

### OriGene Technologies, Inc.

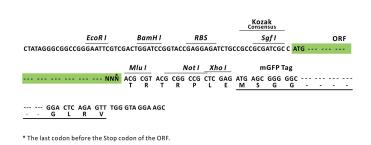
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# Product datasheet for RC206003L4

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

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cytohesin 3 (CYTH3) (NM_004227) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Cytohesin 3
Synonyms:	ARNO3; cytohesin-3; GRP1; PSCD3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC206003).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1         ORF         Mlu I            GCG ATC GC         ATG//         NNN         ACG CGT



ACCN: ORF Size: NM\_004227 1197 bp



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	ytohesin 3 (CYTH3) (NM_004227) Human Tagged Lenti ORF Clone – RC206003L4
OTI Disclaimer:	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 <u>custsupport@origene.com</u> 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>
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 Met	<ul> <li>hod: 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> </ul>
RefSeq:	<u>NM 004227.3</u>
RefSeq Size:	4482 bp
RefSeq ORF:	1200 bp
Locus ID:	9265
UniProt ID:	<u>043739</u>
Cytogenetics:	7p22.1
Domains:	Sec7, PH
Protein Families:	Druggable Genome
MW:	46.3 kDa

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# Cytohesin 3 (CYTH3) (NM\_004227) Human Tagged Lenti ORF Clone - RC206003L4Gene Summary:This gene encodes a member of the PSCD (pleckstrin homology, Sec7 and coiled-coil<br/>domains) family. PSCD family members have identical structural organization that consists of<br/>an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology<br/>(PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains<br/>guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with<br/>phospholipids and is responsible for association of PSCDs with membranes. Members of this<br/>family appear to mediate the regulation of protein sorting and membrane trafficking. This<br/>encoded protein is involved in the control of Golgi structure and function, and it may have a<br/>physiological role in regulating ADP-ribosylation factor protein 6 (ARF) functions, in addition to<br/>acting on ARF1. [provided by RefSeq, Jul 2008]

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