

## Product datasheet for **SC108798**

### CD10 (MME) (NM\_007289) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD10 (MME) (NM_007289) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD10
Synonyms:	CALLA; CD10; CMT2T; NEP; SCA43; SFE
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_007289, the custom clone sequence may differ by one or more nucleotides

```
ATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAACAGCGAT
GGACTCCACTGGAGATCAGCCTCTCGGTCCTTGCTGCTCCTCACCATCATAGCTGTGACAATGATCGC
ACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATC
CAAACATGGATGCCACCACTGAGCCTTGTACAGACTTTTTCAAATATGCTTGGGAGGCTGGTTGAAAC
GTAATGTCATTCCCGAGACCAGCTCCCGTTACGGCAACTTTGACATTTTAAAGAGATGAACTAGAAGTCGT
TTTGAAAGATGTCCTTCAAGAACCACAACTGAAGATATAGTAGCAGTGCAGAAAGCAAAAGCATTGTAC
AGGTCTTGTATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAACCCTACTCAAAGTTACCAGACA
TATATGGTGGCCAGTAGCAACAGAAAAGTGGGAGCAAAAATATGGTGCCTTCTGGACAGCTGAAAAAGC
TATTGCACAACCTGAATTTAAATATGGGAAAAAGTCCTATTAATTTGTTTGGTGGCACTGATGATAAG
AATTCTGTGAATCATGTAATTCATATTGACCAACCTCGACTTGGCCTCCCTTCTAGAGATTACTATGAAT
GCACTGGAATCTATAAGAGGCTTGTACAGCATATGTGGATTTTATGATTTCTGTGGCCAGATTGATTCG
TCAGGAAGAAAGATTGCCATCGATGAAAACCACTGCTTTGGAATGAATAAAGTTATGGAATTGGAA
AAAGAAATGGCAATGCTACGGCTAAACCTGAAGATCGAATGATCCAATGCTTCTGTATAACAAGATGA
CATTGGCCAGATCCAAAATAACTTTTCTACTAGAGATCAATGGGAAGCCATTTCAGCTGGTTGAATTTAC
AAATGAAATCATGTCAACTGTGAATATTAGTATTACAAATGAGGAAGATGTGGTTGTTTATGCTCCAGAA
TATTTAACCAAATTAAGCCATTCTTACCAAATATTCTGCCAGAGATCTTCAAATTTAATGCTCCTGGA
GATTCATAATGGATCTTGTAAAGCAGCCTCAGCCGAACCTACAAGGAGTCCAGAAATGCTTCCGCAAGGC
CCTTTATGGTACAACCTCAGAAACAGCAACTTGGAGACGTTGTGCAAACTATGTCAATGGGAATATGGAA
AATGCTGTGGGGAGGCTTTATGTGGAAGCAGATTTGCTGGAGAGAGTAAACATGTGGTCGAGGATTTGA
TTGCACAGATCCGAGAAGTTTTTATTCAGACTTTAGATGACCTCACTGGATGGATGCCGAGACAAAAAA
GAGAGCTGAAGAAAAGGCCTTAGCAATTAAGAAAGGATCGGCTATCCTGATGACATTGTTTCAAATGAT
AACAACTGAATAATGAGTACCTCGAGTTGAACTACAAAGAAGATGAATACTTCGAGAACATAATTCAAA
ATTTGAAATTCAGCCAAAGTAAACAACCTGAAGAAGCTCCGAGAAAAGGTGGACAAAGATGAGTGGATAAG
TGGAGCAGCTGTAGTCAATGCATTTTACTCTTCAGGAAGAAATCAGATAGTCTTCCAGCCGGCATTCTG
CAGCCCCCTTTTGTAGTCCCAGCAGTCCAACCTATTGAACTATGGGGGCATCGGCATGGTCATAGGAC
ACGAAATCACCCATGGCTTCGATGACAATGGCAGAACTTAAACAAGATGGAGACCTCGTTGACTGGT
GACTCAACAGTCTGCAAGTAACTTTAAGGAGCAATCCCAGTGCATGGTGTATCAGTATGGAACTTTTCC
TGGGACCTGGCAGGTGGACAGCACCTTAATGGAATTAATACACTGGGAGAAAACATTGCTGATAATGGAG
GTCTTGGTCAAGCATACAGAGCCTATCAGAATTATATAAAAAAGATGGCGAAGAAAAATTACTTCTTGG
ACTTGACCTAAATCACAACAACCTATTTTTCTTGAACCTTGCACAGGTGTGGTGTGGAACCTATAGGCCA
GAGTATGCGGTTAACTCCATTAACACAGATGTGCACAGTCCAGGCAATTCAGGATTATTTGGGACTTTGC
AGAACTCTGCAGAGTTTTCAGAAGCCTTCACTGCCGCAAGAATTCATACATGAATCCAGAAAAGAAGTG
CCGGGTTTGGTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007289 unedited  
 NTGTCANATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGTGGAGGAGG  
 GCTCTGGAAGTACAGTACAGTGGCTCTTCAGGTTCAATTCATAGTTCCCTGCGGCCTC  
 TGCCTTGGGGAGTTATGTTTTGTACCGAGATCCGCGCTACCAGATTGCACCGGGGCTGA  
