

Product datasheet for **RC217471**

CEP89 (NM_032816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP89 (NM_032816) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEP89
Synonyms:	CCDC123; CEP123
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC217471 representing NM_032816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCTGGGATTTGGAGAGGCCGAGGAGTCAATTTCAAACACATCATCCATGGCCTTTTACCTGCAG
 CCAGCGTTGCTCCGAAGGCAGCTGTGCCACGCACACCTCCTCCCGCAGCCCAACCCATCTCCAGAGAG
 ACCAAGATCTGCTCTGGCAGCAGCCATTCTGGCGACAACATTGACTGGGCGGACGGTTGCTATTCTCAG
 CCTCGCCAGAGGTCCCGTCTGAGAGTGTGTGAGCAGTGTGAACAGGACAGCTTCATCGAGCCCTATG
 CCACCACCTCACAGCTGAGGCCTCGGCCAAATTGGCAGAGTGAGATGGGAAGAAGATCTTCTTTGCCATC
 CTTTGAACACTGGACTATGGGGACGAAGAGGACATTGAAACTCAGCTGTATCCAGCGGCAAGGAATTG
 GGGGATGTCAGTGCCCGGAGGACAGAGGAGGCCACAGTGATGACCTGTACGCTGTGCCACACAGAAATC
 AGGTGCCATTGTTACATGAGGTGAACAGTGAAGACGATGAAAATATTTCTCATCAAGATGGGTTCCAGG
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 AAATAACCAGAGAAAAGTTTGGGCATTAAAAGAGAAAATATGGACCTAAACAATATGAATCAAAGCCT
 TACCCTTGAACATAACACAATGAAACAAGCAATGAAAGAACTACAGTTAAAACCTTAAAGGGAATGGAAAA
 GAGAAGAGAAAAGCTCAAAGAGGCTGAGAAGGCGTCGTACAGGAAGTTGCTGCACCTGAATTACTTTATC
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 AGAACTCAGTCGATATCAGACAAAATTCAGGCATTTGTCCAAGGAAGAGAGCTTAAATATGAAGGCCTC
 CCATCCAAGGGCCCTATACCACCTGGTTGTTGGATATAAAGTACCTGTACCATTTGTTGGCTTATG
 AAGATATGATGAAAGAGAAGGACGAGCTCAATGCCACCCTCAAGGAGGAAATGAGAAATGTTTAGGATGCG
 AGTCCAAGAAGTGGTGAAGAAAATGAAGAATTGCACCAAGAGTTAAATAAGAGTAGTGCTGTTACCAAGT
 GAGGAATGGCGTCAGCTTCAAGCAAAAAGTGGTTTTAGAGGAAAAAAGTTGTTGCTGGAGCAGT
 TGGAGATTGAGCAAAAGGAAAGCCAAAGGACAGCCACCAGGAGCGCCTCCAAGAAAGTTTCTAAGCTGACTAA
 ACAACTAATGCTCCTGGAGGCAAAAACCCAGGCCAGGAAAAGGAGCTGGCGGAGAACAGGGAACAGCTG
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 AATCAATTGTGAATGAATTAAGGCAATTACAGAAGGAAGAAGAGAAAAGAAAGGGCTGAGATGGAGGA
 GTTGATGGAGAAGCTGACAGTCTGCAAGCGCAGAAGAAGAGCCTGCTGTTAGAGAAGAACAGTTTGACA
 GAGCAAAACAAAGCACTGGAAGCCGAATTGAACGAGCACAGAAAATCAATAGGAAATCTCAAAAGAAAA
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 AGTGAGAAGGATGGAGTGCTTAATAAAGTCATAAAAAGCAACATTCGCCTGGGAAAGTTAGAGGAAAAAG
 TCAAGGGCTACAAGAAGCAGGCAGCACTGAAGCTGGGGGACATCAGTCACCGTCTGCTGGAGCAGCAGGA
 GGACTTCGCCGGCAAGACAGCCAGTACCAGGAGAGATGCGGCACCTGCACCAGGTGCTGAAGGACAAG
 CAGGAGGTGCTGGACCAGGCGTGCAGCAGAACAGAGAAATGGAAGTGAAGTTGAAGTTATTTGGGAAT
 CTACCTTCAGGGAAAACCGAAGAATCCGAGAATCTCCAGGACACACTCACGAGGACAGGCGTGCAGGA
 CAACCCAGAGCTCTGGTTGCCCCAGCCTCAATGGCGTCTCTCAGGCAGACCTGCTGGACGGCTGCGAT
 GTCTGCTCCTATGACCTGAAGTCTATGCCCCACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217471 representing NM_032816
Red=Cloning site Green=Tags(s)

MLLGFRRGRRSHFKHIIHGLLPAASVAPKAAVPRTPPPRSPNPSPERPRSAALAAAILATTLTGRTVAIPQ
PRQRSRSESDVSSVEQDSFIEPYATTSQLRPRPNWQSEMGRSSLPSFETLDYGDEEDIETQLSSSGKEL
GDVSAREDRGGHSDLLYAVPHRNQVPLLHEVNSEDDENISHQDGFPGSPAPQRTQQKDGKHPVLNLKDE
KPPLCEKPPSPDITGRARQRYTEITREKFEALKEENMDLNNMNQSLTLELNTMKQAMKELQLKLGMEK
EKRKLKEAEKASSQEVAPELLYLKQAQELVDENDGLKMTVHRLNVELSRYQTKFRHLSKEESLNIEGL
PSKGPIPPWLLDIKYLSPLLLAYEDMMKEKDELNATLKEEMRMFRMRVQEVVKENEELHQELNKSSAVTS
EEWRQLQTQAKLVLEENKLLLEQLEIQQRKAKDSHQERLQEVSKLTKQLMLEAKTHGQEKELAENREQL
EILRAKCQELKTHSDGKIAVEVHKSIIVNELKSQLQKEEEKERAEMEELMEKLTVLQAQKSLLEKNSLT
EQNKALEAELERAQKINRKSQKKIEVLKKQVEKAMGNEMSAHQYLANLVGLAENITQERDSLMCLAKCLE
SEKDGVLNKVIKSNIRLGKLEEKVKGYKKAALKLGDISHRLLEQQEDFAGKTAQYRQEMRHLHQVLKDK
QEVLDQALQQNREMEGELEVIWESTFRENRRIRELLQDTLTRTGVQDNPRALVAPSLNGVSQADLLDGC
VCSYDLKSHAPTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8120_a10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_032816

ORF Size: 2349 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_032816.3](#), [NP_116205.3](#)

RefSeq Size: 2609 bp

RefSeq ORF: 2352 bp

Locus ID: 84902

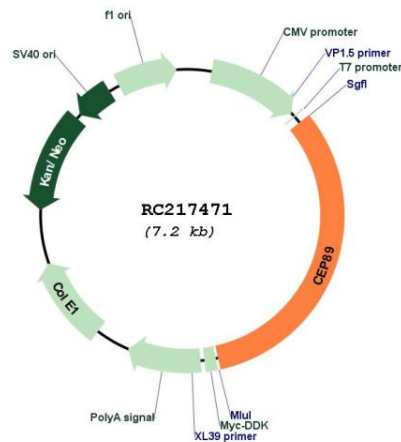
UniProt ID: [Q96ST8](#)

Cytogenetics: 19q13.11

MW: 90 kDa

Gene Summary: Required for ciliogenesis. Also plays a role in mitochondrial metabolism where it may modulate complex IV activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217471