

Product datasheet for SC110039

Cytohesin 1 (CYTH1) (NM_004762) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytohesin 1 (CYTH1) (NM_004762) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytohesin 1
Synonyms:	B2-1; CYTOHESIN-1; D17S811E; PSCD1; SEC7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110039 sequence for NM_004762 edited (data generated by NextGen Sequencing)

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ATGGAGGAGGACGACAGCTACGTTCCAGTGACCTGACAGCAGAGGAGCGTCAAGAACTG
GAGAACATCCGACGGAGAAAACAGGAGCTGCTGGCTGACATTGAGAGGCTGAAGGATGAG
ATAGCAGAAGTAGCTAATGAAATTGAAAACCTGGGATCCACAGAGGAAAGGAAAAACATG
CAGAGGAACAAACAGGTAGCCATGGGCAGGAAAAATTTAATATGGACCTAAAAAGGGG
ATCCAGTCTTAAATAGAGAACGACCTCCTGAAGAACAACCTGTGAAGACATTGCCAGTTC
TTATATAAAGGCGAAGGGCTCAACAAGACAGCCATCGGCGACTACCTAGGGGAGAGAGAT
GAGTTTAAATCCAGTCTTTCATGCATTTGTGGAGCTGCATGAGTTCAGTCTTAAT
CTCGTCCAGGCACTACGGCAGTTCCTGTGGAGCTTCCGGCTACCCGGAGAGGCCAGAAG
ATCGACCGGATGATGGAGGCGTTTGCCAGCGATATTGTCAGTGAATAATGGCGTGTTTC
CAGTCCACGGATACTTGTACGTCTCTCTTTGCCATCATCATGTTGAACACCAGTCTG
CACAAACCCAATGTCAAAGATAAGCCCACTGTGGAGAGGTTTCATTGCCATGAACCGAGGC
ATCAATGATGGGGGAGACCTGCCGAGGAGCTCCTCCGGAATCTCTATGAGAGCATAAAA
AATGAACCTTTAAAAATCCAGAAAGACGACGGGAATGACCTCACTCACACTTTCTCAAT
CCAGACCGAGAAGGCTGGCTATTGAAACTCGGAGGTGGCAGGGTAAAGACTTGGAAGAGA
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CCCCGTGGAATCATCCCTTTAGAGAATCTGAGTATCCGGGAAGTGAGGACTCCAAAAAA
CCAAACTGCTTTGAGCTTTATATCCCGACAATAAAGACCAAGTTATCAAGGCCTGCAAG
ACCGAGGCTGACGGGCGGGTGGTGGAGGGGAACCACTGTTTACCGGATCTCAGCTCCG
ACGCCCGAGGAGAAGGAGGAGTGATTAAGTGCATTAAGCAGCCATCAGCAGGGACCCT
TTCTACGAAATGCTCGCAGCACGGAAAAAGAAGGTCTCTCCACGAAGCGACACTGA

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Clone variation with respect to NM_004762.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004762 unedited GTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCGAGCGGGG CGCGGGTGGCGCGCGGGACGCGAGCGCGAGCCGGAGCGCGAGCCCGCTCCCGCACC ATGGAGGAGGACGACAGCTACGTTCCAGTGACCTGACAGCAGAGGAGCGTCAAGAACTG GAGAACATCCGACGGAGAAAACAGGAGCTGCTGGCTGACATTAGAGGCTGAAGGATGAG ATAGCAGAAGTAGCTAATGAAATTGAAAACCTGGGATCCACAGAGGAAAGGAAAAACATG CAGAGGAACAAACAGGTAGCCATGGGCAGGAAAAATTTAATATGGACCCTAAAAAGGGG ATCCAGTTCTTAATAGAGAACGACCTCCTGAAGAACACTTGTGAAGACATTGCCAGTTC TTATATAAAGGCCAAGGGCTCAACAAGACAGCCATCGGGACTACCTAGGGGAGAGAGAT GAGTTTAAATCCAGTTCTTCATGCAATTTGTGGAGCTGCATGAGTTCACTGATCTTAAT CTCGTCCAGGCACTACGGCAGTTCTGTGGAGCTTCCGGCTACCCGGAGAGGCCAGAAG ATCGACCGGATGATGGAGGCGTTTCCAGCGATATTGTCAGTGAATAATGGCGTGTC CAGTCCACGGATACTTGTACGTCCTCCTTTGCCATCATGTTGAACACCAGTCTG CACAACCCATGTCAAAGATAAGCCCACTGTGGAGAGGTTCAATGCCATGAACCGAGGCA TCAATGATGGGGAGACCTGCCGNAGAGCTCCTTCGGAATCTCTATGAGAGCATAAAA TGAACCCTTAAATCCCAGAGACGACGGGATGACCTACCACACTTTCTCATCCAGACG ANAAGCTGGCTATGAACT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004762 unedited GTTTTTTGTGTCAGTGCCTTGGCGTAGTTTACAAGGGCAAAAACAAACAAAAACA ATTAGAATAATTATTTCTAAAAACCTGTCAACAACCTTCAGTCATTTCTTTATATTTT TGTATTTTGACAAAACCTCTTTTAAACAAATACAAAATAATCTAAAAGGAGAAAAACTAT ACATAGATTATTTACACCTCTGATAAATAGACTAATACTGACCCAGGTGCCTCTCTGTCT AGGAAACACTTGAGAACCAGGCCAGGGCCCGGGCCAGCTGGACAGGCTCCAGCACCGGCC CAAACACGCCAGACCTCGGCAGGCACCACCTGGTTCTCCACCCAGAAAGTTCAAGTTT CCAGCCTGGACCCTCTTCTGTCAACCCTACAAGCTCTGGCACAAAAGTGCCATAAGCCAT TCCCTCCAGGTAGGATCTACAAAAGTGGCGGGGAGGGAGGTGACAGACTGTCCCCCTCT ATTCTCCCACTCTCTGCAAAAAGCTATTTCCAGAGATGCTCGCAACCCATAAAGGA TCAGAGGAGCCGTGGCGACGCGGCCCTGTGAAAACCCGAGCTCCTCCACTGCCTCCTC AGGGCTGCGCCCTGCACCGCCCTGGTCCANGGTCTGTGGAGGGGCGGGCGAGACGGCC AGCCAGCCAGCCACTGCTCTGCCTGCACTGGCATGCTTGGCCCTGCCGAGTGGCAGGA GCTGCCCTGAGAGTCCCTGAAAGACGGNAAGAAAATGCGTGGTGTACGGCTCCTTTATAC TGAATTGAGAGGGCAGGGCCAGCTACCCAGGCCTGCAGGGGAAAAAGAATGCGAGAGGCA TCCGCCCCCCTTCTCCATGTCCCCAGGACAATAAAGGCCCTTTCCCTTAGGGGCCA CCCAAATGCCTCCAGAGTNCAGTTGGGGCGTTCCGGCAAAAAGCCGAACCTTAGGGGAC GGGAAAGCTCTCTTTCTCTCAAAGGTTGAGCTGTGGAGAGTACCCCATAGAAGTTTTCG GC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004762
Insert Size:	3520 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: [NM_004762.1](#), [NP_004753.1](#)

RefSeq Size: 3311 bp

RefSeq ORF: 1197 bp

Locus ID: 9267

UniProt ID: [Q15438](#)

Cytogenetics: 17q25.3

Domains: Sec7, PH

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]

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