

Product datasheet for **MR210611**

Cul5 (NM_027807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul5 (NM_027807) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR210611 representing NM_027807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCTCTCTCGCGTGGCAGGCCGGGTGACCATGTAGCTGGAAAGCCCGAGGAAGCACGGCTGCCCG
 GGACGAGCTCGGCGCTGACGGCACGCCGCTCCGGCGTCCCCGCATCCCCCGCCGCGCCTGCGGGGTCC
 TGCTGGGAACCCCGCCTCTCGAGGAGGCTGGCCCCGAGCGCCCAAGTCTCGCCCCGCTCTCGGAGA
 GTCCAAGTTGAGAACATGGCGACGTCTAATCTGTTAAAGAATAAAGTTCTCTCCAGTTTGAAGACAAGT
 GGGACTTCATGCATCCAATTGTTTTGAAGCTTTTACGCCAGGAATCTGTAACAAAACAGCAGTGGTTTGA
 TCTATTTTCGGATGTACATGCTGTCTGTCTCTGGGATGATAAAGGCTCATCAAAAATTCATCAGGCTTTA
 AAAGAAGATATTCTTGAGTTTATTAAGCAAGCACAGGCTCGTGTACTGAGCCATCAAGATGACACAGCTT
 TGCTGAAGGCATATATTGTTGAATGGCGGAAATCTTCCACACAGTGTGATATTTTACAAAACCTTTTTG
 TCAATTAGAGGTGACTCTATTGGGTAACAAAGCAGCAATAAAAAATCAAATATGGAAGACAGTATTGTT
 CGAAAGCTCATGCTTGATACGTGGAATGAGTCGATTTTTTCAAATATAAAGAACAGACTCCAGGACAGTG
 CAATGAAGCTGGTGCATGCTGAGAGATTAGGGGAAGCTTTTGATTCCCAGCTGGTCATCGGGGTGCGAGA
 GTCCTATGTTAATCTTTGCTCCAACCCCGAGGACAAGCTTCAGATCTATAGGGATAATTTTGAAGAGCA
 TACTTGGACTCAACAGAGAGGTTTTATAGAACACAGGCACCCTCATATTTACAGCAAAAATGGTGTGCGA
 ATTACATGAAATATGCAGATGCTAAATTAAGAAAGAAAGAAAAAGAGCACTCCGATACTTAGAAACACG
 ACGAGAGTGAACCTGTGGAAGCACTCATGGAATGCTGTGTAATGCGCTGGTACCTCCTTTAAAGAG
 ACTATTTTAGCAGAAATGCCAAGGCATGATCAAGCGAAATGAACTGAAAAGTTACATTTGATGTTTTCT
 TGATGGACAAAGTTCCTAATGGGATAGGCCGATGTTGAAGGACTTGGAGGAGCATATTAAGTGCAGGG
 CCTAGCAGACATGGTGGCCGAGCTGAAACCATCACTACTGACTCTGAGAAGTATGTGGAGCAATTA
 ACTACTGTTAATAGATTAGTAACTGGTCAAAGAAGCTTTTTCAGGATGATCCTCGTTTCTTACTGCAA
 GAGATAAGGCATATAAAGCAGTTGTTAATGATGCTACTATATTTAACTGAATTGCCTTTGAAGCAAAA
 AGGAGTGGGGTTGAAAACCTCAGCCTGAGTCAAAAATGCCCGAGTTGCTTGCCAATTA
 TACTGTGACATGTTGTTAAGGAAAACGCCATTAAGCAAAAACCTAACATCTGAGGAGATTGAAGCAAAGCTTAAAGAAAGTCTCT
 TGGTACTTAAATATGTACAAAACAAAGATGTTTTATGAGGTATCACAAGCTCATCTTACCCGACGCTCT
 CATATTGGACATCTCTGCTGATAGTGAAGTGAAGAAAACATGGTAGAGTGGCTAAGAGAAGTTGGTATG
 CCAGCAGATTATGTGAACAAGCTTGGCTAGAATGTTTCAGGACATAAAAGTATCTGAAGACTTGAACCAAG
 CTTTTAAGGAAAATGCACAAAAATAAAGTTGGCATTACCAGCTGATTCCGTTAATATAAAGATTTTGAA
 TGCTGGTCTTGGTCTAGAAGCTCCGAGAAAGTCTTTGTCTCACTTCTACTGAACTGGAGGATTTGATA
 CCTGAAGTAGAAGATTTTACAAAAAAAATCACAGTGGTAGAAAATTA
 CACTGGCACCATCTCATGTCAAATGGAATTATAACATTTAAAAATGAAGTAGGTCAGTATGATTTGGAAGTAA
 CCACGTTTCAGTTGGCTGTGTTGTTGCATGGAACCAAGGCCTAGAGAGAAAATCAGCTTTGAAAATCTAAA
 ACTTGCACCGAACTCCAGATGCTGAACCTAGAAGGACTTTATGGTCTTTAGTAGCTTTTCCCAAGCTCAA
 ACGGCAAGTTTGTGATGACCTCAAGTCAACTCACCCAAAGATTTTACAGAAGGCACCCTCTTCTCAGTGA
 ACCAGGACTCAGTCTCATAAAAAATGCAAAAAGTACAGAAAAGGGGAAAAATCAATTTGATTGGACGCTT
 GCAGCTACTACAGAACGAATGAGAGAAGAAAGAAAATGAAGGGATAGTCCA
 ACTAAGAATATTAAGAACCAGGAAGCCATCATA
 CAAATAATGAAAATGAGAAAAGAAAATTAGCAATGCCAGCTGCAGACTGAATTAGT
 AGAAATTTCTGAAAAACATGTTCTGCCTCAGAAGAAGATGATAAAGGAGCAGATGGAGTGGCTGATTGA
 ACACAGGTACATCCGAGGGACGAGGCCGACATCAACACCTTCATCTACATGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210611 representing NM_027807
 Red=Cloning site Green=Tags(s)

