

# Product datasheet for RC208043

## PSCD4 (CYTH4) (NM\_013385) Human Tagged ORF Clone

#### **Product data:**

## OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PSCD4 (CYTH4) (NM_013385) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSCD4
Synonyms:	CYT4; cytohesin-4; DJ63G5.1; PSCD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC208043 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGACCTGTGCCACCCAGAGCCCGCGGAGCTGAGCAGCGGGAGACGGAAGAGTTACAGAGGATCAAGT

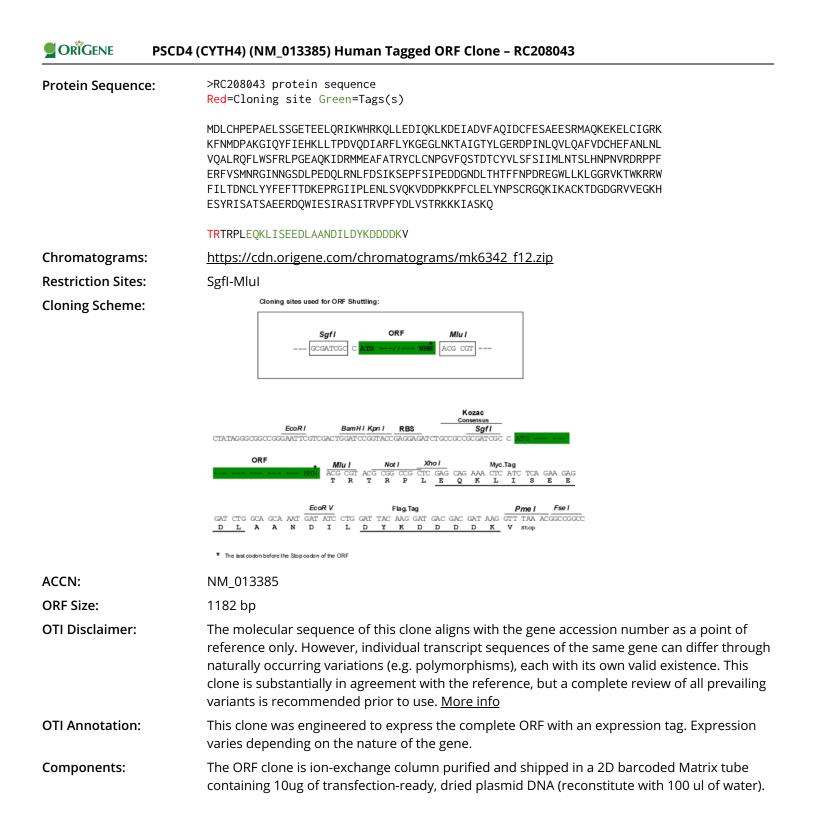
GGCACCGAAAGCAGCTCCTGGAGGACATCCAGAAGCTGAAGGATGAGATTGCAGATGTGTTTGCCCAAAT CGACTGCTTCGAGAGTGCGGAGGAGAGCCGGATGGCCCAGAAGGAGAAGGAGCTGTGTATTGGGCGCAAG AAGTTCAACATGGACCCCGCCAAGGGTATCCAGTATTTCATTGAGCACAAGCTGCTGACCCCTGACGTCC GAGGGATCCCATCAACCTGCAGGTCCTCCAGGCCTTCGTGGACTGCCACGAGTTCGCCAACCTCAACCTC GTCCAGGCCCTCAGGCAGTTCCTGTGGAGCTTCCGGCTGCCGGGCGAGGCCCAGAAGATAGACCGGATGA TGGAGGCCTTTGCCACTCGATACTGCCTCTGCAACCCAGGCGTCTTCCAGTCCACAGACACCTGCTACGT GTTGTCCTTCTCCATCATCATGCTCAACACCAGCCTCCACAATCCCAACGTCCGGGACAGGCCGCCTTTC GAGCGCTTTGTGTCCATGAACCGCGGCATCAACAATGGTAGCGACCTGCCCGAGGACCAGCTGCGGAACC CTTCAATCCAGACCGGGAGGGTTGGCTGCTCAAGCTAGGGGGGCCGCGTGAAGACGTGGAAACGGCGCTGG TTCATCCTGACCGACAACTGCCTCTACTACTTCGAGTTCACCACTGACAAGGAGCCACGGGGAATTATAC CTCTTGAGAACCTCTCGGTGCAGAAGGTGGATGACCCCAAGAAGCCATTCTGCCTGGAGCTCTACAACCC TAGCTGCCGAGGCCAGAAAATCAAGGCCTGCAAGACCGATGGCGACGGCAGGGTGGTGGAGGGCAAGCAC GAATCGTACCGCATCTCAGCCACCAGTGCCGAGGAACGTGACCAGTGGATCGAGTCCATCCGAGCCAGCA 

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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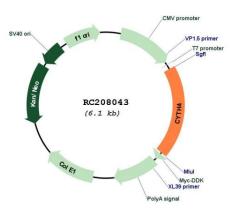
# SCD4 (CYTH4) (NM\_013385) Human Tagged ORF Clone – RC208043

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 013385.2, NP 037517.1</u>
RefSeq Size:	3138 bp
RefSeq ORF:	1185 bp
Locus ID:	27128
UniProt ID:	Q9UIA0
Cytogenetics:	22q13.1
MW:	45.7 kDa
Gene Summary:	This gene encodes a member of the PSCD family of proteins, which have 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 function as GEPs for ADP-ribosylation factors (ARFs), which are guanine nucleotide-binding proteins involved in vesicular trafficking pathways. This protein exhibits GEP activity in vitro with ARF1 and ARF5, but is inactive with ARF6. Alternatively spliced transcript variants have been found

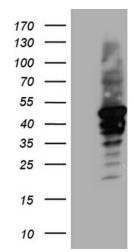
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for this gene. [provided by RefSeq, Dec 2015]

#### **Product images:**



Circular map for RC208043



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CYTH4 (Cat# RC208043, 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-CYTH4 (Cat# [TA811273])(1:2000). Positive lysates [LY415608] (100ug) and [LC415608] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY415608]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208043 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified CYTH4 protein (Cat# [TP308043]). The protein was produced from HEK293T cells transfected with CYTH4 cDNA clone (Cat# RC208043) using MegaTran 2.0 (Cat# [TT210002]).

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