

## Product datasheet for **SC127353**

### CD98 (SLC3A2) (NM\_002394) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | CD98 (SLC3A2) (NM_002394) Human Untagged Clone |
| Tag:                      | Tag Free                                       |
| Symbol:                   | CD98   |
| Synonyms:                 | 4F2; 4F2HC; 4T2HC; CD98; CD98HC; MDU1; NACAE   |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>               |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |



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Fully Sequenced ORF: >OriGene ORF within SC127353 sequence for NM\_002394 edited (data generated by NextGen Sequencing)

```
ATGGAGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTCGATTCCGCGCCAGTTGCCT
GGCTCACATTCGGAGGCTGGTGTCCAGGGTCTCAGCGCGGGGACGACTCAGAGTTGGGG
TCTCACTGTGTTGCCAGACTGGTCTCGAACTCTTGGCCTCAGGTGATCCTTTCCCTCA
GCTTCCCAGAATGCCGAGATGATAGAGACGGGGTCTGACTGTGTTACCCAGGCTGGTCTT
CAACTCTTGGCCTCAAGTGCCTCCTGCCTTAGCTTCCAAGAATGCTGAGGTTACAGGC
ACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAATGAGTTAGAGCCC
GAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAG
AATGGTCTGGTGAAGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGAGCCGCGGCTAAG
TTCACGGGCTGTCCAAGGAGGAGCTGCTGAAGGTGGCAGGCAGCCCCGGCTGGGTACGC
ACCCGCTGGGCACTGCTGCTGCTCTTCTGGCTCGGCTGGCTCGGCATGCTTGCTGGTGCC
GTGGTCATAATCGTGGCAGCGCCGCTTGTGCGGAGCTACCGGCGCAGAAGTGGTGGCAC
ACGGGCGCCCTTACCGCATCGGCGACCTTCAGGCCTTCCAGGGCCACGGCGGGGCAAC
CTGGCGGGTCTGAAGGGGCTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTC
CTGGGTCCAATTCACAAGAACCAGAAGGATGATGTCGCTCAGACTGACTTGTGTCAGATC
GACCCCAATTTTGGCTCCAAGGAAGATTTTACAGTCTCTTGCAATCGGCTAAAAAAAAG
AGCATCCGTGTCATTCTGGACCTTACTCCCAACTACCGGGGTGAGAACTCGTGGTTCTCC
ACTCAGTTGACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTGGCTGCAAGCT
GGCGTGGATGGGTTCCAGGTTCCGGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTG
GCTGAGTGGCAAATATCACCAAGGGCTTCAGTGAAGACAGGCTCTTGATTGCGGGGACT
AACTCCTCCGACCTTCAGCAGATCCTGAGCCTACTCGAATCCAACAAAGACTTGCTGTTG
ACTAGCTCATACCTGCTGATTCTGGTTCTACTGGGGAGCATACAAAATCCCTAGTCACA
CAGTATTTGAATGCCACTGGCAATCGCTGGTGCAGCTGGAGTTTGTCTCAGGCAAGGCTC
CTGACTTCCTTCTTGCCGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTACCCTG
CCAGGGACCCCTGTTTTAGCTACGGGGATGAGATTGGCCTGGATGCAGCTGCCCTTCT
GGACAGCCTATGGAGGCTCCAGTCATGCTGTGGGATGAGTCCAGCTTCCCTGACATCCCA
GGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCCTGGCTCCCTCCTT
TCCTTGTCCGGCGGCTGAGTGACCAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGAC
TTCCACCGGTTCTCCGCTGGGCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAAT
GAGCGTTTTCTGGTAGTGCTTAACCTTTGGGGATGTGGGCTCTCGGCTGGACTGCAGGCC
TCCGACCTGCCTGCCAGCGCCAGCCTGCCAGCCAAGGCTGACCTCCTGCTCAGCACCCAG
CCAGGCCGTGAGGAGGGCTCCCTCTTGAAGCTGGAACGCCTGAAACTGGAGCCTCACGAA
GGGCTGCTGCTCCGCTTCCCCTACGCGGCTGA
```

