

## Product datasheet for **SC316956**

### CD98 (SLC3A2) (NM\_001012662) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD98 (SLC3A2) (NM_001012662) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD98
Synonyms:	4F2; 4F2HC; 4T2HC; CD98; CD98HC; MDU1; NACAE
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC316956 representing NM\_001012662.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTCGATTCGCCGCCAGTTGCCTGGCTCACAT
TCGGAGGCTGGTGTCCAGGGTCTCAGCGGGGGACGACTCAGAGACGGGTCTGACTGTGTTACCCAG
GCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCTGCCTTAGCTTCCAAGAATGCTGAGGTTACAGTA
GAAACGGGGTTTACCATGTTAGCCAGGCTGATATTGAATTCCTGACCTCAATTGATCCGACTGCCTCG
GCCTCCGGAAGTCTGGGATTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAG
CTGAATGAGTTAGAGCCCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGA
GCCGAGAAGAATGGTCTGGTGAAGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGAGCCCGGCTAAG
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GCACTGCTGCTGCTTCTGGCTCGGCTGGCTCGGCATGCTTGTGGTCCGTGGTATAATCGTGCGA
GGCCCGCTTGTGCGGAGCTACCGGCGCAGAAGTGGTGGCACACGGGCGCCCTCTACCGCATCGGCGAC
CTTCAGGCCTTCCAGGGCCACGGCGCGGCAACCTGGCGGGTCTGAAGGGCGTCTCGATTACCTGAGC
TCTCTGAAGTGAAGGGCCTTGTCTGGGTCCAATTCACAAGAACCAGAAGGATGATGTCGCTCAGACT
GACTTGCTGCAGATCGACCCCAATTTGGCTCCAAGGAAGATTTGACAGTCTCTTGAATCGGCTAAA
AAAAAGAGCATCCGTGTCATTCTGGACCTTACTCCCACTACCGGGTGAGAAGTCTGTTCTCCACT
CAGGTTGACACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTGGTGAAGTGGCGTGGATGGG
TTCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATACACC
AAGGGCTCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCTCCGACCTTCCAGCAGATCCTGAGC
CTACTCGAATCCAACAAGACTTGTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGAG
CATACAAAATCCCTAGTCACACAGTATTTGAATGCCACTGGCAATCGCTGGTGCAGCTGGAGTTTGTCT
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CTGCCAGGGACCCCTGTTTTAGCTACGGGGATGAGATTGGCCTGGATGCAGCTGCCCTTCTGGACAG
CCTATGGAGGCTCCAGTCATGCTGTGGGATGAGTCCAGCTTCCCTGACATCCAGGGGCTGTAAGTGCC
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CAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGACTTCCACGCTTCTCCGCTGGGCTGGACTCTTC
TCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTGCTTAACCTTTGGGATGTGGCCTC
TCGGCTGGACTGCAGGCCTCCGACTGCCTGCCAGCGCCAGCCTGCCAGCCAAGGCTGACCTCCTGCTC
AGCACCCAGCCAGGCCGTGAGGAGGGCTCCCCTTTGAGCTGGAACGCCCTGAAACTGGAGCTCACGAA
GGGCTGCTGCTCCGCTTCCCCTACGCGGCCTGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
```

**Restriction Sites:** Sgfl-RsrII  
**ACCN:** NM\_001012662  
**Insert Size:** 1896 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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:** [NM\\_001012662.1](#)

**RefSeq Size:** 2318 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 6520

**UniProt ID:** [P08195](#)

**Cytogenetics:** 11q12.3

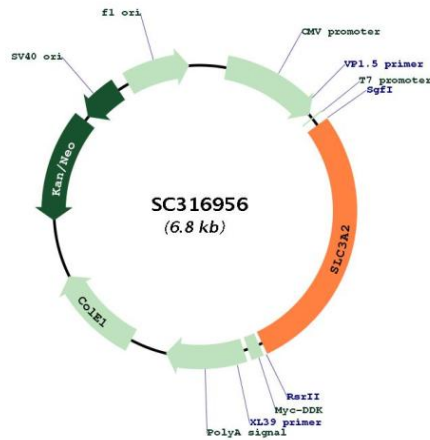
**Protein Families:** Transmembrane

**MW:** 68.1 kDa

**Gene Summary:**

This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intracellular calcium levels and transports L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (b).

**Product images:**

Circular map for SC316956