

## Product datasheet for **RG207634**

### CEP97 (NM\_024548) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CEP97 (NM_024548) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEP97
Synonyms:	2810403B08Rik; LRRIQ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207634 representing NM\_024548  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGTGGCGCGCTGGACGCGGCTTTGCCTCCCGGAGAAGGATCAGTGGTCAATTGGTCAGGACAGG  
 GACTACAGAAATTAGGTCCAAATTTACCCTGTGAAGCTGATATTCACACTTTGATTCTGGATAAAAAATCA  
 GATTATTAATGGAAAACTGGAGAAATGCAAACGATTAATACAGTTATCAGTAGCTAATAATCGGCTG  
 GTTCGGATGATGGGTGTGGCCAAGCTGACGTTGCTTCGTGATTAATAATTTGCCTCATAATAGCATTGGCT  
 GTGTGGAAGGGCTAAAGGAACTAGTACATCTGGAATGGCTGAATTTGGCAGGAAAATAATCTTAAGGCCAT  
 GGAACAGATCAATAGCTGCACAGCTCTACAGCATCTCGATTTATCAGACAATAATATATCCAGATAGGT  
 GATCTATCTAAATGGTATCCCTGAAAACCTGCTTTTACATGGAACATCATCACCTCTCTTAGAATGG  
 CACCTGCTTACCTACCCAGAAGTCTTGCTATACTTTCTTTGGCAGAAAATGAAATCCGAGACTTAAATGA  
 GATCTCTTTTTTGGCATCCTTAAGTGAATTGGAACAGTTGTCGATTATGAACAATCCTTGTGTGATGGCA  
 ACACCATCCATCCAGGATTTGACTATCGGCCGTACATCGTCAGCTGGTGCCTAAACCTCAGAGTCCTAG  
 ATGGATATGTGATTTCTCAGAAGGAAAGTTTGAAGCTGAATGGCTCTATAGTCAAGGCAAGGGGAGAGC  
 ATATCGGCCTGGCCAGCACATCCAGCTTGTCCAATATCTGGCTACAGTCTGCCCCCTCACTTCTACACTA  
 GGTCTTCAAATCGAGAGGATGCCAAACTAGAGAAGATTTTGGCAGAAACAGAGGTTTACCAGAGGCAGT  
 TGATGAACCAAAGCCAAAATGAAGAGTTGTCTCCTCTTGTTCCTGTTGAAACAAGGGCATCCCTTATTCC  
 TGAGCATTCAAGCCCTGTTCAAGATTGCCAGATATCCAGGAAAGTGAACCCGTCATTCAAGTGAATTCT  
 TGGGTTGGGATAAACAGTAATGATGATCAGTTATTTGCGGTTAAGAATAATTTTCCAGCCTCTGTACACA  
 CTACGAGATATTCTGAAATGATCTGCACCTGGAAGACATACAGACGGATGAGGACAAGTAAACTGTAG  
 TCTTCTCTCTTCCAGAGTCTACTTTTATGCCAGTTGCATCAGGACTGTCTCCACTATCACCTACAGTTGAG  
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 GAGAAGTGAATCAATACAGAGGTAATGAGAAAGCTGGACTATTACCTTGTCTGAGCCAACAATAATC  
 AGTGCTATCTGAAGGATGATAACCACAGTCTTACATTTTTTCTGAGTCAACTGAGCAGAAACAATCAG  
 ACATAAAGAAACCAGAAAATACACAACCAGAAAATAAAGAAACCATATCTCAAGCAACTTCAGAGAACT  
 TCCCATGATTTAAACCAGAGATCTGTTGCTTTGGACAAGACAAAGTTGCCCTTCAGAAATTAATGAT  
 GCAGCCACCAAGCTTCAGGCCTGTGGCGGGATTTTATGCCAGGAACTACAACCCTCAAGCCAAAGATG  
 TGC GTTACGAAATCCGGCTACGCAGAATGCAAGAGCACATTGTCTGCTTAACTGATGAAATAAGGAGATT  
 ACGAAAAGAAAGAGATGAAGAACGTATTAATAATTTGTACAAGAAGAAGCTTTCAGATTCCTTTGGAAC  
 CAGGTAAGGTCTCTACAGGTTTGGCAACAGACAGTGGACCAGCGTCTAAGTTCTTGGCATACTGATGTT  
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 TCAAAAATGCTGATTGGTTTATTGCTTCTGATGTAGCTCTCAAGAGAAATCATTACCAGAATTTCCAGAC  
 TCTGGTTTTTCTCTCTCTAACAGAACAAGTTCATTTCATTGCAGCATTCTTTGGATTTTGAGAAAAGTT  
 CCACAGAAGGCAGTGAAGCTCCATAATGGGGAATTCATTGACACAGTCAGATATGGCAAAGAATCAGA  
 TTTAGGGGATGTTAGTGAAGAACATGGTGAATGGAATAAGGAAAGCTCAAATAACGAGCAGGACAATAGT  
 CTGCTTGAACAGTATTTAACTTCAGTTCAACAGCTGGAAGATGCTGATGAGAGGACCAATTTTATACAG  
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 TGTAGATGAGAGTCATGGCATATCTCTCTTTGCAAGGTGAAATTAGCCAGACACAAGAGAATTTAA  
 TAAATGCAGAAGTTCAAGGCAGCAGCCAGAATGTGATTCTACATTTTCAGCTATTGCATGTTGGTGTGA  
 CTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207634 representing NM\_024548  
 Red=Cloning site Green=Tags(s)

