

Product datasheet for SC313294

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Cytohesin 1 (CYTH1) (NM 017456) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cytohesin 1 (CYTH1) (NM_017456) Human Untagged Clone

Tag: Tag Free CYTH1 Symbol:

Synonyms: B2-1; CYTOHESIN-1; D17S811E; PSCD1; SEC7

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC313294 representing NM_017456.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGAGGACGACAGCTACGTTCCCAGTGACCTGACAGCAGAGGAGCGTCAAGAACTGGAGAACATC CGACGGAGAAAACAGGAGCTGCTGGCTGACATTCAGAGGCTGAAGGATGAGATAGCAGAAGTAGCTAAT AGGAAAAAATTTAATATGGACCCTAAAAAGGGGATCCAGTTCTTAATAGAGAACGACCTCCTGAAGAAC ACTTGTGAAGACATTGCCCAGTTCTTATATAAAGGCGAAGGGCTCAACAAGACAGCCATCGGCGACTAC CTAGGGGAGAGAGATGAGTTTAATATCCAGGTTCTTCATGCATTTGTGGAGCTGCATGAGTTCACTGAT CTTAATCTCGTCCAGGCACTACGGCAGTTCCTGTGGAGCTTCCGGCTACCCGGAGAGGCCCAGAAGATC GACCGGATGATGGAGGCGTTTGCCCAGCGATATTGTCAGTGCAATAATGGCGTGTTCCAGTCCACGGAT ACTTGTTACGTCCTCTCTTTGCCATCATGTTGAACACCAGTCTGCACAACCCCAATGTCAAAGAT AAGCCCACTGTGGAGAGGTTCATTGCCATGAACCGAGGCATCAATGATGGGGGAGACCTGCCGGAGGAG CTCCTCCGGAATCTCTATGAGAGCATAAAAAATGAACCCTTTAAAATCCCAGAAGACGACGGGAATGAC TGGAAGAGCCTGGTTCATTCTGACTGACAACTGCCTTTACTACTTTGAGTATACCACGGATAAGGAG CCCCGTGGAATCATCCCTTTAGAGAATCTGAGTATCCGGGAAGTGGAGGACTCCAAAAAACCAAACTGC TTTGAGCTTTATATCCCCGACAATAAAGACCAAGTTATCAAGGCCTGCAAGACCGAGGCTGACGGGCGG GTGGTGGAGGGGAACCACACTGTTTACCGGATCTCAGCTCCGACGCCCGAGGAGAAGGAGGAGTGGATT AAGTGCATTAAAGCAGCCATCAGCAGGGACCCTTTCTACGAAATGCTCGCAGCACGGAAAAAGAAGGTC

TCCTCCACGAAGCGACACTGA

ACGCGTACGCGCCCCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

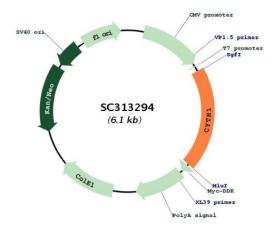
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul





Plasmid Map:



ACCN: NM_017456 **Insert Size:** 1194 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: <u>NM 017456.3</u>

 RefSeq Size:
 3363 bp

 RefSeq ORF:
 1194 bp

 Locus ID:
 9267

 UniProt ID:
 Q15438

Cytogenetics: 17q25.3



Cytohesin 1 (CYTH1) (NM_017456) Human Untagged Clone - SC313294

Domains: Sec7, PH MW: 46.4 kDa

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 (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.