

Product datasheet for **RG237563**

Cytohesin 1 (CYTH1) (NM_001292018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 1 (CYTH1) (NM_001292018) 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:	>RG237563 representing NM_001292018. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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ATCAAGGCTGCAAGACCGAGGCTGACGGGCGGGTGGTGGAGGGGAACCACTGTTACCGGATCTCA
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TACGAAATGCTCGCAGCACGGAAAAAGAAGGTCTCCTCCACGAAGCGACAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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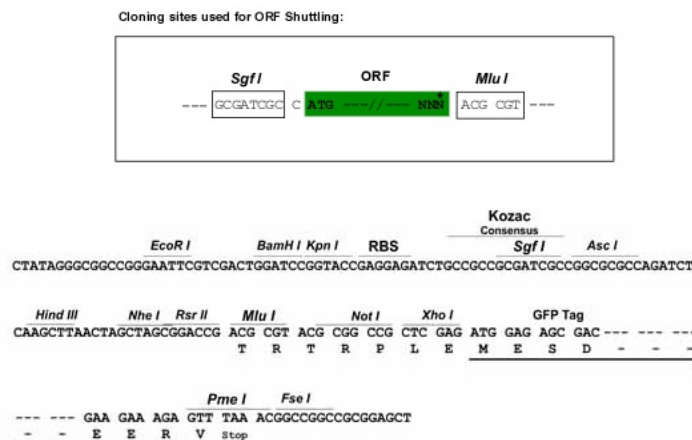
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237563
 Blue=ORF Red=Cloning site Green=Tag(s)

MQRNKQVAMGRKKFNMDPKKGIQFLIENDLLKNTCEDIAQFLYKGEGLNKTAIGDYLGDERDEFNIQVLH
 AFVELHEFTDLNLVQALRQFLWSFRLPGEAQKIDRMMEAFARQCQCNGGVFQSTDTCYVLSFAIIMLN
 TSLHNPVVKDKPTVERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNLTHTFNPDREGW
 LLKLGGRVKTWKRWFILTDNCLYYFEYTTDKPEPRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQV
 IKACKTEADGRVVEGNHTVYRISAPTPEEKKEEWIKCIKAAISRDPFYEMLAARKKKVSSTKRH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001292018

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).

RefSeq: [NM_001292018.1](#), [NP_001278947.1](#)

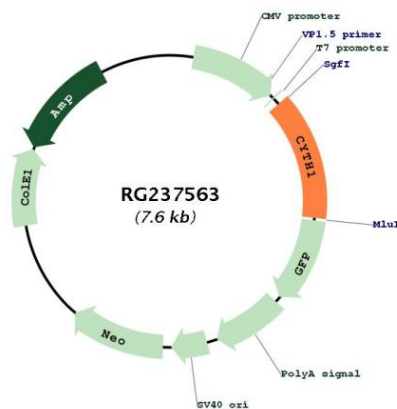
RefSeq Size: 3763 bp

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]

Product images:



Circular map for RG237563