTGGACGCTTGCAGCTCACTACAGAACGAAT
 GAGAGAAGAAGAAAATGAAGGGATAGTCCAATAAGAATTAAGAACCAGGAAGCCATCATAACAATA
 ATGAAAATGAGAAAAGAAAATTAGCAATGCCAGCTGCAGACTGAATTAAGTAAAGTCTGAAAAACATGT
 TCTGCTCAGAAAGATGATAAAGGAGCAGATGGAGTGGCTGATTGAACACAGGTACATCCGGAGGGA
 CGAGGCCGACATCAACACCTTCTACATGGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001161618
Insert Size: 2487 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_001161618.1</u> , <u>NP_001155090.1</u>
RefSeq Size:	5942 bp
RefSeq ORF:	2487 bp
Locus ID:	75717
UniProt ID:	<u>Q9D5V5</u>
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 (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>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>