

Product datasheet for SC114917

CEP104 (NM_014704) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP104 (NM_014704) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEP104
Synonyms:	CFAP256; GlyBP; JBTS25; KIAA0562; ROC22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114917 sequence for NM_014704 edited (data generated by NextGen Sequencing)

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ATGCCCCACAAGATTGGATTTGTAGTCGTCAGCTCATCTGGACACGAAGACGGCTTCAGT
GCCCGGGAGCTCATGATCCACGCGCCAAGTGTCTAGTGGGTGGCGTCCACCTAGATTTTGC
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AGCAATACTGCCTCTCGAGAGAAGTTGATTGACCACTACCTTGGGCACAACAGCGAGGAC
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TTGAAATTGTTGAAAATGATCATTACACAATATATTCCTAAACATAAACTGAGTAACTT
 GAAACAGCTCACTGTGTGGAGAGACCATTCCCCTTTTGCTCACCAGAACTGGAGATTCT
 TCTGCCCGCTCCGCGTCACAGCTGCAAATTTTATTTCAGGAAATGGCCTTGTTAAAGAA
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 TCAAAGGCCGGAAGCAAGATCCCCACCCGAAGGGCGGACTGAGCAAGAGCTCCAGCAGG
 ACGTACGCCAAGCGCTGA

Clone variation with respect to NM_014704.3
 2057 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014704 unedited
 ATTCGGCAGGAGGTGGAGGCTGCGGCCGGGGCTATGGGCAGAGGTGGCCGGTCTGCTTC
 TTCCCTGTCACTGCCGCAGCAGCTTGGGGTGCAAGGCGGCCTGGGGCGGCGGAAGGGGCG
 CCCCCGAGTTCGGTCTGAGGAAGCGGGCTGCCGAGGAAGTCCACGAGAGCCGGGTCC
 CGCACGCCCTGGGGTCCGGGTGCTGAGGCGCCGCTGGCCGCCTCCCCGGGCCGCGGCA
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 TCTGGACACGAAGACGGCTTCAGTGCCCGGAGCTCATGATCCACGCGCCAACTGTCAGT
 GGGTGGCGGGCACCTAGATTTTGCCAGTTTCCACAAGAAATTGTCCTTCAAATGGTGGAG
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 GAGGTCTACCTTACTGAAAGCTTGCTGAATATTTTGCACCCTATCAGCAGAGCGGTTTC
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 ATAGTTTATGTATGCAGAGGACAATTTTAAACCGATTTTACCCAACCATGGTACAAAAC
 ACCATTATATCCGGTGGTTTGGTGCATAATATATTGGGGACCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014704 unedited CTTGGACCCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTAGGNTCT TTTGCCTTTATTTCTTGCTATAGTGGGAACGTGAGTTCTGCTACCTGGGGCTGAGTGCAC TGGGCAGCAGGCCAGCAGACGGGGCCTGCAGGGGAAGGCACGGCTGGAGGCCCGTGC CACCGCCACTCTTCTGGAACCGCTGCTGGCCGAGCCACAGCCCTGCGGAAATTCTACTGC GTGTGGCAGAGACCGATGTGAAAAGGTTTCTGGGGAATGTTTTATGGAAATTGCTCAA GCACTAAGGAAAGCGGGACCGTGCCTGTGCTGACCGTGGCCTTGGCGACCGCCTCCCTG GCGGGGCTCTTTGGCTCTTTCAAACAGGACGCTTCTTCTCTGATTCTAAGGAAGGCCT GACACACCCCTGAAGGCTTAATGTACAGCGCGGCCGGTCTGGCCCTGGGCCATGACC CTTGGCTCGTGCATCCATAACGGTTGCACCAGCATCTCACGGCTCAGACCGCCATACAC GCCTCCCCGCGGCCCGTCTTTTGCCTCCGAGTCCCGCCGTGTCGGGCCGCGCGTCCGGC TTCCGTCGCCCTNTCCGTTCAACGTGGTCCCCGCGGGCTCCGTCTCGTCCCCCCCCCCC CGACTTCCCCCGCCCTCTTTTTCGATTTCCCCCATCCCTTCCCCCGCTCCTTCTTTC CTCCCCCTTTTCTCTCACTTCCGCGTCTTCTATCTCGCTAGCCATTCCGTCCTCCC GTCTTTTTCTCTCCCGCCCCCTCTTTTTTCCGTTTTTCCCCCCCCCGGTTCTCCATC CCCATTCCCCCGCCCCCTGCCGCCCTCTTCCCCCGCCCCCGCGTCCCCCCTTG GTAATCCTGTCCGGCCCCCTGACCGTCTCCCCCTTTTCTCTCCCATTTTCATTTTTTT TCTCTACCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_014704
Insert Size:	3900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_014704.1</u> , <u>NP_055519.1</u>
RefSeq Size:	5848 bp
RefSeq ORF:	2778 bp
Locus ID:	9731
UniProt ID:	<u>O60308</u>
Cytogenetics:	1p36.32

Gene Summary:

This gene encodes a centrosomal protein required for ciliogenesis and for ciliary tip structural integrity. The mammalian protein contains three amino-terminal hydrophobic domains, two glycosylation sites, four cysteine-rich motifs, and two regions with homology to the glutamate receptor ionotropic, NMDA 1 protein. During ciliogenesis, the encoded protein translocates from the distal tips of the centrioles to the tip of the elongating cilium. Knockdown of the protein in human retinal pigment cells results in severe defects in ciliogenesis with structural deformities at the ciliary tips. Allelic variants of this gene are associated with the autosomal-recessive disorder Joubert syndrome, which is characterized by a distinctive mid-hindbrain and cerebellar malformation, oculomotor apraxia, irregular breathing, developmental delay, and ataxia. [provided by RefSeq, Feb 2016]