

## Product datasheet for **MR230571**

### **Flcn (NM\_001271357) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Flcn (NM_001271357) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flcn
Synonyms:	AU014660; B430214A04Rik; Bhd; FLCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230571 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACGCCATAGTCGCCCTCTGCCACTTCTGCGAGCTCCATGGCCCCGCAGCTCTTCTGCACGGAAG  
 TTCTACACGCTCCCTGCCCCAGGGGGCCGGAAGTGGGGACAGTCTGACCAGGTTGAGCAGGCTGAGGA  
 GGAGGAGGTGGCATTAGATGAGCAGCCGGTCCGTGCCACAGCCAGCCGAGGGTGCCAGCAGTGAG  
 TCCAGCAGCCCGGGGCCAAGAAGTCGGACATGTGTGAGGGCTGCCGGTCACTTGCCGTAGGGCACCCAG  
 GCTATATCAGTCATGATAAAGAGACCTCTATTAAGTACGTCAGTCACCAGCACCCCAACCACCCGAGCT  
 CTTCAGCATCGTCCGACGGCTGTGTCCGAGCCTGAGCTGTGAGGTATGCCCTGGTGTGAAAGCCCC  
 ATCTTCTTTGGTATGAGCAGCACGGCTTTGTGTTACGCCACACCTTCTCATCAAAGACAGCCTGGCCA  
 GAGGCTTCCAGCGCTGGTACAGCATCATGCCATCATGATGGATCGGATCTACCTCATCAACTCCTGGCC  
 CTTCTGTGGGAGGATCCGCGCATCATCAGTGTGAGCTCCAGGCCAAGGCTTCAAGGTGTTTGGGCA  
 GAGCAGTTTGGATGTCCACAGCTGCCAGAGGATGAACACTGCCTTACGCCCTTCTGCACCAGAGGA  
 ACGGCAACGCTGCCCGCTCTCTGACCTCCTTGACCAGTGTGACAACTTGTGGGCGTGTCTGCACACTTC  
 CTTTGCCTGGCTCCTGAAGGCATGCGGTAGCAGGCTGACAGAAAAGCTCTTAGAGGGCGCTCCCACAGAG  
 GACACCTGGTCCAGATGGAGAAGCTTGTGACTTGGAGGAAGAATCAGAAAAGTTGGGACAATTCTGAGG  
 CTGAGGAGGAGGAAAGCTCCTGTTACACCAGAGGGTGTGAAGGGCGAGAGCTGACCAGTTGCCAAC  
 AGAGTCATCCTTCTCTCAGCCTGTGGGAGCTGGCAGCCCCAAAGCTTACCGGCTTCAAGTCTCTTGA  
 CACATGAGACAGGCTTTGGTGTCCATCCTCCGTATGTTGGCTTGGCATGTCCATGGGGAATCAGG  
 TGATCTGGAAAAGCAGAGATGTGAACCTGGTCCATTCAGCGTTTGAAGTCTCCGGACCATGCTGCCTGT  
 GGGCTGTGTCCGCATCATCCCTTACAGCAGCCAGTATGAGGAGGCTATCGCTGCAACTTCTGGGGCTC  
 AGCCCTCCCGTGCTATCCCTGCCATGTTCTGGCCTCAGAGTTCGTAGTTGCTGTGGAGGTCCACACGG  
 CCACTCGCTCAAACCTCCACCCTGCTGGGTGCGAGGATGACCAGTCCCTCAGCAAGTATGAGTTTGGT  
 GACCAGTGGTAGCCCTGTGGCTGCAGACAGAGTTGGGCCACTATCCTGAATAAGATTGAAGCAGCTCTG  
 ACCAACCAAGACCTGTCTGTGGATGTGGTGGACCAATGTCTCATCTGCCTCAAGGAGGAATGGATGAACA  
 AAGTGAAGTCTGTTTAAATTCACCAAGGTAGACAGTCGCCCAAGGAGGACACACAGAAGCTCCTAAG  
 CGTCTAGGCGCATCAGAGGAGGACAACGTCAAAGTCTGAAAGTCTGGATGACGGGACTGAGCAAAACC  
 TACAAGTCCCATCTCATGTCCACCGTCCGAAGCCACAGCTACAGAGTACGGAGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230571 protein sequence  
 Red=Cloning site Green=Tags(s)

MNAIVALCHFCELVHPRFLFCTEVLHAPLPQAGSGDSPDQVEQAEEEEGGIQMSSRVRAHSPAEGASSE  
 SSSPGPKKSDMCEGCRSLAVGHPGYISHDKETSIKYVSHQHPNHPQLFSIVRQACVRSLSCEVCPGREGP  
 IFFGDEQHGFFVFSHTFFIKDSLARGFQRWYSIIAIMMDRIYLINSWPFLGRIRGIISELQAKAFKVF  
 EQFGCPQRAQMNTAFTPFLHQRNGNAARSLTSLTSDNLWACLHTSFALLKACGSRLTEKLEGAPE  
 DTLVQMEKLADLEEESESWDNSEAEKEKAPVTPGAEGRELTSCTESSFLSACGSWQPPKLTGFKSLR  
 HMRQVLGAPSFRLAWHVLGNQVIWKSVDVNLVHSAFEVLRMLPVGCVRIIPYSSQYEEAYRCNFLGL  
 SPPVPIPAHVLAASEFVVVEVHTATRSNLHPAGCEDDQSLSKYEFVVTSGSPVAADRVGPTILNKIEAAL  
 TNQNLSDVDVQCLICLKEEWMNKVKVLFKFTKVDSPKEDTQKLLSVLGASEEDNVKLLKFWMTGLSKT  
 YKSHLMSTVRSPTATESRS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271357

**ORF Size:** 1740 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\\_001271357.1](#), [NP\\_001258286.1](#)

**RefSeq Size:** 3163 bp

**RefSeq ORF:** 1740 bp

**Locus ID:** 216805

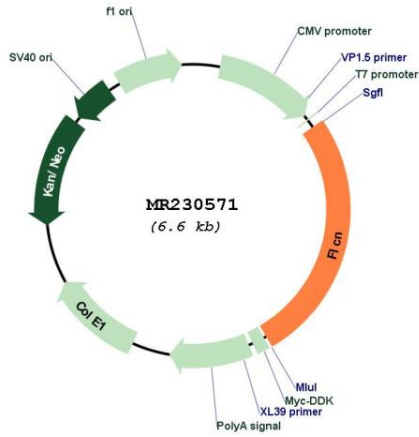
**UniProt ID:** [Q8QZS3](#)

**Cytogenetics:** 11 B1.3

**MW:** 64.3 kDa

**Gene Summary:** May be a tumor suppressor. May be involved in energy and/or nutrient sensing through the AMPK and mTOR signaling pathways. May regulate phosphorylation of RPS6KB1. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230571