

## Product datasheet for **RG237564**

### 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:	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:	>RG237564 representing NM_001292019. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGAGGAACAAACAGGTAGCCATGGGCAGGAAAAATTTAATATGGACCCTAAAAAGGGGATCCAG
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TGCAATAATGGCGTGTTCCAGTCCCGGATACTTGTACGTCCTCCTTTGCCATCATCATGTTGAAC
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ATCAAGGCTGCAAGACCGAGGCTGACGGCGGGTGGTGGAGGGAACCACTGTTACCGGATCTCA
GCTCCGACGCCGAGGAGAAGGAGGAGTGGATTAAGTGCATTAAGCAGCCATCAGCAGGGACCCCTTC
TACGAAATGCTCGCAGCACGGAAAAAGAAGGTCTCCTCCACGAAGCGACAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



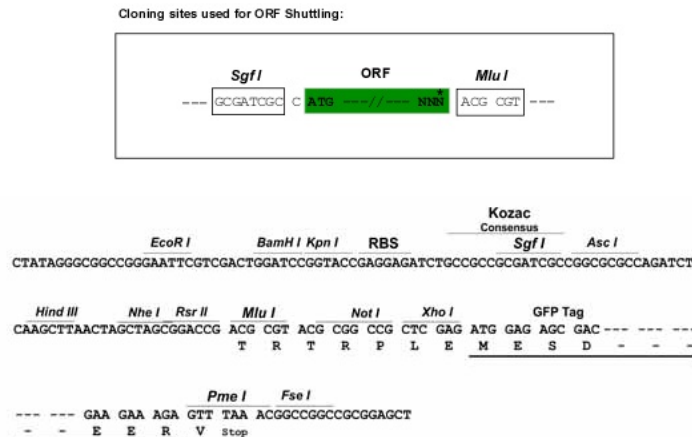
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**Protein Sequence:** >Peptide sequence encoded by RG237564  
 Blue=ORF Red=Cloning site Green=Tag(s)

MQRNKQVAMGRKKFNMDPKKGIQFLIENDLLKNTCEDIAQFLYKGEGLNKTAIGDYLGDERDEFNIQVLH  
 AFVELHEFTDLNLVQALRQFLWSFRLPGEAQKIDRMMEAFARQCQCNGGVFQSTDTCYVLSFAIIMLN  
 TSLHNPVVKDKPTVERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNLTHTFNPDREGW  
 LLKLGGRVKTWKRWFILTDNCLYYFEYTTDKPEPRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQV  
 IKACKTEADGRVVEGNHTVYRISAPTPKEKEEWIKCIKAAISRDPFYEMLAARKKKVSSTKRH  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

**RefSeq:** [NM\\_001292019.1](#), [NP\\_001278948.1](#)

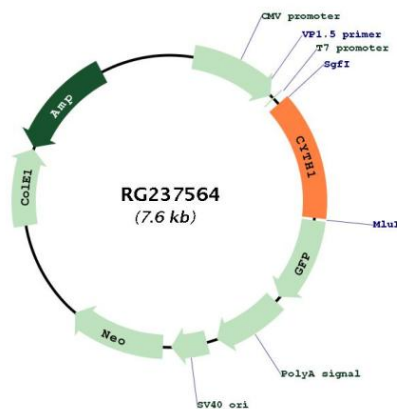
**RefSeq Size:** 3329 bp

**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]

### Product images:



Circular map for RG237564