

Product datasheet for RC202545

CPLANE2 (NM_030907) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CPLANE2 (NM_030907) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:CPLANE2

Synonyms: C1orf89; RSG1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC202545 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TGAA

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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CPLANE2 (NM_030907) Human Tagged ORF Clone - RC202545

Protein Sequence: >RC202545 protein sequence

Red=Cloning site Green=Tags(s)

MARPPVPGSVVVPNWHESAEGKEYLACILRKNRRRVFGLLERPVLLPPVSIDTASYKIFVSGKSGVGKTA LVAKLAGLEVPVVHHGTTGIQTTVVFWPAKLQASSRVVMFRFEFWDCGESALKKFDHMLLACMENTDAFL FLFSFTDRASFEDLPGQLARIAGEAPGVVRMVIGSKFDQYMHTDVPERDLTAFRQAWELPLLRVKSVPGR RLADGRTLDGRAGLADVAHILNGLAEQLWHQDQVAAGLLPNPPESAPE

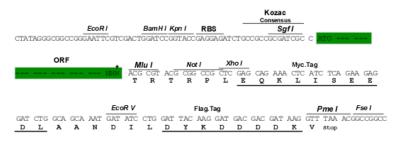
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6627 c04.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_030907

ORF Size: 774 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: <u>NM 030907.2</u>, <u>NP 112169.1</u>

RefSeq Size: 1582 bp **RefSeq ORF:** 777 bp

 Locus ID:
 79363

 UniProt ID:
 Q9BU20

 Cytogenetics:
 1p36.13

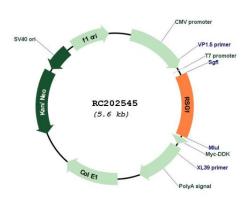
 MW:
 28.4 kDa

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).

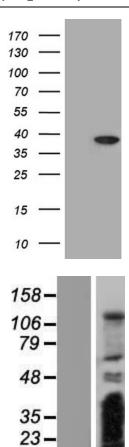
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC202545





HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RSG1 (Cat# RC202545, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RSG1 (Cat# [TA810727])(1:500). Positive lysates [LY410666] (100ug) and [LC410666] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY410666]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202545 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).