

Product datasheet for **RC237564**

Cytohesin 1 (CYTH1) (NM_001292019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 1 (CYTH1) (NM_001292019) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYTH1
Synonyms:	B2-1; CYTOHESIN-1; D17S811E; PSCD1; SEC7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237564 representing NM_001292019 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAGAGGAACAACAGGTAGCCATGGGCAGGAAAAATTTAATATGGACCCTAAAAGGGGATCCAGT
TCTTAATAGAGAACGACCTCCTGAAGAACACTTGTGAAGACATTGCCAGTCTTATATAAAGCGAAGG
GCTCAACAAGACAGCCATCGGCGACTACCTAGGGGAGAGAGATGAGTTAATATCCAGGTTCTTCATGCA
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GGTACCCGGAGAGGCCAGAAGATCGACCCGGATGATGGAGGCGTTTGCCAGCGATATTGTCAGTGCAA
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ATGGGGGAGACCTGCCGGAGGAGCTCCTCCGGAATCTCTATGAGAGCATAAAAAATGAACCTTTAAAT
CCCAGAAGACGACGGGAATGACCTCACTCACACTTTCTCAATCCAGACCGAGAAGGCTGGCTATTGAAA
CTCGGAGGTGGCAGGTAAGACTTGAAGAGACGCTGGTTCATTCTGACTGACAACCTTTACTACT
TTGAGTATACCACGGATAAAGAGCCCGTGAATCATCCCTTTAGAGAATCTGAGTATCCGGGAGTGGA
GGACTCCAAAAACCAAAGTCTTTGAGCTTTATATCCCGACAATAAAGACCAAGTTATCAAGGCCTGC
AAGACCGAGGCTGACGGGCGGGTGGTGGAGGGGAACCACACTGTTTACCGGATCTCAGCTCCGACGCCCCG
AGGAGAAGGAGGAGTGGATTAAGTGCATTAAGCAGCCATCAGCAGGGACCCTTTCTACGAAATGCTCGC
AGCACGGAAAAAGAAGTCTCCTCCACGAAGCGACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC237564 representing NM_001292019
Red=Cloning site Green=Tags(s)

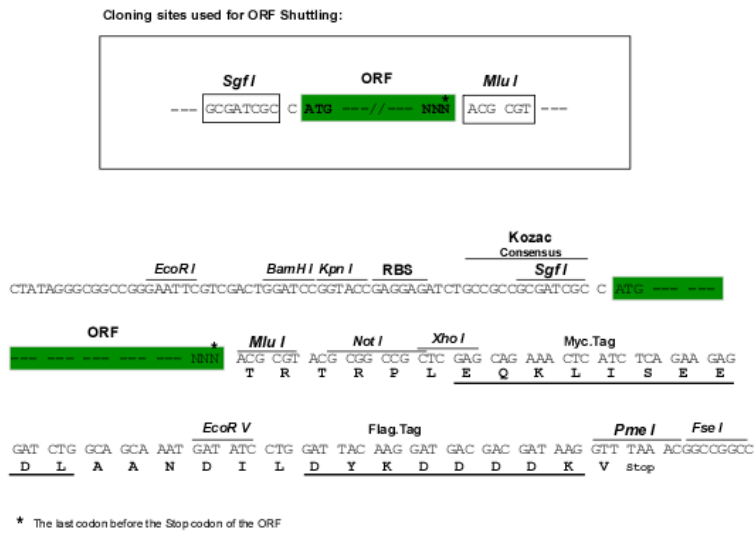
MQRNKQVAMGRKKFNMDPKKGIQFLIENDLLKNTCEDIAQFLYKGEGLNKTAIGDYLGDERDEFNIQVLHAFVELHEFTDLNLVQALRQFLWSFRLPGEAQKIDRMMEAFQRYCQCNGVVFQSTDTCYVLSFAIIMLNTSLHNPNVKDKPTVERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNDLTHTFNPDREGWLLKLGGRVKTWKRRWFILTDNCLYFYEYTTDKPRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQVIKACKTEADGRVVEGNHTVYRISAPTPEEKEEWIKCIKAAISRDPFYEMLAARKKKVSSSTRKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

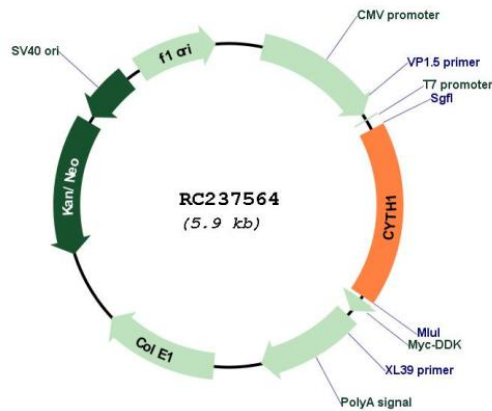
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001292019

ORF Size: 1017 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:	<ol style="list-style-type: none">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:	NM_001292019.1 , NP_001278948.1
RefSeq Size:	3329 bp
RefSeq ORF:	1020 bp
Locus ID:	9267
UniProt ID:	Q15438
Cytogenetics:	17q25.3
MW:	39.9 kDa
Gene Summary:	The protein encoded by this gene is a member of the PSCD family. Members of this family 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 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 gene is highly expressed in natural killer and peripheral T cells, and regulates the adhesiveness of integrins at the plasma membrane of lymphocytes. A pseudogene of this gene has been defined on the X chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]