

## **Product datasheet for RG206003**

### 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

### Cytohesin 3 (CYTH3) (NM\_004227) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Cytohesin 3 (CYTH3) (NM 004227) Human Tagged ORF Clone

Tag: TurboGFP
Symbol: Cytohesin 3

Synonyms: ARNO3; cytohesin-3; GRP1; PSCD3

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG206003 representing NM\_004227

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGATGAAGACGGCGGCGGCGAGGGTGGTGGCGTGCCTGAAGACCTCTCATTAGAAGAGAGAAGAAAC TTCTAGACATTCGTCGAAGAAAAAAGGAACTTATTGATGACATTGAGAGGCTGAAATATGAAATTGCAGA GCCATGGGAAGAAAGAAATTCAACATGGATCCCAAAAAGGGAATTCAGTTTCTAATAGAAAAATGACCTGC TACAGAGTTCCCCAGAAGACGTCGCCCAGTTCCTTTATAAAGGAGAGGCCTAAATAAGACCGTCATTGG GGACTACCTGGGTGAAAGGGATGAATTTAATATTAAAGTTCTTCAAGCCTTTGTTGAACTCCATGAGTTT GCTGATCTCAACCTTGTACAAGCCTTAAGGCAGTTCTTATGGAGCTTCAGGCTGCCCGGGGAGGCCCAGA AGATTGATCGCATGATGGAGGCTTTCGCTTCTCGCTACTGCCTGTGCAACCCCGGGGTCTTCCAGTCCAC AGACACGTGCTACGTGCTGTCATTCGCCATCATCATGCTCAACACCAGCCTCCACAACCACAACGTGCGT GACAAGCCCACGGCAGAACGGTTCATCGCCATGAACCGCGGCATCAACGAGGGCGGGGACCTCCCTGAGG AGCTGCTGAGGAATTTGTATGAGAGCATTAAGAACGAGCCATTTAAGATCCCGGAGGACGACGGAACGA TGGAAGCGCCGGTGGTTCATCCTGACCGATAACTGCCTCTATTACTTTGAATACACAACAGATAAGGAGC CCAGGGGAATCATCCCGTTGGAAAACCTCAGCATCAGGGAGGTGGAGGACCCCCGGAAACCCAACTGTTT TGAGCTCTACAATCCCAGCCACAAAGGGCAGGTCATCAAGGCCTGTAAGACGGAGGCCGACGGCCGCGTG GTAGAGGGGAACCATGTGGTGTACCGGATCTCAGCCCCGAGCCCGGAGGAGAAGGAGGAGTGGATGAAAT CCATCAAAGCCAGTATCAGCAGAGATCCCTTCTATGACATGTTGGCAACGAGGAAACGAAGGATTGCCAA TAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA





**Protein Sequence:** 

>RG206003 representing NM\_004227
Red=Cloning site Green=Tags(s)

MDEDGGGEGGGVPEDLSLEEREELLDIRRRKKELIDDIERLKYEIAEVMTEIDNLTSVEESKTTQRNKQI AMGRKKFNMDPKKGIQFLIENDLLQSSPEDVAQFLYKGEGLNKTVIGDYLGERDEFNIKVLQAFVELHEF ADLNLVQALRQFLWSFRLPGEAQKIDRMMEAFASRYCLCNPGVFQSTDTCYVLSFAIIMLNTSLHNHNVR DKPTAERFIAMNRGINEGGDLPEELLRNLYESIKNEPFKIPEDDGNDLTHTFFNPDREGWLLKLGGRVKT WKRRWFILTDNCLYYFEYTTDKEPRGIIPLENLSIREVEDPRKPNCFELYNPSHKGQVIKACKTEADGRV VEGNHVVYRISAPSPEEKEEWMKSIKASISRDPFYDMLATRKRRIANKK

TRTRPLE - GFP Tag - V

**Chromatograms:** 

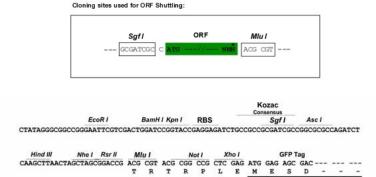
https://cdn.origene.com/chromatograms/ja3211 e04.zip

**Restriction Sites:** 

Sgfl-Mlul

1197 bp

Cloning Scheme:



Pmel Fsel

**ACCN**: NM\_004227

OTI Disclaimer:

**ORF Size:** 

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

### Cytohesin 3 (CYTH3) (NM\_004227) Human Tagged ORF Clone - RG206003

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 004227.2</u>

 RefSeq Size:
 4482 bp

 RefSeq ORF:
 1200 bp

 Locus ID:
 9265

 UniProt ID:
 043739

 Cytogenetics:
 7p22.1

 Domains:
 Sec7, PH

**Protein Families:** Druggable Genome

Gene Summary: This gene encodes a member of the PSCD (pleckstrin homology, Sec7 and coiled-coil

domains) family. PSCD family members have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains

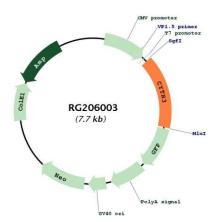
guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with

phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. This encoded protein is involved in the control of Golgi structure and function, and it may have a physiological role in regulating ADP-ribosylation factor protein 6 (ARF) functions, in addition to

acting on ARF1. [provided by RefSeq, Jul 2008]



# **Product images:**



Circular map for RG206003