

Product datasheet for **SC126502**

CD10 (MME) (NM_007288) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD10 (MME) (NM_007288) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD10
Synonyms:	CALLA; CD10; CMT2T; NEP; SCA43; SFE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_007288, the custom clone sequence may differ by one or more nucleotides

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ATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAACAGCGAT
GGACTCCACTGGAGATCAGCCTCTCGGTCCTTGCTCCTCCTCACCATCATAGCTGTGACAATGATCGC
ACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATC
CAAACATGGATGCCACCACTGAGCCTTGACAGACTTTTTCAAATATGCTTGGGAGGCTGGTTGAAAC
GTAATGTCATTCCCGAGACCAGCTCCCGTTACGGCAACTTTGACATTTTAAAGAGATGAACTAGAAGTCGT
TTTGAAAGATGTCCTTCAAGAACCACAAAACCTGAAGATATAGTAGCAGTGCAGAAAGCAAAAGCATTGTAC
AGGTCTTGTATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAACCCTACTCAAACCTGTTACCAGACA
TATATGGTGGCCAGTAGCAACAGAAAACCTGGGAGCAAAAATATGGTGCTTCTTGGACAGCTGAAAAAGC
TATTGCACAACCTGAATTTAAATATGGGAAAAAGTCCTTATTAATTTGTTTGTGGCACTGATGATAAG
AATTCTGTGAATCATGTAATTCATATTGACCAACCTCGACTTGGCCTCCCTTCTAGAGATTACTATGAAT
GCACTGGAATCTATAAGAGGCTTGTACAGCATATGTGGATTTTATGATTTCTGTGGCCAGATTGATTCG
TCAGGAAGAAAGATTGCCATCGATGAAAACCAGCTTGCTTTGGAATGAATAAAGTTATGGAATTGGAA
AAAGAAATGGCAATGCTACGGCTAAACCTGAAGATCGAATGATCCAATGCTTCTGTATAACAAGATGA
CATTGGCCAGATCCAAAATAACTTTTCTACTAGAGATCAATGGGAAGCCATTTCAGCTGGTTGAATTTAC
AAATGAAATCATGTCAACTGTGAATATTAGTATTACAAATGAGGAAGATGTGGTTGTTTATGCTCCAGAA
TATTTAACCAAACCTAAGCCATTCTTACCAAATATTCTGCCAGAGATCTTCAAATTTAATGCTCCTGGA
GATTCATAATGGATCTTGTAAAGCAGCCTCAGCCGAACCTACAAGGAGTCCAGAAATGCTTCCGCAAGGC
CCTTTATGGTACAACCTCAGAAACAGCAACTTGGAGACGTTGTGCAAACTATGTCAATGGGAATATGGAA
AATGCTGTGGGGAGGCTTTATGTGGAAGCAGCATTTGCTGGAGAGAGTAAACATGTGGTCGAGGATTTGA
TTGCACAGATCCGAGAAGTTTTTATTCAGACTTTAGATGACCTCACTGGATGGATGCCGAGACAAAAAA
GAGAGCTGAAGAAAAGGCCTTAGCAATTAAGAAAGGATCGGCTATCCTGATGACATTGTTTCAAATGAT
AACAAACTGAATAATGAGTACCTCGAGTTGAACTACAAAGAAGATGAATACTTCGAGAACATAATTCAAA
ATTTGAAATTCAGCCAAAGTAAACAACCTGAAGAAGCTCCGAGAAAAGGTGGACAAAGATGAGTGGATAAG
TGGAGCAGCTGTAGTCAATGCATTTTACTCTTCAGGAAGAAATCAGATAGTCTTCCAGCCGGCATTCTG
CAGCCCCCTTCTTGTAGTCCCAGCAGTCCAACCTATTGAACTATGGGGGCATCGGCATGGTCATAGGAC
ACGAAATCACCCATGGCTTCGATGACAATGGCAGAACTTTAACAAAGATGGAGACCTCGTTGACTGGT
GACTCAACAGTCTGCAAGTAACTTTAAGGAGCAATCCCAGTGCATGGTGTATCAGTATGGAACTTTTCC
TGGGACCTGGCAGGTGGACAGCACCTTAATGGAATTAATACACTGGGAGAAAACATTGCTGATAATGGAG
GTCTTGGTCAAGCATACAGAGCCTATCAGAATTATATAAAAAAGATGGCGAAGAAAAATTACTTCTTGG
ACTTGACCTAAATCACAACAACCTATTTTTCTTGAACCTTGCACAGGTGTGGTGTGGAACCTATAGGCCA
GAGTATGCGGTTAACTCCATTAACACAGATGTGCACAGTCCAGGCAATTTAGGATTATTGGGACTTTGC
AGAACTCTGCAGAGTTTTCAGAAGCCTTCACTGCCGCAAGAATTCATACATGAATCCAGAAAAGAAGTG
CCGGGTTTGGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007288 unedited CGTGGAGGAGCGTGCCCTGGGAAGGAGCCGCTACTGGGACCTGAAGAATTTTAGGTGAT GGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAA ACAGCGATGGACTCCACTGGAGATCAGCCTCTCGGTCCTTGTCTGCTCCTCACCATCAT AGCTGTGACAATGATCGCACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGA CTGCATAAAAATCAGCTGCTCGACTGATCCAAAACATGGATGCCACCACTGAGCCTTGTAC AGACTTTTTCAAATATGCTTGGCGAGGCTGGTTGAAACGTAATGTCATTCCCGAGACCAG CTCCCGTTACGGCAACTTTGACATTNTAAGAGATGAACTAGAAGTCGTTTTGAAAGATGT CCTTCAAGAACCCTGAAATATAGTAGCAGTGCAGAAAAGCAAAAGCATTGTACAG GTCTTGATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAACCCTACTCAAAGTGT ACCAGACATATATGGGTGGGCCAGTAGCAACAGAAAACCTGGGAGCAAAAATATGGGTGCT TCTTGGACAGCTGAAAAGCTATTGCACAACCTGATTTCTAAATATGGGAAAAAGTCCC TTATAATTTTNGTTGTTGGCACTGATGATAGGAAATCTGGGAATCATGGTATTTCATTTG ACCAACCTCGACTGGGCTCCTTCTAAAGATTACTTGAATGCCCTGAATCTATAAAAAGG CTGGCCACCATAGGGGTTTTTGAATTCCTGGGCACATAGATTCTCCGAAAAAAATGCC TCCTGAAAACCCTTGCTTTGAAAGAATAAGTTGGAATGAA
Restriction Sites:	NotI-NotI
ACCN:	NM_007288
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:	<ol style="list-style-type: none"> 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:	<u>NM_007288.1</u> , <u>NP_009219.1</u>
RefSeq Size:	5665 bp
RefSeq ORF:	2253 bp
Locus ID:	4311
UniProt ID:	<u>P08473</u>
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 (2a) contains an alternate 5' UTR exon, compared to variant 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.