

## Product datasheet for **SC115606**

### CD10 (MME) (NM\_007287) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD10 (MME) (NM_007287) 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)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_007287, the custom clone sequence may differ by one or more nucleotides

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ATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAACAGCGAT
GGACTCCACTGGAGATCAGCCTCTCGGTCCTTGCTCCTCCTCACCATCATAGCTGTGACAATGATCGC
ACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATC
CAAACATGGATGCCACCACTGAGCCTTGACAGACTTTTTCAAATATGCTTGCGGAGGCTGGTTGAAAC
GTAATGTCATTCCCGAGACCAGCTCCCGTTACGGCAACTTTGACATTTTAAAGAGATGAACTAGAAGTCGT
TTTGAAAGATGTCCTTCAAGAACCACAACTGAAGATATAGTAGCAGTGCAGAAAGCAAAAGCATTGTAC
AGGTCTTGTATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAACCCTACTCAAAGTTACCAGACA
TATATGGTGGCCAGTAGCAACAGAAAAGTGGGAGCAAAAATATGGTGCTTCTTGGACAGCTGAAAAAGC
TATTGCACAACCTGAATTTAAATATGGGAAAAAGTCCTTATTAATTTGTTTGGTGGCACTGATGATAAG
AATTCTGTGAATCATGTAATTCATATTGACCAACCTCGACTTGGCCTCCCTTCTAGAGATTACTATGAAT
GCACTGGAATCTATAAGAGGCTTGTACAGCATATGTGGATTTTATGATTTCTGTGGCCAGATTGATTCG
TCAGGAAGAAAGATTGCCATCGATGAAAACCAGCTTGCCTTGGAAATGAATAAAGTTATGGAATTGGAA
AAAGAAATGGCAATGCTACGGCTAAACCTGAAGATCGAAATGATCCAATGCTTCTGTATAACAAGATGA
CATTGGCCAGATCCAAAATAACTTTTCACTAGAGATCAATGGGAAGCCATTTCAGCTGGTTGAATTTAC
AAATGAAATCATGTCAACTGTGAATATTAGTATTACAAATGAGGAAGATGTGGTTGTTTATGCTCCAGAA
TATTTAACCAAATTAAGCCATTCTTACCAAATATTCTGCCAGAGATCTTCAAATTTAATGTCCTGGA
GATTCATAATGGATCTTGTAAAGCAGCCTCAGCCGAACCTACAAGGAGTCCAGAAATGCTTCCGCAAGGC
CCTTTATGGTACAACCTCAGAAACAGCAACTTGGAGACGTTGTGCAAACTATGTCAATGGGAATATGGAA
AATGCTGTGGGGAGGCTTTATGTGGAAGCAGATTTGCTGGAGAGAGTAAACATGTGGTCGAGGATTTGA
TTGCACAGATCCGAGAAGTTTTTATTCAGACTTTAGATGACCTCACTGGATGGATGCCGAGACAAAAAA
GAGAGCTGAAGAAAAGGCCTTAGCAATTAAGAAAGGATCGGCTATCCTGATGACATTGTTTCAAATGAT
AACAACTGAATAATGAGTACCTCGAGTTGAACTACAAAGAAGATGAATACTTCGAGAACATAATTCAAA
ATTTGAAATTCAGCCAAAGTAAACAACCTGAAGAAGCTCCGAGAAAAGGTGGACAAAGATGAGTGGATAAG
TGGAGCAGCTGTAGTCAATGCATTTTACTCTTCAGGAAGAAATCAGATAGTCTTCCAGCCGGCATTCTG
CAGCCCCCTTTTGTAGTCCCAGCAGTCCAACCTATTGAACTATGGGGGCATCGGCATGGTCATAGGAC
ACGAAATCACCCATGGCTTCGATGACAATGGCAGAACTTAAACAAGATGGAGACCTCGTTGACTGGT
GACTCAACAGTCTGCAAGTAACTTTAAGGAGCAATCCCAGTGCATGGTGTATCAGTATGGAACTTTTCC
TGGGACCTGGCAGGTGGACAGCACCTTAATGGAATTAATACACTGGGAGAAAACATTGCTGATAATGGAG
GTCTTGGTCAAGCATACAGACCTATCAGAATTATATTAAGAAAGATGGCGAAGAAAAATTACTTCTTGG
ACTTGACCTAAATCACAACAACCTATTTTTCTTGAACCTTGCACAGGTGTGGTGTGGAACCTATAGGCCA
GAGTATGCGGTTAACTCCATTAACACAGATGTGCACAGTCCAGGCAATTCAGGATTATTTGGGACTTTGC
AGAACTCTGCAGAGTTTTCAGAAGCCTTCACTGCCGCAAGAATTCATACATGAATCCAGAAAAGAAGTG
CCGGGTTTGGTGA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007287 unedited  
 NNGGTTTCGTTTTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGGGCTCTG  
 GAAGTCACGTCAGGTTGGCTCTTCAGGTTCAATTCATAGTTCCTGCGGCTCTGCCTT  
 GGGGAGTTATGTTTTGTTACCGAGATCCGCGCTACCAGATTGCACCGGGCTGATTTGGG  
 GGCTGGGAATTTGCCATTCTGCTGTACAGACACTGATTTTTTTTTCTTCTTTTAAAAAG  
 CAAGATTTTAGGTGATGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTC  
 CAAAGCCAAAGAAGAAACAGCGATGGACTCCACTGGAGATCAGCCTCTCGTCTCTTGCC  
 TGCTCCTCACCATCATAGCTGTGACAATGATCGCACTCTATGCAACCTACGATGATGGTA  
 TTTGCAAGTCATCAGACTGCATAAAAATCAGCTGCTCGACTGATCCAAAACATGGATGCCA  
 CCACTGAGCCTTGTACAGACTTTTTCAAATATGCTTGGGAGGCTGGTTGAAACGTAATG  
 TCATTCAGGACAGCTCCCGTTACGGCAACTTTGACATTTAAGAGATGAACTAGAAG  
 TCGTTTTGAAAGATGTCCTTCAAGAACCCAAAACCTGAAGATATAGTAGCAGTGCAGAAAG  
 CAAAAGCATTGTACAGGCTTGTATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAAC  
 CTCTACTCAAACCTGTTACCAGACATATATGGGTGGCCAGTAGCAACAGAAAACCTGGGAGC  
 ANNAATATGGTGTCTTGGACAGCTGAANAAGCTATTGCACAACCTGAATTNCTAATATG  
 GGAAAAAGTCCTTATAATTTGTTNGTTGGCACTGATGATAGAAATCTGTGAAATCATGT  
 ATTCATATTGACCAACCTCG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007287 unedited  
 TTTTTTTTTGGANCGCGGANCCGCATCTCAAGAGCCAGTTTTTTTTTTTTTTTTGTTT  
 ATATAAAAACGTTTGTATTTTATTTTGTATTTTGTAGACTGGAACTGATAAAAAATTTCT  
 GATTAGGAAACTTTCAGAAAGAGCCTTTTTTCTTCCAAAATAACAAATGTCTTTTAGT  
 TTGAGAGCTGTATGTGTGCAATAAGGATGATTTTGTCTTTGATAAAATTAGTTGGCTT  
 CGCCCTCTTTTTCCGGCCCTTTTTCATCTGTGCACCCTGGTTTTGTGTCGTCGTTTTT  
 CCCGAGCTGCTGTCTGGCGCTTCAATTTTTCTTTCTTTCCGATAATATCCCCCTTCT  
 TCCCTTTTCCCTCTTTTTTATTCTCCCTGTGTTCCGCATCGCAGAAGCCGCTCGT  
 TTCCTTTTTCTTCTGGGTTTAGCTGCTCCTCCTCCGTTTCTGCTTTGTTGCGCTCCC  
 CCCCCACCCCTTATTCGACATCGGGTTGTTGAGCACAGTGTATGTTGCTTTTT  
 TTGCATCCGAATATCCAGTATTTTTTGTAGCACATTTTTTTTTATCCATTTTTATT  
 CCTTTATGCCGCTCAACGTTCTTATATTTTTCTACGAGCATGCGTCTGTATCTTTGAAT  
 TTTACAGGTGTGTGTTATTTTTCCCTTTTATTGGCCAGGTCGTAGTGAGGCGAGTAGCG  
 TTTTTCCGACCGTTCGTCGACTTTTTTTTTCCGCTTCTATTAGGCCTGCCTATTGCT  
 GAGAGACGGATATACCTTTACCTTACACGCCCCTTCTGTTTTATCCTCCGCCCTCGC  
 TTTTTTTGTTGTTTATTCGCCACCCCTGTGCTACCGATCTTTATTTTTGACTCACCC  
 CCCATATTTCTTTCTTTCGCCCGCGCCTTTATTTGCTAGTTTTGAAACACCGGACC  
 CCTTTGTTTTCTCACGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007287

**Insert Size:**

4700 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007287.1</a> , <a href="#">NP_009218.1</a>
<b>RefSeq Size:</b>	5665 bp
<b>RefSeq ORF:</b>	2253 bp
<b>Locus ID:</b>	4311
<b>UniProt ID:</b>	<a href="#">P08473</a>
<b>Cytogenetics:</b>	3q25.2
<b>Domains:</b>	Peptidase_M13
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease, Hematopoietic cell lineage, Renin-angiotensin system
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1bis) contains an alternate 5' UTR exon compared to variant 2b. Variants 1, 1bis, 2a, 2b, 3, and 4 all encode the same isoform (a).</p>