

Product datasheet for **RC210961**

CD10 (MME) (NM_007288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD10 (MME) (NM_007288) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD10
Synonyms:	CALLA; CD10; CMT2T; NEP; SCA43; SFE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC210961 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAAACAGCGAT
GGACTCCACTGGAGATCAGCCTCTCGGTCTTGCTGCTCCTCACCATCATAGCTGTGACAATGATCGC
ACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATC
CAAACATGGATGCCACCACTGAGCCTTGACAGACTTTTTCAAATATGCTTGCGGAGGCTGGTTGAAAC
GTAATGTCATTCCCGAGACCAGCTCCCCTTACGGCAACTTTGACATTTAAGAGATGAACTAGAAGTCGT
TTTGAAAGATGTCCTTCAAGAACCACAACTGAAGATATAGTAGCAGTGCAGAAAGCAAAGCATTGTAC
AGGTCTTGATAAATGAATCTGCTATTGATAGCAGAGGTGGAGAACCCTACTCAAAGTTACCAGACA
TATATGGTGGCCAGTAGCAACAGAAAAGTGGGAGCAAAAATATGGTGTCTTTGGACAGCTGAAAAAGC
TATTGCACAAGTGAATCTAAATATGGGAAAAAGTCCTTATTAATTTGTTTGGCAGCTGATGATAAG
AATTCTGTGAATCATGTAATTCATATTGACCAACCTCGACTTGGCCTCCCTTCTAGAGATTACTATGAAT
GCACTGGAATCTATAAGAGGCTTGTACAGCATATGTGGATTTTATGATTCTGTGGCCAGATTGATTCCG
TCAGGAAGAAAGATTGCCATCGATGAAAACCACTTGCCTTGGAAATGAATAAAGTTATGGAATTGGAA
AAAGAAATGGCAATGCTACGGCTAAACCTGAAGATCGAAATGATCCAATGCTTCTGTATAACAAGATGA
CATTGGCCAGATCCAAAATAACTTTTCACTAGAGATCAATGGGAAGCCATTGAGCTGGTTGAATTTAC
AAATGAAATCATGTCAACTGTGAATATTAGTATTACAAATGAGGAAGATGTGGTTGTTTATGCTCCAGAA
TATTTAACCAAATTAAGCCATTCTTACCAAATATTCTGCCAGAGATCTTCAAATTTAATGTCCTGGA
GATTCATAAATGGATCTTGTAAAGCAGCCTCAGCCGAACCTACAAGGAGTCCAGAAATGCTTTCCGCAAGG
CCTTTATGGTACAACCTCAGAAACAGCAACTTGGAGACGTTGTGCAAACTATGTCAATGGGAATATGGAA
AATGCTGTGGGAGGCTTTATGTGGAAGCAGCATTGCTGGAGAGAGTAAACATGTGGTCCGAGGATTTGA
TTGCACAGATCCGAGAAGTTTTTATCAGACTTTAGATGACCTCACTTGGATGGATGCCGAGACAAAAAA
GAGAGCTGAAGAAAAGGCCTTAGCAATTAAGAAAGGATCGGCTATCCTGATGACATTGTTTCAAATGAT
AACAACTGAATAATGAGTACCTCGAGTTGAACTACAAAGAAGATGAATACTTCGAGAACATAATTCAA
ATTTGAAATTCAGCCAAAGTAAACAAGTGAAGAAGCTCCGAGAAAAGGTGGACAAAGATGAGTGGATAAG
TGGAGCAGCTGTAGTCAATGCATTTTACTTTCAGGAAGAAATCAGATAGTCTTCCAGCCGGCATTCTG
CAGCCCCCTTTTAGTGCCAGCAGTCCAACCTATTGAACTATGGGGCATCGGCATGGTCATAGGAC
ACGAAATCACCCATGGCTTCGATGACAATGGCAGAACTTTAACAAAGATGGAGACCTCGTTGACTGGT
GACTCAACAGTCTGCAAGTAACTTTAAGGAGCAATCCCAGTGCATGGTGTATCAGTATGGAACCTTTCC
TGGGACCTGGCAGGTGGACAGCACCTTAATGGAATTAATACACTGGGAGAAAACATTGCTGATAATGGAG
GTCTTGGTCAAGCATACAGAGCCTATCAGAATTATTAATAAAGAATGGCGAAGAAAAATTACTTCTG
ACTTGACCTAAATCACAAACAATTTTTTCTTGAACCTTGCACAGGTGTGGTGTGGAACCTATAGGCCA
GAGTATGCGGTAACTCCATTAACAGATGTGCACAGTCCAGGCAATTTGAGGATATTGGGACTTTGC
AGAAGTCTGCAGAGTTTTCAGAAGCCTTCACTGCCGCAAGAATTCATACATGAATCCAGAAAAGAAGT
CCGGGTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210961 protein sequence
 Red=Cloning site Green=Tags(s)