Clone variation with respect to NM\_002394.5

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002394 unedited  
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAGATCACTGCCTCACGGC  
 GATCCTGGACTGACGGTCACGACTGCCTACCCTCTAACCTGTTCTGAGCTGCCCTTGC  
 CCACACACCCAAACCTGTGTGCAGGATCCGCCTCCATGGAGCTACAGCCTCCTGAAGCC  
 TCGATCGCCGTGTGTGATTCCGCGCCAGTTGCCTGGCTCACATTCGGAGGCTGGTGTG  
 CAGGGTCTCAGCGCGGGGACGACTCAGAGTTGGGGTCTCACTGTGTTGCCAGACTGCT  
 CTCGAACCTTTGGCCTCAGGTGATCCTCTCCCTCAGCTTCCCAGAATGCCGAGATGATA  
 GAGACGGGGTCTGACTGTGTTACCCAGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCT  
 CCTGCCTTAGCTTCCAAGAATGCTGAGGTTACAGGCACCATGAGCCAGGACACCGAGGTG  
 GATATGAAGGAGGTGGAGCTGAATGAGTTAGAGCCCGAGAAGCAGCCGATGAACGCGCG  
 TCTGGGGCGCCATGTCCCTGGCGGGAGCCGAGAAGAATGGTCTGGTGAAGATCAAGGTG  
 GCGGAAGACGAGGCGGAGGCGGCAGCCGCGCTAAGTTCACGGGCTGTCCAGGAGGAGC  
 TGCTGAAGGTGGCANGCAGCCCCGGCTGGGTACGCACCCGCTGGGCACTGCTGCTCT  
 TCTGGCTCGGCTGGCTCGGCATGCTTGTGGTGGCCGTGTATAATCGTGCAGCGCCCCG  
 CGTGTCCGAGACTACCGGCANAAGTGGTGCACACGGGCGCCCTCTACGCATNGGCGACC  
 TCAAGCCTTCAAGCCACGCGGGCANCCTGCGGTCTGAAAGGGCGTCTCGATACCTGAC  
 TTCTGAAGTGAAGCCCTGGGCTGGGTCCATCCAGAACAGNGGATGAGCGCTCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002394 unedited  
 AGTAAAGCACTGGGNAGGGTCACAGGGNTGCCACCCGGGCTCTGTTTCAGGAAACAGCTA  
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGGGAAGACTTCAC  
 CATGCAGGGGTGACTTTTATTTGAAGGCAGAAAACACCCTATTTGGGGTTCACTCATAA  
 TCTGCAACAGTTTGTGTTGTTTTTAAAAAAGAGAAAATCAGAAGCCAAAGGCCTG  
 GGAAGGAAAGGAGAAGGGTAGTGGTCCATGTCAGGCTGAAGTCAGGCCCGTAGGGGAA  
 GCGGAACAGCAGCCCTTCGTGAGGCTCCAGTTTCAGGCGTTCCAGCTCAAGAGGGGAGCC  
 CTCCTACGGCCTGGCTGGGTGCTGAGCAAGAGGTGAGCCTTGGCTGGCAGGCTGGCGCT  
 GGCAGGCAGGTGCGATGCCTGCAATCCATCCGATAGGCCACATCCCCAAAGTTAAGCAC  
 TACCAAAAACGCTCATTCTGGTCCCAGTGGCGGATATAGGAGAAGAGTCCAGGCCCAGC  
 GGAGAACGCGTGAATTTCCCATGCATTAGGGAGCGCTCCTTACTCCGCTGGGCACTCAG  
 CCCCCGAACAAAGAAAGGAGGGAGCCAGGGTCTTTTCTCCTGGACCCTCACAGTATGTT  
 GGGACTTACAACCCCTGGGATGTCAGGGAACCTGGTCTCTCCCCACTTTTTTTGGAGCC  
 TCTAAGCCGGTCCCGAAAGGGAATTCGTTCAAGCCATTCTTCTACCCCTGAGCTTAA  
 AAAAGGGGGCCCCGGCGAGGTAACAAAATCATCGGCGGTAGTTTCG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002394

**Insert Size:**

2500 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\\_002394.4](#), [NP\\_002385.3](#)

**RefSeq Size:** 2315 bp

**RefSeq ORF:** 1893 bp

**Locus ID:** 6520

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

**Cytogenetics:** 11q12.3

**Domains:** alpha-amylase, Amy

**Protein Families:** Transmembrane

**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 (3) contains an alternate in-frame exon and lacks an alternate exon in the 5' coding region, compared to variant 2, resulting in a shorter protein (isoform c).