

Product datasheet for **RG216808**

Cytohesin 1 (CYTH1) (NM_004762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 1 (CYTH1) (NM_004762) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytohesin 1
Synonyms:	B2-1; CYTOHESIN-1; D17S811E; PSCD1; SEC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216808 representing NM_004762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGGACGACAGCTACGTTCCAGTGACCTGACAGCAGAGGAGCGTCAAGAACTGGAGAACATCC
GACGGAGAAAACAGGAGCTGCTGGCTGACATTCAGAGGCTGAAGGATGAGATAGCAGAAGTAGCTAATGA
AATTGAAAACCTGGGATCCACAGAGGAAAGGAAAAACATGCAGAGGAACAACAGGTAGCCATGGGCAGG
AAAAAATTAATATGGACCCTAAAAGGGGATCCAGTTCTTAATAGAGAACGACCTCCTGAAGAACACTT
GTGAAGACATTGCCAGTTCTTATATAAAGGCGAAGGGCTCAACAAGACAGCCATCGGCGACTACCTAGG
GGAGAGAGATGAGTTAATATCCAGTTCTTCATGCATTTGTGGAGCTGCATGAGTTCACCTGATCTTAAT
CTCGTCCAGGCACTACGGCAGTTCTGTGGAGCTTCCGGCTACCCGGAGAGGCCAGAAAGATCGACCCGGA
TGATGGAGGCGTTTGCCAGCGATATTGTGAGTCAATAATGGCGTGTCCAGTCCACGGATACTTGTTA
CGTCTCTCCTTTGCCATCATCATGTTGAACACCAGTCTGCACAACCCCAATGTCAAAGATAAGCCCACT
GTGGAGAGGTTTCATTGCCATGAACCGAGGCATCAATGATGGGGGAGACCTGCCGGAGGAGCTCCTCCGGA
ATCTCTATGAGAGCATAAAAAATGAACCCTTTAAAATCCCAGAAGACGACGGGAATGACCTCACTCACAC
TTTCTTCAATCCAGACCGAGAAGGCTGGCTATTGAACTCGGAGGTGGCAGGGTAAAGACTTGAAGAGA
CGCTGGTTCATTCTGACTGACAACCTTTACTACTTTGAGTATACCACGGATAAAGGAGCCCGTGGAA
TCATCCCTTTAGAGAATCTGAGTATCCGGGAAGTGGAGGACTCCAAAAACCAAACCTGCTTTGAGCTTTA
TATCCCGGACAATAAAGACCAAGTTATCAAGGCCTGCAAGACCGAGGCTGACGGGCGGGTGGTGGAGGGG
AACCACACTGTTTACCGATCTCAGCTCCGACGCCGAGGAGAAGGAGGAGTGGATTAAGTGCATTAAGG
CAGCCATCAGCAGGGACCCTTTCTACGAAATGCTCGCAGCACGAAAAAGAAGGTCTCCTCCACGAAGCG
ACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216808 representing NM_004762
 Red=Cloning site Green=Tags(s)

MEEDDSYVPSDLTAEERQELLENIRRRKQELLADIQRLKDEIAEVANEIENLGSTEERKNMQRNKQVAMGR
 KKFNMDDPKKGIQFLIENDLLKNTCEDIAQFLYKGEGLNKTAIGDYLGGERDEFNIQVLHAFVELHEFTDLN
 LVQALRQFLWSFRLPGEAQKIDRMMEAFQRYCQCNNGVFQSTDTCYVLSFAIIMLNTSLHNPVNDKDKPT
 VERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNLTHTFNPDREGWLLKLGGRVKTWKR
 RWFILTDNCLYFYEYTTDKPRGIIPLENLSIREVEDSKPNCFELYIPDNKDQVIKACKTEADGRVVEG
 NHTVYRISAPTPEEKKEWIKCIKAAISRDPFYEMLAARKKKVSSTKRH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004762

ORF Size: 1194 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:

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_004762.3](#)

RefSeq Size: 3311 bp

RefSeq ORF: 1197 bp

Locus ID: 9267

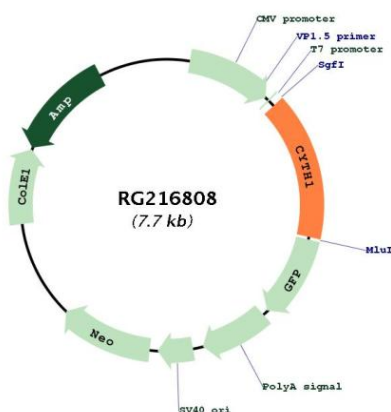
UniProt ID: [Q15438](#)

Cytogenetics: 17q25.3

Domains: Sec7, PH

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]

Product images:



Circular map for RG216808