MGKSESQMDITDINTPKPKKKQRWTPLEISLSVLVLLLTIIAVTMIALYATYDDGICKSSDCIKSAARLI
 QNMDATTEPCTDFFKYACGGWLKRNVIPETSSRYGNFDILRDELEVVLKDVLPQPKTEDIVAVQKAKALY
 RSCINESAIDSRGGEPLLKLLPDIYGWVATENWEQKYGASWTAEKAIQNLNSKYGKKVLINLFGVTDDK
 NSVNHVIHIDQPRGLPSRDYECTGIYKEACTAYVDFMISVARLIRQEERLPIDENQLALEMKNVMELE
 KEIANATAKPEDRNDPMLLYNKMTLAQIQNNFSLEINGKPF SWLNFTNEIMSTVNI SITNEEDVVVYAPE
 YLTKLKPILTKYSARDLQNLMSWRFIMDLVSSLRRTYKESRNAFRKALYGTTSSETATWRRCANVYVNGME
 NAVGRLYVEAAFAGESKHVVEDLIAQIREVFIQTLDDLWMDAETKKRAEEKALAIKERIGYPDDIVSND
 NKLNNEYLELNYKEDEYFENIIQNLKFSQSKQLKKLREKVDKDEWISGAAYVNAFYSSGRNQIVFPAGIL
 QPPFFSAQQSNSLNYGGIGMVGHEITHGFDDNGRNFNKDGLVDWWTQQSASFKEQSQCVMVYQYGNFS
 WDLAGGQHLNGINTLGENIADNGGLQAYRAYQNYIKKNGEEKLLPGLDLNHKQLFFLNFAQVWCCTYRP
 EYAVNSIKTDVHSPGNFRIIGTLQNSAEFSEAFHCRKNSYMNPEKKCRVW

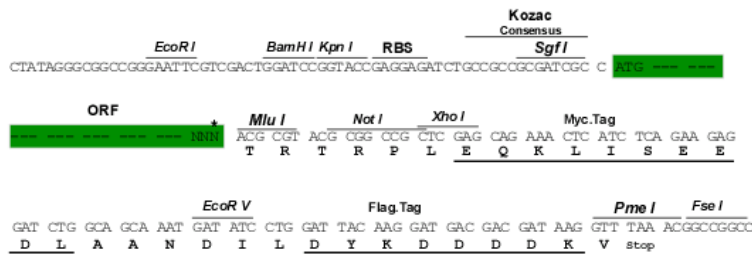
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6107_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007288

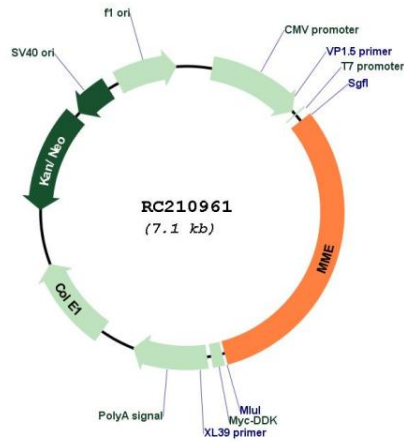
ORF Size: 2250 bp

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](#)

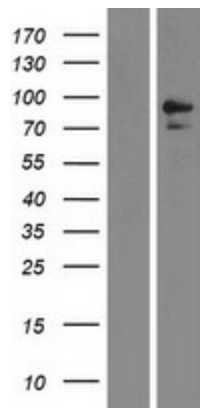
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_007288.3
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
MW:	85.5 kDa
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]

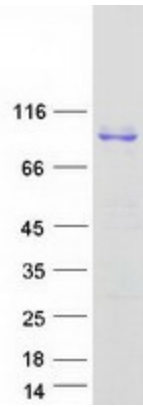
Product images:



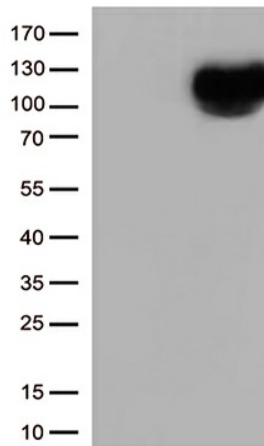
Circular map for RC210961



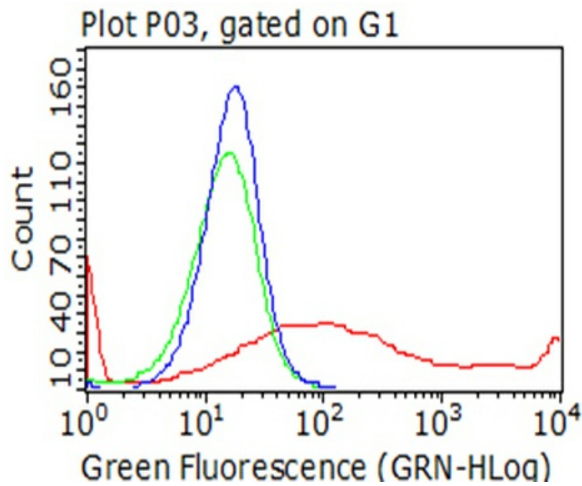
Western blot validation of overexpression lysate (Cat# [LY416066]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223116] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MME protein (Cat# [TP310961]). The protein was produced from HEK293T cells transfected with MME cDNA clone (Cat# RC210961) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MME (Cat# RC210961, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MME (Cat# [TA810732])(1:500).



Flow cytometric analysis of living 293T cells transfected with MME overexpression plasmid (RC210961, Red)/empty vector ([PS100001], Blue) using anti-MME antibody ([TA810732]). Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).