

Product datasheet for **SC301694**

CD98 (SLC3A2) (NM_001012664) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD98 (SLC3A2) (NM_001012664) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD98
Synonyms:	4F2; 4F2HC; 4T2HC; CD98; CD98HC; MDU1; NACAE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC301694 representing NM_001012664.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTCGATCCGCGCCAGTTGCCTGGCTCACAT
TCGGAGGCTGGTGTCCAGGGTCTCAGCGCGGGGACGACTCAGGCACCATGAGCCAGGACACCGAGGTG
GATATGAAGGAGGTGGAGCTGAATGAGTTAGAGCCCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCG
GCCATGTCCCTGGCGGGAGCCGAGAAGAATGGTCTGGTGAAGATCAAGGTGGCGGAAGACGAGGCGGAG
GCGGCAGCCGCGGCTAAGTTCACGGGCTGTCCAAGGAGGAGCTGCTGAAGGTGGCAGGCAGCCCGGC
TGGGTACGCACCCGCTGGGCACTGCTGCTCTTCTGGCTCGGCTGGCTCGGCATGCTTGTGTGCC
GTGGTCATAATCGTGGCAGCGCCGCTTGTGCGGAGCTACCGGCGCAGAAGTGGTGGCACACGGGCGCC
CTCTACCGCATCGCGACCTTCAGGCCTCCAGGGCCACGGCGCGGGCAACCTGGCGGTCTGAAGGGG
CGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTGCTGGTCCAATTCACAAGAACCAGAAG
GATGATGTCGCTCAGACTGACTTGTGTCAGATCGACCCCAATTTGGCTCCAAGGAAGATTTTGACAGT
CTCTTGAATCGGCTAAAAAAGAGCATCCGTGTCACTTCTGGACCTTACTCCCAACTACCGGGGTGAG
AACTCGTGGTTCTCCACTCAGGTTGACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTTGGCTG
CAAGCTGGCGTGGATGGGTTCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTGGCT
GAGTGGCAAAATATACCAAGGGCTTCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGAC
CTTCAGCAGATCCTGAGCCTACTCGAATCCAACAAGACTTGCTGTTGACTAGCTCATACCTGTCTGAT
TCTGGTTCTACTGGGGAGCATACAAAATCCCTAGTCACACAGTATTTGAATGCCACTGGCAATCGCTGG
TGCAGCTGGAGTTTGTCTCAGGCAAGGCTCCTGACTTCTTCTTCCGGGCTCAACTCTCCGACTCTAC
CAGCTGATGCTCTTCACCCTGCCAGGGACCCCTGTTTTTCAGCTACGGGGATGAGATTGGCTGGATGCA
GCTGCCCTTCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGGGATGAGTCCAGCTTCCCTGACATC
CCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCTGGCTCCCTCCTTCTCTTG
TTCCGGCGGCTGAGTGACCAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTCCACGCTTCTCC
GCTGGGCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTGCTTAAC
TTTGGGGATGTGGGCTCTCGGCTGGACTGCAGGCCTCCGACCTGCCTGCCAGCGCCAGCCTGCCAGCC
AAGGCTGACCTCTGCTCAGCACCCAGCCAGGCGTGAGGAGGGCTCCCCTTTGAGCTGGAACCGCTG
AACTGGAGCCTCAGGAAGGGCTGCTGCTCCGCTTCCCCTACGCGGCTTGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
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Restriction Sites: Sgfl-RsrII

ACCN: NM_001012664

Insert Size: 1707 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: [NM_001012664.2](#)

RefSeq Size: 2161 bp

RefSeq ORF: 1707 bp

Locus ID: 6520

UniProt ID: [P08195](#)

Cytogenetics: 11q12.3

Protein Families: Transmembrane

MW: 61.8 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 (5) lacks two alternate in-frame exons, compared to variant 2, resulting in a shorter protein (isoform e).