 TTTGGGGGCTGGGAATTTGCCATTCTGCTGTACAGACTGATTTTTTTTTCTTCTTTTT  
 AAAAAAGCAAGATTTTAGGTGATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCA  
 ACACTCCAAAGCCAAAGAAGAAACAGCGATGGACTCCACTGGAGATCAGCCTCTCGGTCC  
 TTGTCCTGCTCCTCACCATCATAGCTGTGACAATGATCGCACTCTATGCAACCTACGATG  
 ATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATCCAAAACATGG  
 ATGCCACCACTGAGCCTTGTACAGACTTTTTCAAATATGCTTGCGGAGGCTGGTTGAAAC  
 GTAATGTCATTCCCGAGACCAGCTCCCGTTACGGCAACTTTGACATTTTAAGAGATGAAC  
 TAGAAGTCGTTTTGAAAGATGTCCTTCAAGAACCACAAAACCTGAAGATATAGTAGCAGTGC  
 AGAAAGCAAAAGCATTGTACAGGCTTGTATAAATGAATCTGCTATTGATAGCAGAGGTG  
 GAGAACCTCTACTCAAAGTACCAGACATATATGGGGTGGCCAGTAGCAACAGAAAAC  
 TGGNGAGCAAAAATATGGTGNCTTCTGGACAGCTGAAAAAGCTTTTGCACAACCTGAAATT  
 CTAATATGGGAAANAAAGTCCCTTATNNAATTTGNTTGTGGCACTGATGATAAGAAANCT  
 GTGAATCATGGTATTCATATTGACCAACCTCGACTTGGCCTCCCTTCTAGAGATACTAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007289 unedited  
 CCGCGGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTTATTA AAAACGTTTGT  
 TATTTTGTATTTTGTAGACTGAAAAGTATAAAAATTTCTGATTAGGAACTTTGAGAAT  
 AGAGTCTTTCTTCTTCCAAAATAACAAATGTCTTTTAGTTTGTAGAGCTCCAGCTGTGGC  
 AACAAAGATGATAAATGCTTTTGTAGAAAATTACCAAGTTTTGCCCACTTAAATGGTTA  
 ACAGTAACAGTAGTACAGACCCAAACTTGATAAACTTTGGCACTTGCTATCTGGACTAA  
 ACTTTTGTCTCCCTCGACCCACACACTTAAACGGGAGTCCCAGTCTATCCCCCCCACCG  
 ATTTATACCTGGTAGACCCACCTGGCAAGGCACCTTGGCCCATTTCTACCTCTCTTGTCT  
 GACACCCCTTCTTACCCTACCCCTCTCCTTAGCCGACAGAACCCACGTCCCCGGAC  
 CCCCCCCCCCTCCTCCCCCCCCCTGCTCTCAACGTTTTCTCTCTCCCCCCCACCTCC  
 CCCCTTATGTCCCCTTCCCCCCCCCCCCCCCCCTCACCCCTCCCCCTCTCTTTTCCC  
 TCCCCCTTTTTTCTCCCCCTTGTCTCCCCCTTTCTCCCCCATTTTTTCCCCCT  
 TCCCTATTCCTTCTCTTTTCCCCCTTCTCACCCCTTACCCTCGCCCCCTCC  
 TCCCCCTATCCTCGCCCTTCTCCACCCGCTCCCCCATATTTCCCCCACCCGT  
 CTTTCTCCCCCAATTACTCTCCCCGTCCCTCCTCTCCACCTTCCAATCTTCTCC  
 CCCCCCCCCGCCCCCTCTCTCTCCCTCCCTTTTCTTCTCCACCCGCCCCCTACCCCT  
 CCCCCCTCCTCTCTTTTCCCCCTCCCTCCTTCCCCGTCCCCCCCCCCCC  
 CCCTTCTCTCTTCCCCCTATCATCCTCCATTAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007289

**Insert Size:**

5850 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\\_007289.1](#), [NP\\_009220.1](#)

**RefSeq Size:** 5725 bp

**RefSeq ORF:** 2253 bp

**Locus ID:** 4311

**UniProt ID:** [P08473](#)

**Cytogenetics:** 3q25.2

**Domains:** Peptidase\_M13

**Protein Families:** Druggable Genome, Protease, Transmembrane

**Protein Pathways:** Alzheimer's disease, Hematopoietic cell lineage, Renin-angiotensin system

**Gene Summary:** The protein encoded by this gene is a type II transmembrane glycoprotein and a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). The encoded protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. [provided by RefSeq, Aug 2017]  
Transcript Variant: This variant (2b) is the longest transcript and includes alternate exon 2b. Variants 1, 1bis, 2a, 2b, 3, and 4 all encode the same isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.