

Product datasheet for **SC104735**

Cytohesin 3 (CYTH3) (AK023609) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 3 (CYTH3) (AK023609) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytohesin 3
Synonyms:	ARNO3; GRP1; PSCD3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK023609, the custom clone sequence may differ by one or more nucleotides

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TACTTTCTAACAGTAGTATTTTTAGAATGGCAGCTATAAAGTAACTCCTGGACACAAGTATATACTGTG
CACTGAAAAAATATCCATCTACACAGCACCCAAGGGGAGGGCTGGGGGCACCGGCACGGGGGCAGCGTGC
AGCCCTGCCCTGTCAGGCTGTCAGACAAGCCCCGGGGGGCAGCAGGTGGGCTCGGGACGGGCTGGGGGAG
GGACGGCCATGGCACTTGGGGGCTCCAGGGTGAATCCCATGAGGCCTCCCTTCAACCAGGCTTTTTGGCC
CCACAAATACTTTAAGCAAATCATTAAAAATTATAACAGTTAATGTTTTGGGGTGTTTAGGCTGTAAGTGTG
CTAACTCCTAGGAAACAGCCTTTTCCCTGGACACAGATGGTCCATACGCTGAGCCACGTGAAACTGCTGA
TGTTTTGTTTAGATGCACACACATGGCAGCGTTTCATACAGGTCAGCAGGTTAGACCAGGCTTTTGACCAT
ATTCATCGCTATTTAAACCTGTGGCAAATGAACGCTTATTTTACAGACTTTCTAATTTGACCAGATTT
CTTAATGAATAGACACAGAATTAATAAAAACAGTCTCACCCATGTAGTGCGCCGTGCTCTGAGAGAGG
TGCCCTCCCTACGAGGAGGAAGAACAGGCCCTGGGGTGCAGAGGCCCGGCACGTAGAGAACCCAGATAG
ACGCCGGTGGTGGAACTGGTCAAACCTCCACGCCCGCTGGGAGGTTGTCAGGTTGCTGTGGATGTAAGGA
TAGGAGGTGCCAGTGCCTCCGCTCAAGGAAGGCTGGATCTGGGCCCCACCTACAGAGAGGGCTCAGGGCT
GGACCGGGGGCATTGTGTGCTTGGGCCGACCCGGGCCGGTGGCAGACGCTGTTCTCTGTCGGGAGATTTG
CGTCCCCAGGACCTGTTACACAGTGGGCTGTTGGGTTGGTGGCTGGCTTTTCTCTATGGACTTCTCT
TCTGCCCCACCTGCATAGGCACACACCTTGAATCTGCACCCTCTGGAGGGCATCTGTACTCCTGTGC
AAAATGCCAGTCCAGAGACAAAACCTCAGACTTTGTGCACCTAGGTTTCTTCTCAGCAGCGGAGACTG
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GTAGCTTAAGTCACTAGACTGCAGAGGGTCCGAGGCCAGAAACCCCTGCTCTGCATCAGACTTTCA
TTCCCAGTTCCTAGGCTTTGTTACTGATACCTCAAATCGGAAGTTTTAGTTCTGAGAAAAGCAAGTCA
CGCTCTTGAAATGCCTGACTGGTAGATATGCAACTCTGGCTCCAGTCTTCCATGAAAAATAATGCTGCC
TGGACCCCAACCCAGACCACACTGACGGCCGGCTCCGGCGGTGCCACCCCTCAGGCTGGCCCGGCAC
CCAAGACTGGCCACAGCCAGCTCTGTCAGCATGTTGTGCTCGGACAAGCTGTTTCTTCTTGACCAAC
CCAGGTGTGACCTGGGGATGCAGAGCTTCTGTTTTGGGTGTTGGGAGGAGCAGCAGGAAGGAGTCGCCA
GATGATCAAGCTCCCCCTTGTGTCATCTGTGAATGAGCTTCGCCAGGTGGTGGCACCTGGGAGCCAT
GCAGAGGCTGTGGTGTGAGTTAGACTCCAGGTAATTTGGTCAAAGGAAATCGCTAGCTCCAGGCTG
TGTTAGGACAGTATTAGCATGAAGGCTGTGCGACCATCATGCCTGCTGATCCTTGAGGCAGGCTGGTCC
AGAAAACCTCTGGGTCAGTGAATGCGCAGGGCCAGCCGCTACCAGGACGGCCCTGAAACAGGACACATCTG
TTTTTTGTCCCTACCCTGGGCAGGCCGGTCAACATCACAGTCTCCTCCTCCCCACCCTGACGCTGA
GCGCAGGGCTTGAATTGTTAGTCCAACTCTGGCCAAAGATACTTTTTCCAGAGACAGAGGCCAGGAGGC
AGTGAGGGGAGCCCCGCGGGGAGGCGGGCGGACTGCCACAGCCCTTCCAGCCTGTCTTGCTGGCCGCC
TGGTTCATATTTGAGTTAATTGTAAGTACTGACCTGGACCCAGATAAGCAGCAACTTTGTGCTTTGGGGTC
ACAGAACATTTTGGGCAGTTAATGTGGTACCAAACGAAAATAGGAGCTATTTATAGATGGAGCAGCA
