

## Product datasheet for **MG219927**

### Cep89 (NM\_028120) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cep89 (NM_028120) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cep89
Synonyms:	2610507L03Rik; Ccdc123
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219927 representing NM\_028120  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCCTCAGCTTCCGCAGGAACCGCCGGAGCCAGTTCAACCACATCATCCATGGCTTCTCCCGCAG  
 CCAGCATCGTCCGAAGCCAGCGGTGCCACGCACACCCCTCCTCGGAGCCCAACCTTCTCCAGAGAG  
 GCCCAGGTCTGCTCTGGCTGCAGCCATCCTGGCAACCACGTTGACTGGGAGACAGTTGCCATTCCCAG  
 CCTCGCCAGAGATCTCGGTCTGAGAGTGATGCCTCCGACATTGAAAAGGACAGCTTCATCAAGCCTTACG  
 CCACCCTTCCGAGCTGAGGCTGCGGCAAAGCTGGCAGAATGAGCCGAGAAGGACGTATTACCATCCTT  
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 CATCCCAAAGCTGGTGAGAAAGGATGATGCTCCTCAACCAGACTGGCTTTCAGACTCCTCCTCCTCCTC  
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 CAGCTGTGAAGTGAAGCCTCTGAGACAGGCAATGAAGGACTTACAGCTGAAGCTCAAGTTGGTGGAAAA  
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 AGAACTCAGTCGTAACAAACAAAATTCAGGCCCTTGTCTGAGGAAGAGAGTTCCCATATCCAAGCCCTC  
 CCATCCAAGGGCCCAACACCACCTGGTGGTGGATATAAAGTATCTCTCACCAGTGTGCTGGCTTATG  
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 TGGAGATTGAGCAAGCAAAGCCAGGGACACCCACCAGGCGCACCTCCAGGACGTTTCTAAGCTGACTAA  
 ACAACTTGTGCTCCTGGAAGCAAAGACTCAGGGCCAGGAAAAGCAGCTCGTGAAAGCACGGAGCAGCTG  
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 GGACTTTGCCGGCAAAGCAGCTCAGTACCAGAAGGAGGTGAAGCACCTACATCGGATGCTGCAGGAAAAG  
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 CCACTGCCAAGGAGAACAGGAGGATGCGGAGCCTTCTCCAGGCCACCCTGGAGAGAAGAAGCACACAGCA  
 CGTCACAGCTCCTCCGGACACTTGCTTGAGACGCTCCTCTCAGGGAGACCTACTGATTGGCCATGATTT  
 AGCTATGGTGATGTCAGCTTCTGGCTACCACCAACCGCCAGAGTCTGGGGGAATCTATGGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219927 representing NM\_028120  
Red=Cloning site Green=Tags(s)

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MLLSFRNRRSQFNHIIHGFLPAASIAPKPAVPRTPPPRSPNPSPERPRSAALAAI LATTLTGQTVAIPQ
PRQRSRSESDASDIEKDSFIKPYATTSELRLRQSWQNEPRRTLSPFEMLGYGEDEDAETQVSTSCRESE
STWKDVGDRDATYTVPHRDQVLP SQKLVRKDDAPQDWLSDSSSSSSSTPQHTQQKDVKHSVLNLEGE
KVRLHEKPPSPDVAGRIHQRYTEITKEKFAELKEETVHLYSANQAL SCELSALRQAMKDLQLKLVK
DNRKLEKTEKASQEGVTEPELLCLRKQSQDLVDENEGLKMI VHRLNVELSRYQTKFRPLSEESSHIQGL
PSKGPTTPWLVDIKYLSPLLLAYEDRMKEKDKLSTALEEEMKTFRLRVQEVVKENEALHQELTKRSPVTV
EEWRQLQTQAEVL DENKLLIEQLEIQQAKARDTHQAHLQDVSKLTKQLV LLEAKTQGQEKQLVESTEQL
ESLQAKCTELKAQLDSKIAVDVHTSIVNELKSQLQKEEEKDSAEMEELMAKLTALQVQKSLLEKSSWA
TRNRALEAELERTRKANRRYQKRIDVLRKQVEKAMGKEMSAHQYLANLVGLAETVTKERDSLKYLAQCLE
SEKHGVLNKILKGNIRL GKLEERVKGYKQAALKLGDIIHRLKEQQEDFAGKAAQYQKEVKHLHMLQEK
QEVLDALQQRNMEGELE MVLESTAKENRRMRSLLQATLERRSTQHVTAPPDTC LRRSSQGDLLIGHDF
SYGDVQLLATTNRQSLGESMA
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_028120

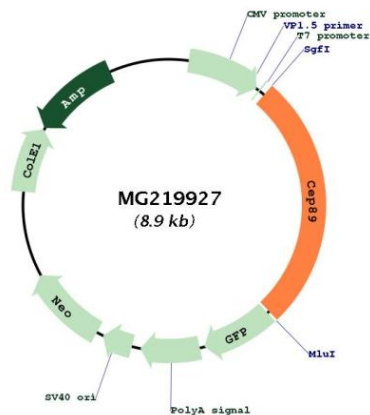
**ORF Size:** 2373 bp

**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\\_028120.3](#)
- RefSeq Size:** 2567 bp
- RefSeq ORF:** 2376 bp
- Locus ID:** 72140
- UniProt ID:** [Q9CZX2](#)
- Cytogenetics:** 7 B2
- Gene Summary:** Required for ciliogenesis. Also plays a role in mitochondrial metabolism where it may modulate complex IV activity (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG219927