

Product datasheet for **SC124671**

Cytohesin 2 (CYTH2) (NM_004228) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 2 (CYTH2) (NM_004228) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytohesin 2
Synonyms:	ARNO; CTS18; CTS18.1; cytohesin-2; PSCD2; PSCD2L; SEC7L; Sec7p-L; Sec7p-like
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004228, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGACGGCGTCTATGAACCCAGACCTGACTCCGGAGGAGCGGATGGAGCTGGAGAACATCCGGC
GGCGGAAGCAGGAGCTGCTGGTGGAGATTGAGCGCCTGCGGGAGGAGCTCAGTGAAGCCATGAGCGAGGT
GGAGGGGCTGGAGGCCAATGAGGGCAGTAAGACCTTGCAACGGAACCGGAAGATGGCAATGGGCAGGAAG
AAGTTCAACATGGACCCCAAGAAGGGGATCCAGTTCCTGGTGGAGAATGAACTGCTGCAGAACACACCCG
AGGAGATCGCCCGCTTCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATCGGGGACTACCTGGGGGA
GAGGGAAGAACTGAACCTGGCAGTGCTCCATGCTTTTGTGGATCTGCATGAGTTCACCGACCTCAATCTG
GTGCAGGCCCTCAGGCAGTTTCTATGGAGCTTTCGCTACCCGGAGAGGCCAGAAAATTGACCGGATGA
TGGAGGCCTTCGCCAGGATACTGCCTGTGCAACCCTGGGGTTTTCCAGTCCACAGACAGTGCTATGT
GCTGTCCTTCGCCGTCATCATGCTCAACACCAGTCTCCACAATCCCAATGTCCGGGACAAGCCGGGCGCTG
GAGCGCTTTGTGGCCATGAACCGGGGCATCAACGAGGGCGGGGACCTGCCTGAGGAGCTGCTCAGGAACC
TGTACGACAGCATCCGAAATGAGCCCTCAAGATTCTGAGGATGACGGGAATGACCTGACCCACACCTT
CTTCAACCCGACCGGGAGGGCTGGCTCCTGAAGCTGGGGGCGGGTGAAGACGTGGAAGCGGCGCTGG
TTTATCCTCACAGACAACTGCCTCTACTACTTTGAGTACACCACGGACAAGGAGCCCCGAGGAATCATCC
CCCTGGAGAATCTGAGCATCCGAGAGGTGGACGACCCCGGAAACCGAACTGCTTTGAACTTTACATCCC
CAACAACAAGGGCAGCTCATCAAGCCTGCAAACTGAGGCGGACGGCCGAGTGGTGGAGGGAACCCAC
ATGGTGTACCGGATCTCGCCCCACGCAGGAGGAGAAGGACGAGTGGATCAAGTCCATCCAGGCGGCTG
TGAGTGTGGACCCCTTCTATGAGATGCTGGCAGCGAGAAAGAAGCGGATTTTCAGTCAAGAAGAAGCAGGA
GCAGCCCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004228 unedited CGAATTTTGTAAATACGACTCACTATAGGGCGGCCCGCAATTCGCACCAGGAGGAGGCGG CGGTGGCTCCCGGGGCGTTTGTAGCGGGCTACCCGAGCCCGCGGGCCAACGCGGATCCAG GCCCGACTGGCGGGACCGCCCGGATCCCCGCGGGCCTTCTAGCCGCCATGGAGGACG GCGTCTATGAACCCCAAGACCTGACTCCGGAGGAGCGGATGGAGCTGGAGAACATCCGGC GGCGGAAGCAGGAGCTGCTGGTGGAGATTGAGCGCCTGCGGGAGGAGCTCAGTGAAGCCA TGAGCGAGGTGGAGGGGCTGGAGGCCAATGAGGGCAGTAAGACCTTGCAACGGAACCGGA AGATGGCAATGGGCAGGAAGAAGTTCAACATGGACCCCAAGAAGGGGATCCAGTTCTTGG TGGAGAATGAACTGCTGCAGAACACACCCGAGGAGATCGCCCGCTTCTGTACAAGGGCG AGGGGCTGAACAAGACAGCCATCGGGGCTACCCTGGGGGAGAGGGAAGAAGTGAACCTG GCAGTGTCCATGCTTTTGTGGATCTGCATGAGTTCACCGACCTCAATCTGGTGCAGGCC CTCANGCAGTTTCTATGGAGNCTTCGCCTACCCGGAGAGGCCCCAGAAATTGACCGGATG ATGGNAGGCCTTCGCCAGCGATACTGCCTGTGCACCCTGGGGGTTTTTCAGTCACAGACC GTGCTTTGTGCTGTCTTCGCCTCATATGCTCACACCGTCTCACATCCCATGTCCGGACAG GCGGCCTGAGCGCTTTGTGGCATGACCGGGCATCACGAGCCGGGACTGNCTGAGAGCTG TCAGGAACCTGTACAGATCGAATGAGCCTCAGATCTGAGGAGACGGGAAGACTGACCAC ACTTTTAACGCCGGAAGGTGTCCTAAATGGAGGGGGCCCCGAAAAAGGAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_004228
Insert Size:	1800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_004228.4 , NP_004219.2
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]

Transcript Variant: This variant (2) lacks a 3-nucleotide exon in the PH domain region, compared to variant 1. This results in a protein (isoform 2) missing a single glycine residue, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.