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# Product datasheet for RC212710L4V

## CEP104 (NM_014704) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | CEP104 (NM_014704) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | CEP104 |
| **Synonyms:** | CFAP256; GlyBP; JBTS25; KIAA0562; ROC22 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_014704 |
| **ORF Size:** | 2775 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC212710). |
| **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. |
| **RefSeq:** | NM_014704.1, NP_055519.1 |
| **RefSeq Size:** | 5848 bp |
| **RefSeq ORF:** | 2778 bp |
| **Locus ID:** | 9731 |
| **UniProt ID:** | O60308 |
| **Cytogenetics:** | 1p36.32 |
| **MW:** | 104.3 kDa |

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**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]