

## Product datasheet for **SC122993**

### CPLANE2 (NM\_030907) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CPLANE2 (NM\_030907) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CPLANE2  
**Synonyms:** C1orf89; RSG1  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_030907 edited  
 ATACCCTCCATGGGCAGTAAATGGGATGACTATCCCCAGGGAGCATTGCGAAGGAGAGAGG  
 CGGCTGAGGGACTGCACCTTCTGGGGCCCCCGGAGAGTCAGAGGGCAGTTAAGAGGGA  
 TCACAGGCCCGGCTTGGTACTGTCACTCCCTTCCCACTCCCTGCTCTCAGCATTCTGTC  
 ACCTCCCTACCCCGTTCGGGTGCCAGCCATGGCCAGACCTCCCGTGCCCGGTTCCGTGG  
 TTGTCCCAAAGTGGCACGAGAGTGCCGAGGGCAAGGAGTACCTGGCTTGATTCTGCGCA  
 AGAACCGCGCGGGTGTGGGCTGCTTGAGCGGCCAGTGTGCTGCCGCTGTGTCCA  
 TTGACACTGCCAGCTACAAGATCTTTGTGTCCGGGAAGAGTGGTGTGGGCAAGACGGCGC  
 TGGTGGCCAAGCTGGCTGGCCTGGAGGTGCCTGTGGTGCACCACGGGACCACGGCATCC  
 AGACCACCGTGGTATTTGGCCAGCCAAGCTGCAGGCCAGCAGCCGTGTCGTCATGTTTC  
 GTTTTGTGTTCTGGGACTGTGGAGAGTCTGCACTCAAAAAGTTTCGATCATATGCTGCTGG  
 CTGTCATGGAGAACAGATGCCTTCCTTCTTCTTCTTCTTCACTGACCGTGCCTCCT  
 TTGAAGACCTCCCTGGACAGCTGGCCCGCATAGCAGGTGAGGCCCTGGTGTGTCGTCAGGA  
 TGGTATCGGGCTCCAAATTTGACCAGTACATGCACACGGACGTGCCCGAGCGGGACCTCA  
 CAGCCTTCCGGCAGGCCTGGGAGCTGCCCTGCTACGGGTGAAGAGTGTGCCGGGGCGGC  
 GGCTGGCTGATGGGCGCACACTGGACGGGCGGGCTGGGCTGGCCGACGTTGCCACATAC  
 TCAATGGCCTTGTGAGCAGCTGTGGCACCAGGACCAGGTGGCGGCTGGCCTGCTTCCA  
 ACCCCCCAGAGAGTGTCTCCTGAATGAGTACGAGTGGTTGCCTGTGATCCACCCCCAAC  
 CCTCAGGTCTCGACATAGGGCTGGAGGCTGGGGCAGGAACATGGATCCTATCTGGAGGAC  
 TGGCCAGCATGGCCTGATCAGGGAGGATGTGGCCAGAGAAGGCCACCCCGCAGCAGCGC  
 TTTCTTGCAGAATTCATGGCAGGGAGGTGGGGACCAAGGCCCTGAGCTCGAACATCTCC  
 CGTGGCCTTTCCCTTTGGCAGCACCGATGGAGGATGACTGGGAGAGGGGTGCCTCTC  
 AAGTTACTTCAATCAAGAACCTGTATTGGTTGAGGTGACACCATCTGTTGTAACAGATAA  
 ACCCCGAAATCCCAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_030907 unedited NNGGAGGTCACAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGATACC CTCCATGGGCAGTAATGGGATGACTATCCCCAGGNAGCATTGCGAAGGAGAGAGGGCGCT GAGGGACTGCACTTTCTGGGGCCCCCGGGAGAGTCAGAGGGCAGTTAAGAGGGATCACA GGCCCCGGCTTGGTACTGTCACTCCCCTTCCCACTCCCTGCTCTCAGCATTCTGTACCTC CCTACCCCGTCGCGGTGCCAGCCATGGCCAGACCTCCCGTGCCCGGTTCCGTGGTTGTC CCAAACTGGCACGAGAGTGCCGAGGGCAAGGAGTACCTGGCTTGCATTCTGCGCAAGAAC CGCCGGCGGTGTTGGGCTGCTTGAGCGGCCAGTGCTGCTGCCGCCTGTGTCCATTGAC ACTGCCAGCTACAAGATCTTTGTGTCCGGGAAGAGTGGTGTGGGCAAGACGGCGCTGGTG GCCAAGCTGGCTGGCCTGGAGGTGCCTGTGGTGCACCACGGGACCACCGCATCCAGACC ACCGTGGTATTTTGGCCAGCCAAGCTGCAGGCCAGCAGCCGTGTCGTCATGTTTCGTTTT GAGTTCTGGGACTGTGGAGAGTCTGCACTCAAAAAGTTTCGATCATATGCTGCTGGCTTGC ATGGAGAACACAGATGCCTTCTCCTTCTCCTTCTCCTTCACTGACCGTGCCTCCTTTGAA GACCTCCCTGGACAGCTGGCCGCATAGCATGTGATGCCCTGGTGTGTCAGGNATGGT CATCGCTCCAAATTGACCAGTACATGCACACGGACGTGCCCGAGCGGGACCTCACAGCCT TCCGGCAGGCCTGGGAGCTGCCCTGCTACAGGTGAAGAGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_030907
<b>Insert Size:</b>	1361 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_030907.2</a></u> , <u><a href="#">NP_112169.1</a></u>
<b>RefSeq Size:</b>	1352 bp
<b>RefSeq ORF:</b>	777 bp
<b>Locus ID:</b>	79363
<b>UniProt ID:</b>	<u><a href="#">Q9BU20</a></u>
<b>Cytogenetics:</b>	1p36.13

**Gene Summary:**

Potential effector of the planar cell polarity signaling pathway. Plays a role in targeted membrane trafficking most probably at the level of vesicle fusion with membranes. Involved in cilium biogenesis by regulating the transport of cargo proteins to the basal body and to the apical tips of cilia. More generally involved in exocytosis in secretory cells (By similarity). [UniProtKB/Swiss-Prot Function]