CTTAGTGCTTCATAGAAAGCAATGCCTATTTTTAAAGTTACAAACGCAGATATCTACATAGATAGCTTT
GCTGAGAAGTTAGGCTGTGGTAGACCAGAAACCAAAATTGACTTTTTTTCTTAGAAAAATTTCTATT
TGCGGTAATATAGTAATATGTAATAATGTACATCTGTTGATTCTGGAGTGTCTGTTATTCAATGATG
TATATACTCCACAGCTCGCATGAAGGAACAGCCTCTATTGATACTTGGTTGAAAAGTGAAGTAAGATTG
GAGGGTGGATGGCTGTCAGAGCTTGCAGATACTGTGTTCACTAAATAAAAATCACATGTATTGTT
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK023609 unedited</p> <p>AAAGGTGCAGGATTTGTAACACGATTCACCTNAGGGCGGCACGCGAATTCGCACCAGNAA AGCCACTGTTTTNATAGCAAAACAGNAAAGGAAAAGCTACCAGTTTTTTATTCAGAATT TTTCTCAGATATATAGGATTATAGCTTTTATATGCCTTTTTATATTCTGAAATTATAACA AAAGATACTTTCTAACAGTAGTATTTTTAGAATGGCAGTTATAAAGTTAACTCCTGGACA CAAGTATATACTGGGTGCACTGAAAAAATATCCATCTACACAGCACCCAAGGGGAGGGCT GGGGGCACCGGCACGGGGCAGCGTGCAGCCCTGCCCTGTCAGGCTGTCAGACAAGCCCC GGGGGCAGCAGGTGGGCTCGGGACGGGCTCGGGGAGGGACGGCCATGGCACTTGGGGGC TCCAGGGTGACTCCCATGAGGCCTCCCTTCAACCAGGCTTTTTGGCCCCAATACTTT AAGCAAATCATTAAAATTATAACAGTTAATGGTTTGGGGTGTTTAGGCTGTAACGCTA ACTCCTAGGAAACAGCCTTTTCCCTGGACACAGATGGTCCATACGCTGAGCCACGTGAAA CTGCTGATGTTTTGTTAGATGCACACACATGGCAGCGTTTCATACAGGTCAGCAGGTTA GACCGGCTTTTGACCATATTCATCGCTATTTAAACCTGTGGCAAATGAACGCTATTTT TACAGACTTTCTAATTTGACCAGATTTCTAATGAATAGACACAGAATTAAC TAANAACA GTCTACCCCATGTAGTGCGCCGTGCTCCTGAGAGAGGTGCCCTCCCTACGAGGAGGGAA GAAACAGCCCTGGGGTGCAGAGGCCCGCACGTAGAGAACCANTAGACGCCGGTGTGAA CTGGTCAACTCCACGCCGCTGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK023609 unedited</p> <p>AGTTAAATCCTTTTTTTTTTAAACAATACATGTGATTTTTATTTAGTGAACACAGTATCTG CAAGATCTCTGACAGCCATCCACCCTCCAATCTTACTTCACTTTACAACCAAGTATCAAT AGAGGCTGTTCCCTCATGCGAGCTGTGGGAGTATACATCATTGAATAACAGACTCC AGAAATCAACAGATGTACATTATTTACATATTACTATATTTACCGCAAATAGAAATATTT TCTAAGAAAAAAGTCAATTTGTGGTTTCTGGTCTACCACAGACCTAACTTCTCAGCAAA GCATATCTATGTAGATATCTGCGTTTGTAACTTTAAAAATAGGCATTGCTTTCTATGAAG CACTAAGTGCTGCTCCATCTATAAATAGCTCCTATTTTCAGTTTGGTACCACATTAACCT GCCCCAAAATGTTCTGTGACCCCAAGACAAAAGTTGCTGCTTATCTGGGTCCAGGGTC AGTACAATTAACCTCAAATATGAACCAGGGCGCCAGCAAGACAGGCTGGAAGGGCTGTG GCAGTCGCGCGCCCTCCCGCGGGCTCCCTCACTGCCTCCTGGCCTGTGCTCTGGA AAAAAGTATCTTTGGCCAGAGTTGGGACTAACAAATCAAGCCCTGCGCTCAGACNCAAG GTGGGGAGGAAGAGGACTGTGATTGTGACGCGGCCTGCCAGGGTGAGGGACAAAAAAG ATGTGTCCTGTTTCAGGNCCGCTCCTGGTAGCGGCTGGCCCTGCGCAGTCACTGACCCAGA GTTTTCTGGGACCAGCCTGCCTCAGGGATCAACAGCATGATGGTGCACAGCCTTC</p>
Restriction Sites:	NotI-NotI
ACCN:	AK023609
Insert Size:	3000 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:

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: [AK023609.1](#)

RefSeq Size: 2587 bp

RefSeq ORF: 2587 bp

Locus ID: 9265

Cytogenetics: 7p22.1

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]