

## Product datasheet for SC127412

### Cytohesin 3 (CYTH3) (NM\_004227) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 3 (CYTH3) (NM_004227) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytohesin 3
Synonyms:	ARNO3; cytohesin-3; GRP1; PSCD3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127412 sequence for NM_004227 edited (data generated by NextGen Sequencing)

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ATGGATGAAGACGGCGGCGGAGGGTGGTGGCGTGCCTGAAGACCTCTCATTAGAAGAG
AGAGAAGAACTTCTAGACATTCGTGCAAGAAAAAGGAACTTATTGATGACATTGAGAGG
CTGAAATATGAAATTGCAGAGGTGATGACAGAGATCGACAATCTAACTCCGTAGAGGAG
AGCAAAACGACTCAGAGGAACAAACAGATAGCCATGGGAAGAAAGAAATCAACATGGAT
CCCAAAAAGGGAATTCAGTTTCTAATAGAAAATGACCTGCTACAGAGTCCCCAGAAGAC
GTCGCCAGTTCCTTTATAAAGGAGAAGGCCTAAATAAGACCGTCATTGGGGACTACCTG
GGTGAAAGGGATGAATTTAATATTAAGTTCTTCAAGCCTTTGTTGAACTCCATGAGTTT
GCTGATCTCAACCTTGACAAGCCTTAAGGCAGTTCCTTATGGAGCTTCAGGCTGCCCGG
GAGGCGCAGAAGATTGATCGCATGATGGAGGCTTCGCTTCTCGTACTGCCTGTGCAAC
CCCGGGTCTTCCAGTCCACAGACACGTGCTACGTGCTGTCATTGCCATCATCATGCTC
AACACCAGCCTCCACAACCACAACGTGCGTGACAAGCCCACGGCAGAACGGTTTCATCGCC
ATGAACCGCGGCATCAACGAGGGCGGGACCTCCCTGAGGAGCTGCTGAGGAATTTGAT
GAGAGCATTAAGAACGAGCCATTTAAGATCCCGGAGGACGACGGGAACGACCTGACCCAC
ACCTTCTCAACCCGACCGGAGGGCTGGCTCCTGAAGCTGGGAGGGCGTGTGAAGACC
TGGAAGCGCCGGTGGTTCATCCTGACCGATAACTGCCTTATTACTTTGAATACACAACA
GATAAGGAGCCCAGGGGAATCATCCCGTTGGAAAACCTCAGCATCAGGGAGGTGGAGGAC
CCCCGAAACCCAACTGTTTTGAGCTCTACAATCCAGCCACAAAGGGCAGGTCATCAAG
GCCTGTAAGACGAGGCCGACGGCCGCTGGTAGAGGGGAACCATGTGGTGTACCGGATC
TCAGCCCCGAGCCGGAGGAGAAGGAGGAGTGGATGAAATCCATCAAAGCCAGTATCAGC
AGAGATCCCTTCTATGACATGTTGGCAACGAGGAAACGAAGGATTGCCAATAAAAAATAG

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Clone variation with respect to NM\_004227.3  
1032 t=>g



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004227 unedited  TATAGGGCGGCCGAATTCGGCACGAGGCTGCTGCCGGCCCCGGCTCGCCGGCTGCGG  GAGTGGCCTCAAGATGGATGAAGACGGCGGGCGGAGGGTGGTGGCGTGCCTGAAGACCT  CTCATTAGAAGAGAGAGAAGAACCTTCTAGACATTCGTGCGAAGAAAAAGGAACCTATTGA  TGACATTGAGAGGCTGAAATATGAAATTGCAGAGGTGATGACAGAGATCGACAATCTAAC  ATTCAGATAGAGAGAGAAAAAGGAAATTCAGTTTCTAATAGAAAATGACCTGCTACAGAG  TTCCCCAGAAGACGTGCCAGTTCCTTTATAAAGGAGAAGGCCTAAATAAGACCGTCAT  TGGGGACTACCTGGGTGAAAGGGATGAATTTAATATTAAGTTCTTCAAGCCTTTGTTGA  ACTCCATGAGTTTGTGATCTCAACCTTGTACAAGCCTTAAGGCAGTTCTTATGGAGCTT  CAGGCTGCCCGNGAGGCGCAGAAGATTGATCGCATGATGGAGGCTTTCGCTTCTCGCTA  CTGCTGTGCAACCCCGNGTCTTCCAGTCCACAGACACGTGCTACGTGCTGTCATTGCGC  CATCATCATGCTCAACACCAGCCTCCACAACCACAACGTGCGTGACAAGCCACGGCAGA  ACGGTTCATCGCCATGAACCGCGGCATCAACGAGGGCGGNGACCTCCCCTGAGAGCTGCT  GAAGAATTTGTATGAGAGCATTAGAACGAGCCATTTAGATCCCNAGACGACGGNACGA  CCTGACCCACACTTCTTACCCGACGCGAGGCTGGCTCTGAGCTGGA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004227 unedited  AAAGCTTGGACCGCGGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTAACA  ATACATGTGATTTTTATTTAGTGAACACAGTATCTGCAAGAGCTCTGACAGCCATCCACC  CTCCAATCTTACTTCACTTTACAACCAAGTATCAATAGAGGCTGTTCTTTCATGCGAGCT  GTGGGAGTATATACATCATTGAATAACAGACACTCCAGAAATCAACAGATGTACATTATT  TACATATTAATATTTACCGCAATAGAAATATTTTCTAAGAAAAAAGTCAATTTGTG  GTTTCTGTCTACCACAGACCTAATTCTCAGCAAAGCATATCTATGTAGATATCTGCGT  TTGTAACTTTTAAAAATAGGCATTGCTTTCTATGAAGCACTAAGTGTGCTCCATCTATAA  ATAGCTCCTATTTTTCAGTTTGGTACCACATTAAGTGCCTCAAAATGTTCTGTGACCCCA  AAGACACAAAGTTGTGCTTATCTGGGTCCAGGGTCAAGTCAAAATTAAGTCAAAATATGAA  CCAGGGCGGCCAGCAAGACAGGCTGGAAGGGCTGTGGCAGTCGCCCGCCCTCCCCGCGG  NGCTCCCCTCACTGCCTCCTGGCCTCTGTCTCTGGAAAAAAGTATCTTTGGCCAGAGTTG  GGACTAACAAATCAAGCCCTGCGCTCANACNTCAGGNTGGNGAGGAAGAGGACTGTGATT  GTGACGNCGCCTGCCAGGGTGAGGGACAAANACAGATGTGTNCTGTTTCAGGNCCGTCC  TGGTAGCGGCTGGCCCTGCGCAGTCACTGACCCAGATTTTCTGGACCGCCTGCCTCAAG  ATCAGCAGCATGATGGTCGACAGCCTCATGCTATACTGNNCTACACAGNCTGGAGCTAGC  GATTCCTTTGACCACAANACCTGGAGTCTACTCAGCACC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004227
<b>Insert Size:</b>	4470 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_004227.3](#), [NP\\_004218.1](#)

**RefSeq Size:** 4482 bp

**RefSeq ORF:** 1200 bp

**Locus ID:** 9265

**UniProt ID:** [O43739](#)

**Cytogenetics:** 7p22.1

**Domains:** Sec7, PH

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the PSCD (pleckstrin homology, Sec7 and coiled-coil domains) family. PSCD family members 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. This encoded protein is involved in the control of Golgi structure and function, and it may have a physiological role in regulating ADP-ribosylation factor protein 6 (ARF) functions, in addition to acting on ARF1. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longest isoform (a).