MAVARVDAALPPGEGSVVNWSSGQLQKLGPNLPCEADIHTLILDKNQIIKLENLEKCKRLIQLSVANNRL  
 VRMMGVAKLTLLRVLNLPNHSIGCVEGLKELVHLEWLNLAGNNLKAMEQINSCTALQHLDSLNNISQIG  
 DLSKLVSLKTLHLHGNIITSLRMAPAYLPRSLAILSLAENEIRDLNEISFLASL TELEQLSIMNNPCVMA  
 TPSIPGFDYRPYIVSWCLNLRVLDGYVISQKESLKAEWLYSQGGRAYRPGQHIQLVQYLATVCPLTSTL  
 GLQTAEDAKLEKILSKQRFHQRLMNQSQNEEL SPLVPVETRASLIPEHSSPVQDCQISQSESVPIQVNS  
 WVGINSNDQLFAVKNNFPASVHTTRYSRNDLHLEDIQTDKLNCSLLSSESTFMPVASGLSPLSPTVE  
 LRLQGINLGLLEDDGVADES VKGLESQVLDKEEQPLWAANENSVQMMRSEINTEVNEKAGLLPCPEPTII  
 SAILKDDNHSLTFFPESTEQKQSDIKKPENTQPENKETISQATSEKLP MILTQRSVALGQDKVALQKLN  
 AATKLQACWRGFYARNYNPQAKDVRYEIRLRMQEHIVCLTDEIRRLRKRDEERIKKVFQEEAFRFLWN  
 QVRS LQVWQQTVDQRLSSWHTDVPPISS TLVPSKHPLFTQSQESSCDQNADWFIASDVAPQEKSLPEFPD  
 SGFHSSLTEQVHSLQHSLDFEKSSTEGSESSIMGNSIDTVRYGKESDLGDVSEEHGWEKNKSSNNEQDNS  
 LLEQYLT SVQLEADERTNFDTE TRDSKLHIACFPVQLDTLSDGASVDESHGISPPLQGEISQTQENSK  
 LNAEVQGGQPECDSTFQLLHVGVTV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

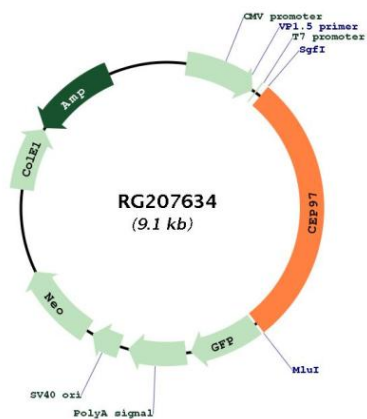
Sgfl-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_024548
<b>ORF Size:</b>	2595 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024548.2</a> , <a href="#">NP_078824.2</a>
<b>RefSeq Size:</b>	4439 bp
<b>RefSeq ORF:</b>	2598 bp
<b>Locus ID:</b>	79598
<b>UniProt ID:</b>	<a href="#">Q8IW35</a>
<b>Cytogenetics:</b>	3q12.3
<b>Gene Summary:</b>	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 RG207634