MRS^{LA}WAGR^{GD}HVAGKPEEARLPGTSSALTARRSGVPRIPRRGLRGPAGNPGLSRRPGPERRQVSPRLAR
 VQVENMATS^{NLL}KNK^{GSL}QFEDK^{WDF}MHP^{IVL}KLLRQESVTKQ^{QW}FDL^{FSD}VHAVCLWDDK^{GSS}KIHQAL
 KEDILEFIKQAQARVLSHQDDTALLKAYIVEWRKFF^{TQ}CDILPK^{FC}QLEVTLLGKQSSN^{KSN}MEDSIV
 RKLMLDTWNESIFSNIKNRLQDSAMKLVHAERLGEAFDSQLVIGVRESYVNLCSNPEDKLQIYRDNFEKA
 YLDSTERFYRTQAPSYLQQNGVQNYMKYADAKLKEEEKRALRYLETRRECN^{SVEAL}MECCV^{NAL}VTSFKE
 TILAECQGMIKRNETEKLHLMFSLMDKVPNGIEPMLKDLEEHIIISAGLADMVAAAETIT^{TD}SEKYVEQ^{LL}
 TLFN^{RS}SKLVKEAFQDDPRFLTARDKAYKAVVNDATIFKLELPLKQKGVGLKTQ^{PES}KCELLANYCDML
 LRK^{TPL}SKKLTSEEIEAKLKEVLLVLKYVQNKDVFMR^{YH}KAHLTRRLILD^{ISAD}SEIEEN^{MVE}WLRE^{VGM}
 PADYV^{NKL}ARMFQDIK^{VSE}DLNQA^{FKEM}HKNNK^{LAL}PADSVNIKILNAGAWSRSSEK^{VFV}SLPTELEDLI
 PEVEEFYKKNHSGRKLHWHHLSNGIITFKNEVGQYDLEVTTFQLAVLFAWNQ^{RP}REKISFENLKLATEL
 PDAELRRTLWSLVA^{FP}PKLRQVLLYDPQVNSPKDFTEGTLFSVNQDFSLIKNAK^{VQ}KRGKINLIGRLQLT
 TERMREEENEGIVQLRILRTQEAIQIMKMRKKISNAQLQTELVEILKNMFLPQKKMIKEQMEW^{LIE}HRY
 IRRDEADINTFIYMA

TRTRPLE^{QKL}ISEEDLAANDILDYKDDDDK^V

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

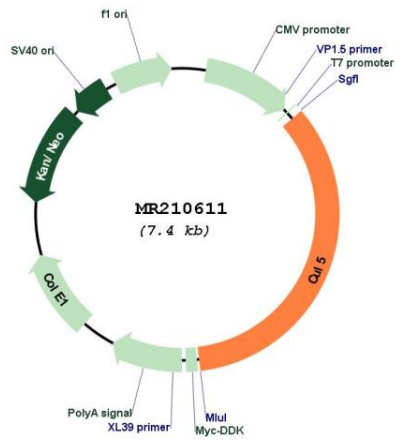
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_027807
ORF Size:	2565 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:	<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
MW:	99.5 kDa
Gene Summary:	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]

Product images:



Circular map for MR210611