

Product datasheet for **RG207179**

Cytohesin 2 (CYTH2) (NM_004228) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 2 (CYTH2) (NM_004228) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytohesin 2
Synonyms:	ARNO; CTS18; CTS18.1; cytohesin-2; PSCD2; PSCD2L; SEC7L; Sec7p-L; Sec7p-like
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207179 representing NM_004228 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACGGCGTCTATGAACCCAGACCTGACTCCGGAGGAGCGGATGGAGCTGGAGAACATCCGGC
GGCGGAAGCAGGAGCTGCTGGTGGAGATTCAGCGCCTGCGGGAGGAGCTCAGTGAAGCCATGAGCGAGGT
GGAGGGCTGGAGCCAATGAGGGCAGTAAGACCTTGCAACGGAACCGGAAGATGCCAATGGCAGGAAG
AAGTTCAACATGGACCCCAAGAAGGGGATCCAGTTCCTGGTGGAGAATGAACTGCTGCAGAACACACCCG
AGGAGATCGCCCGCTTCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATCGGGGACTACCTGGGGGA
GAGGGAAGAACTGAACCTGGCAGTGCTCCATGCTTTTGTGGATCTGCATGAGTTCACCGACTCAATCTG
GTGCAGGCCCTCAGGCAGTTTCTATGGAGCTTTCGCTACCCGGAGAGGCCAGAAAATTGACCGGATGA
TGGAGGCCTTCGCCCAGCGATACTGCCTGTGCAACCCCTGGGGTTTCCAGTCCACAGACACGTGCTATGT
GCTGTCTTCGCCGTCATCATGCTCAACACCAGTCTCCACAATCCCAATGTCCGGGACAAGCCGGGCCTG
GAGCGCTTTGTGGCCATGAACCGGGGCATCAACGAGGGCGGGGACCTGCCTGAGGAGCTGCTCAGGAACC
TGTACGACAGCATCCGAAATGAGCCCTCAAGATTCCTGAGGATGACGGGAATGACCTGACCCACACCTT
TTTCAACCCGACCGGGAGGGCTGGCTCCTGAAGCTGGGGGCCGGGTGAAGACGTGGAAGCGCGCTGG
TTTATCCTCACAGACAACTGCCTCTACTTGTGAGTACACCAGGACAAGGAGCCCGAGGAATCATCC
CCCTGGAGAATCTGAGCATCCGAGAGTGGACGACCCCGGAAACCGAAGTCTTTGAACCTTACATCCC
CAACAACAAGGGGAGCTCATCAAAGCTGCAAACTGAGGCGGACGGCCGAGTGGTGGAGGAAACAC
ATGGTGTACCGGATCTCGCCCCACGCAGGAGGAGAAGGACGAGTGGATCAAGTCCATCCAGGCGGCTG
TGAGTGTGGACCCCTTCTATGAGATGCTGGCAGCGAGAAAGAAGCGGATTCAGTCAAGAAGAAGCAGGA
GCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004228.7](#)

RefSeq Size: 4622 bp

RefSeq ORF: 1200 bp

Locus ID: 9266

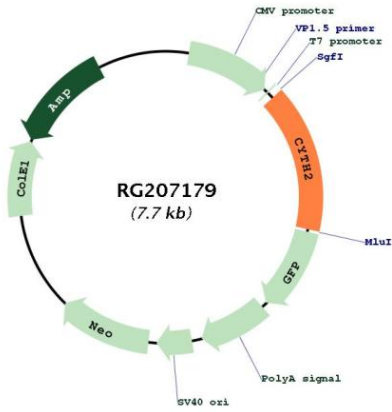
UniProt ID: [Q99418](#)

Cytogenetics: 19q13.33

Protein Families: Druggable Genome

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 (GEP) 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. The encoded protein exhibits GEP activity in vitro with ARF1, ARF3, and ARF6 and is 83% homologous to CYTH1. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RG207179