

Product datasheet for **MG210611**

Cul5 (NM_027807) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cul5 (NM_027807) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Cul5 |
| Synonyms: | 4921514I20Rik; 8430423K24Rik; AI852817; C030032G03Rik; C330021I08Rik; VACM-1; VACM1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG210611 representing NM_027807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCTCTCTCGCGTGGCAGGCCGGGTGACCATGTAGCTGGAAAGCCCGAGGAAGCACGGCTGCCCG
 GGACGAGCTCGGCGCTGACGGCACGCCGCTCCGGCGTCCCCCGCATCCCCCGCCGCGCCTGCGGGGTCC
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 CCTAGCAGACATGGTGGCCGAGCTGAAACCATCACTACTGACTCTGAGAAGTATGTGGAGCAATTA
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 CATATTGGACATCTCTGCTGATAGTGAAGAAAACATGGTAGAGTGGCTAAGAGAAGTTGGTATG
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 GAAAAACATGTTCTGCCTCAGAAGAAGATGATAAAGGAGCAGATGGAGTGGCTGATTGAACACAGGTAC
 ATCCGGAGGGACGAGGCCGACATCAACACCTTCATCTACATGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210611 representing NM_027807
 Red=Cloning site Green=Tags(s)

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M R S L A W A G R G D H V A G K P E E A R L P G T S S A L T A R R S G V P R I P R R G L R G P A G N P G L S R R P G P E R R Q V S P R L A R
V Q V E N M A T S N L L K N K G S L Q F E D K W D F M H P I V L K L L R Q E S V T K Q Q W F D L F S D V H A V C L W D D K G S S K I H Q A L
K E D I L E F I K Q A Q A R V L S H Q D D T A L L K A Y I V E W R K F F T Q C D I L P K P F C Q L E V T L L G K Q S S N K K S N M E D S I V
R K L M L D T W N E S I F S N I K N R L Q D S A M K L V H A E R L G E A F D S Q L V I G V R E S Y V N L C S N P E D K L Q I Y R D N F E K A
Y L D S T E R F Y R T Q A P S Y L Q Q N G V Q N Y M K Y A D A K L K E E E K R A L R Y L E T R R E C N S V E A L M E C C V N A L V T S F K E
T I L A E C Q G M I K R N E T E K L H L M F S L M D K V P N G I E P M L K D L E E H I I S A G L A D M V A A A E T I T T D S E K Y V E Q L L
T L F N R F S K L V K E A F Q D D P R F L T A R D K A Y K A V V N D A T I F K L E L P L K Q K G V G L K T Q P E S K C P E L L A N Y C D M L
L R K T P L S K K L T S E E I E A K L K E V L L V L K Y V Q N K D V F M R Y H K A H L T R R L I L D I S A D S E I E E N M V E W L R E V G M
P A D Y V N K L A R M F Q D I K V S E D L N Q A F K E M H K N N K L A L P A D S V N I K I L N A G A W S R S S E K V F V S L P T E L E D L I
P E V E E F Y K K N H S G R K L H W H H L M S N G I I T F K N E V G Q Y D L E V T T F Q L A V L F A W N Q R P R E K I S F E N L K L A T E L
P D A E L R R T L W S L V A F P K L K R Q V L L Y D P Q V N S P K D F T E G T L F S V N Q D F S L I K N A K V Q K R G K I N L I G R L Q L T
T E R M R E E E N E G I V Q L R I L R T Q E A I I Q I M K M R K K I S N A Q L Q T E L V E I L K N M F L P Q K K M I K E Q M E W L I E H R Y
I R R D E A D I N T F I Y M A
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



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:

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

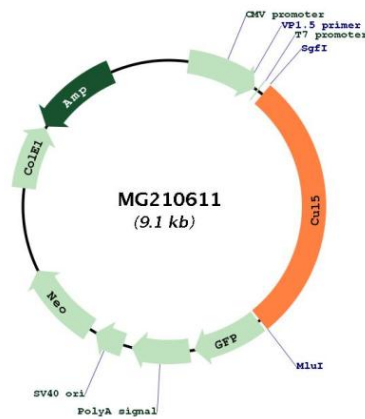
Locus ID: 75717

UniProt ID: [Q9D5V5](#)

Cytogenetics: 9 A5.3

Gene Summary: 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 MG210611