

Product datasheet for **RG223061**

CD10 (MME) (NM_007287) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD10 (MME) (NM_007287) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD10
Synonyms:	CALLA; CD10; CMT2T; NEP; SCA43; SFE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG223061 representing NM_007287
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAAACAGCGAT
GGACTCCACTGGAGATCAGCCTCTCGGTCTTGCTGCTCCTCACCATCATAGCTGTGACAATGATCGC
ACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATC
CAAAACATGGATGCCACCACTGAGCCTTGACAGACTTTTTCAAATATGCTTGCGGAGGCTGGTTGAAAC
GTAATGTCATTCCCGAGACCAGCTCCCCTTACGGCAACTTTGACATTTAAAGAGATGAACTAGAAGTCGT
TTTGAAAGATGTCCTTCAAGAACCACAACTGAAGATATAGTAGCAGTGCAGAAAGCAAAAGCATTGTAC
AGGTCTTGATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAACCCTACTCAAAGTTACCAGACA
TATATGGTGGCCAGTAGCAACAGAAAAGTGGGAGCAAAAATATGGTGTCTTTGGACAGCTGAAAAAGC
TATTGCACAAGTGAATCTAAATATGGGAAAAAGTCCTTATTAATTTGTTTGGTGGCAGTATGATAAG
AATTCTGTGAATCATGTAATTCATATTGACCAACCTCGACTTGGCCTCCCTTCTAGAGATTACTATGAAT
GCACTGGAATCTATAAGAGGCTTGTACAGCATATGTGGATTTTATGATTCTGTGGCCAGATTGATTCCG
TCAGGAAGAAAGATTGCCATCGATGAAAACCACTTGCCTTGGAAATGAATAAAGTTATGGAATTGGAA
AAAGAAATTGCCAATGCTACGGCTAAACCTGAAGATCGAAATGATCCAATGCTTCTGTATAACAAGATGA
CATTGGCCAGATCCAAAATAACTTTTCACTAGAGATCAATGGGAAGCCATTGAGCTGGTTGAATTTAC
AAATGAAATCATGTCAACTGTGAATATTAGTATTACAAATGAGGAAGATGTGGTTGTTTATGCTCCAGAA
TATTTAACCAAATTAAGCCATTCTTACCAAATATTCTGCCAGAGATCTTCAAATTTAATGCTCCTGGA
GATTCATAATGGATCTTGTAAAGCAGCCTCAGCCGAACCTACAAGGAGTCCAGAAATGCTTCCGCAAGGC
CCTTTATGGTACAACCTCAGAAACAGCAACTTGGAGACGTTGTGCAAACTATGTCAATGGGAATATGGAA
AATGCTGTGGGAGGCTTTATGTGGAAGCAGCATTGCTGGAGAGAGTAAACATGTGGTCCGAGGATTTGA
TTGCACAGATCCGAGAAGTTTTTATTGACTTTAGATGACCTCACTTGGATGGATGCCGAGACAAAAAA
GAGAGCTGAAGAAAAGGCCTTAGCAATTAAGAAAGGATCGGCTATCCTGATGACATTGTTTCAAATGAT
AACAACTGAATAATGAGTACCTCGAGTTGAACTACAAAGAAGATGAATACTTCGAGAACATAATTCAA
ATTTGAAATTCAGCCAAAGTAAACAAGTGAAGAAGCTCCGAGAAAAGGTGGACAAAGATGAGTGGATAAG
TGGAGCAGCTGTAGTCAATGCATTTTACTCTTCAGGAAGAAATCAGATAGTCTTCCAGCCGGCATTCTG
CAGCCCCCTTTTATGTCAGCAGTCCAACCTATTGAACTATGGGGCATCGGCATGGTTCATAGGAC
ACGAAATCACCCATGGCTTCGATGACAATGGCAGAACTTAAACAAAGATGGAGACCTCGTTGACTGGT
GACTCAACAGTCTGCAAGTAACTTAAAGGAGCAATCCCAGTGCATGGTGTATCAGTATGGAACTTTTCC
TGGGACCTGGCAGGTGGACAGCACCTTAATGGAATTAATACACTGGGAGAAAACATTGCTGATAATGGAG
GTCTTGGTCAAGCATACAGAGCCTATCAGAATTATATAAAAAGAATGGCGAAGAAAAATTACTTCTG
ACTTGACCTAAATCACAAACAATTTTTTCTTGAACCTTGCACAGGTGTGGTGTGGAACCTATAGGCCA
GAGTATGCGGTAACTCCATTAACAGATGTGCACAGTCCAGGCAATTTGAGGATTATTTGGACTTTGC
AGAAGTCTGCAGATTTTCAGAAGCCTTCACTGCCGCAAGAATTCATACATGAATCCAGAAAAGAAGTG
CCGGGTTTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223061 representing NM_007287
 Red=Cloning site Green=Tags(s)

MGKSESQMDITDINTPKPKKKQRWTPLEISLSVLVLLLTIIAVTMIALYATYDDGICKSSDCIKSAARLI
 QNM DATTEPCTDFFKYACGGWLKRNVIPETSSRYGNFDILRDELEVVLKDVLPQPKTEDIVAVQKAKALY
 RSCINESAIDSRGGEPLLKLLPDIYGWPVATENWEQKYGASWTAEKAI AQLNSKYGKKVLINL FVGTDDK
 NSVNHVIHIDQPRLLPSRDYECTGIYKEACTAYVDFMISVARLIRQEERLPIDENQLALEMNKVMELE
 KEIANATAKPEDRNDPMLLYNKMTLAQIQNNFSL EINGKPF SWLNFTNEIMSTVNISITNEEDVVVYAPE
 YLTKLKPILTKYSARDLQNLMSWRFIMDLVSSLRRTYKESRNAFRKALYGTTSSETATWRRANCANYVNGME
 NAVGRLYVEAAFAGESKHVVEDLIAQIREVFIQTLDDL TWMDAETKKRAEEKALAIKERIGYPDDIVSND
 NKLNN EYELNYKEDEYFENIIQNLKFSQSKQLK LREKVDKDEWISGAAVVNAFYSSGRNQIVFPAGIL
 QPPFFSAQQSNLNYGGIGMVGHEITHGFDDNGRNFNKDGDLDVWWTQQSASFKEQSQCMMVYQYGNFS
 WDLAGGQHLNGINTLGENIADNGGLGQAYRAYQNYIKKNGEEKLLPGLDLNHKQLFFLNFAQVWCCTYRP
 EYAVNSIKTDVHSPGNFRIIGTLQNSAEFSEAFHCRKNSYMNPEKKCRVW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007287

ORF Size: 2250 bp

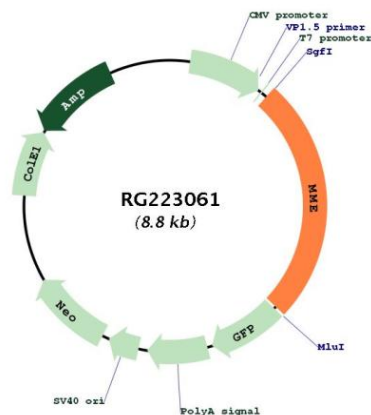
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_007287.3
RefSeq Size:	5665 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]

Product images:



Circular map for RG223061