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Product datasheet for RC207634

CEP97 (NM_024548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP97 (NM_024548) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEP97
Synonyms:	2810403B08Rik; LRRIQ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207634 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGGCGCGCGTGGACGCGGCTTTGCCTCCCGGAGAAGGATCAGTGGTCAATTGGTCAGGACAGG
GACTACAGAAATTAGGTCCAAATTTACCCTGTGAAGCTGATATTCACACTTTGATTCTGGATAAAAATCA
GATTATTAAATTGGAAAATCTGGAGAAATGCAAACGATTAATACAGTTATCAGTAGCTAATAATCGGCTG
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GATCTATCTAAATTGGTATCCCTGAAAACCCTGCTTTTACATGGAAACATCATCACCTCTCTTAGAATGG
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GGTCTTCAAACTGCAGAGGATGCCAAACTAGAGAAGATTTTGAGCAAACAGAGGTTTCACCAGAGGCAGT
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TGAGCATTCAAGCCCTGTTCAAGATTGCCAGATATCCCAGGAAAGTGAACCCGTCATTCAAGTGAATTCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207634 protein sequence
Red=Cloning site Green=Tags(s)

MAVARVDAALPPGEGSVVNWSGQGLQKLGPNLPCEADIHTLILDKNQIIKLENLEKCKRLIQLSVANNRL
VRMMGVAKLTLLRVLNLPHNSIGCVEGLKELVHLEWLNLAGNNLKAMEQINSCTALQHLDLSDNNISQIG
DLSKLVSLKTLLLHGNIITSLRMAPAYLPRSLAILSLAENEIRDLNEISFLASLTELEQLSIMNNPCVMA
TPSIPGFDYRPYIVSWCLNLRVLDGYVISQKESLKAEWLYSQGKGRAYRPGQHIQLVQYLATVCPLTSTL
GLQTAEDAKLEKILSKQRFHQRQLMNQSQNEELSPLVPVETRASLIPEHSSPVQDCQISQESEPVIQVNS
WVGINSNDDQLFAVKNNFPASVHTTRYSRNDLHLEDIQTDEDKLNCSLLSSESTFMPVASGLSPLSPTVE
LRLQGINLGLEDDGVADESVKGLESQVLDKEEEQPLWAANENSVQMMRSEINTEVNEKAGLLPCPEPTII
SAILKDDNHSLTFFPESTEQKQSDIKKPENTQPENKETISQATSEKLPMILTQRSVALGQDKVALQKLND
AATKLQACWRGFYARNYNPQAKDVRYEIRLRRMQEHIVCLTDEIRRLRKERDEERIKKFVQEEAFRFLWN
QVRSLQVWQQTVDQRLSSWHTDVPPISSTLVPSKHPLFTQSQESSCDQNADWFIASDVAPQEKSLPEFPD
SGFHSSLTEQVHSLQHSLDFEKSSTEGSESSIMGNSIDTVRYGKESDLGDVSEEHGEWNKESSNNEQDNS
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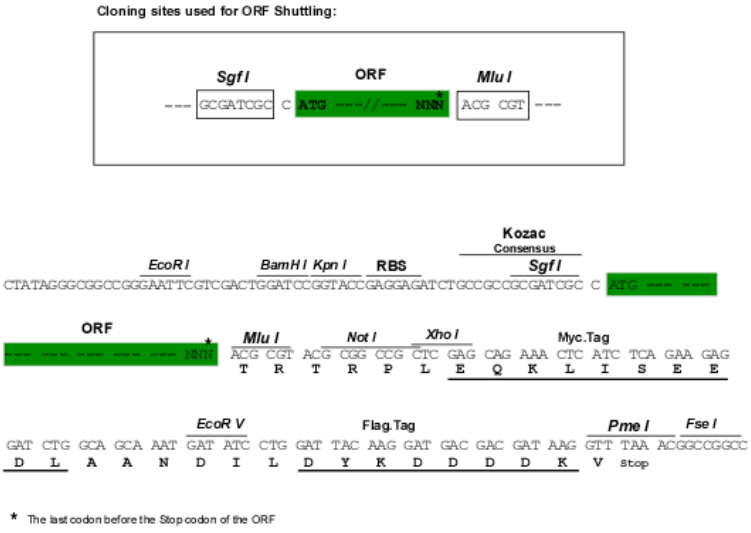
LNAEVQGQQPECDSTFQLLHVGVTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6759_c04.zip

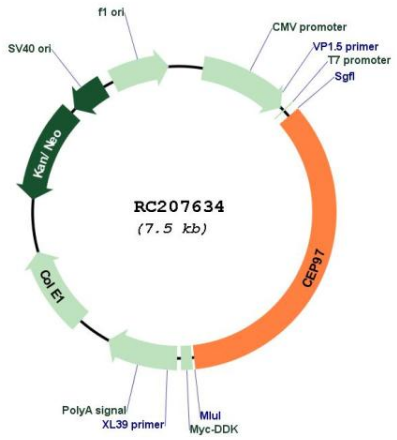
Restriction Sites: SgfI-MluI

Cloning Scheme:

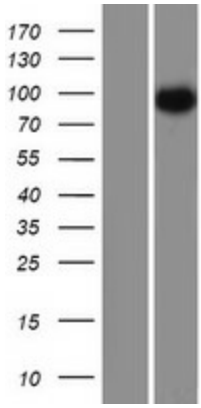


ACCN:	NM_024548
ORF Size:	2595 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_024548.2, NP_078824.2
RefSeq Size:	4439 bp
RefSeq ORF:	2598 bp
Locus ID:	79598
UniProt ID:	Q8IW35
Cytogenetics:	3q12.3
MW:	97 kDa
Gene Summary:	Acts as a key negative regulator of ciliogenesis in collaboration with CCP110 by capping the mother centriole thereby preventing cilia formation. Required for recruitment of CCP110 to the centrosome.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207634



Western blot validation of overexpression lysate (Cat# [LY411246]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207634 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).