

## Product datasheet for RC218099

### Cytohesin 1 (CYTH1) (NM\_017456) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 1 (CYTH1) (NM_017456) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cytohesin 1
Synonyms:	B2-1; CYTOHESIN-1; D17S811E; PSCD1; SEC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218099 representing NM_017456 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGGACGACAGCTACGTTCCAGTGACCTGACAGCAGAGGAGCGTCAAGAACTGGAGAACATCC  
GACGGAGAAAACAGGAGCTGCTGGCTGACATTCAGAGGCTGAAGGATGAGATAGCAGAAGTAGCTAATGA  
AATTGAAAACCTGGGATCCACAGAGGAAAGGAAAAACATGCAGAGGAACAACAGGTAGCCATGGGCAGG  
AAAAAATTAATATGGACCCTAAAAGGGGATCCAGTTCTTAATAGAGAACGACCTCCTGAAGAACACTT  
GTGAAGACATTGCCAGTCTTATATAAAGGCGAAGGGCTCAACAAGACAGCCATCGGCGACTACCTAGG  
GGAGAGAGATGAGTTAATATCCAGTTCTTCATGCATTTGTGGAGCTGCATGAGTTCACCTGATCTTAAT  
CTCGTCCAGGCACTACGGCAGTTCCTGTGGAGCTTCCGGCTACCCGGAGAGGCCAGAAGATCGACCCGGA  
TGATGGAGGCGTTTGGCCAGGATATTGTGAGTCAATAATGGCGTGTCCAGTCCACGGATACTTGTTA  
CGTCTCTCCTTTGCCATCATCATGTTGAACACCAAGTCTGCACAACCCCAATGTCAAAGATAAGCCCACT  
GTGGAGAGGTTTCAATGCCATGAACCGAGGCATCAATGATGGGGGAGACCTGCCGGAGGAGCTCCTCCGGA  
ATCTCTATGAGAGCATAAAAAATGAACCTTTAAAATCCCAGAAGACGACGGGAATGACCTCACTCACAC  
TTTCTTCAATCCAGACCGAGAAGGCTGGCTATTGAAACTCGGTGGCAGGGTAAAGACTTGGAAAGAGACGC  
TGGTTCATTCTGACTGACAACCTGCCTTTACTACTTTGAGTATACCAGGATAAGGAGCCCGTGGAATCA  
TCCCTTTAGAGAATCTGAGTATCCGGGAAGTGGAGGACTCCAAAAAACCAACTGCTTTGAGCTTTATAT  
CCCCGACAATAAAGACCAAGTTATCAAGCCTGCAAGACCGAGGCTGACGGGCGGGTGGTGGAGGGGAAC  
CACACTGTTTACCGATCTCAGCTCCGACGCCGAGGAGAAGGAGGAGTGGATTAAGTGCATTAAGCAG  
CCATCAGCAGGGACCTTTCTACGAAATGCTCGCAGCACGAAAAAGAAGGTCTCTCCACGAAGCGACA  
C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

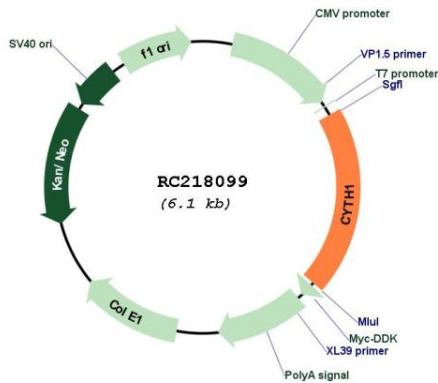


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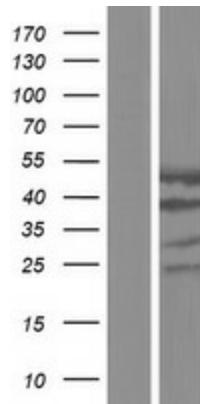


<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>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></ol>
<b>RefSeq:</b>	<a href="#">NM_017456.4</a>
<b>RefSeq Size:</b>	3308 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	9267
<b>UniProt ID:</b>	<a href="#">Q15438</a>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	Sec7, PH
<b>MW:</b>	46.2 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC218099



Western blot validation of overexpression lysate (Cat# [LY413760]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218099 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).