

Product datasheet for **RG223013**

CD10 (MME) (NM_000902) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD10 (MME) (NM_000902) 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:

>RG223013 representing NM_000902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAGTCAGAAAGTCAGATGGATATAACTGATATCAACACTCCAAAGCCAAAGAAGAAACAGCGAT
 GGACTCCACTGGAGATCAGCCTCTCGGTCTTGCTGCTCCTCACCATCATAGCTGTGACAATGATCGC
 ACTCTATGCAACCTACGATGATGGTATTTGCAAGTCATCAGACTGCATAAAATCAGCTGCTCGACTGATC
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 GTAATGTCATTCCCGAGACCAGCTCCCCTTACGGCAACTTTGACATTTTAAGAGATGAACTAGAAGTCGT
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 GCACTGGAATCTATAAGAGGCTTGTACAGCATATGTGGATTTTATGATTCTGTGGCCAGATTGATTCCG
 TCAGGAAGAAAGATTGCCATCGATGAAAACCACTTGCCTTGGAAATGAATAAAGTTATGGAATTGGAA
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 GAGTATGCGGTAACTCCATTAACAGATGTGCACAGTCCAGGCAATTTGAGGATTATTTGGACTTTGC
 AGAACTCTGCAGATTTTCAGAAGCCTTCACTGCCGCAAGAATTCATACATGAATCCAGAAAAGAAGTG
 CCGGGTTTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223013 representing NM_000902
 Red=Cloning site Green=Tags(s)

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MGKSESQMDITDINTPKPKKKQRWTPLEISLSVLVLLLTIIAVTMIALYATYDDGICKSSDCIKSAARLI
QNMDATTEPCTDFFKYACGGWLKRNVIPETSSRYGNFDILRDELEVVLKDVLPQPKTEDIVAVQKAKALY
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NSVNHVIHIDQPRLGLPSRDYECTGIYKEACTAYVDFMISVARLIRQEERLPIDENQLALEMNKVMELE
KEIANATAKPEDRNDPMLLYNKMTLAQIQNNFSLRINGKPF SWLNFTNEIMSTVNISITNEEDVVVYAPE
YLTKLKPILTKYSARDLQNLMSWRFIMDLVSSLRRTYKESRNAFRKALYGTTSSETATWRRANCANYVNGME
NAVGRLYVEAAFAGESKHVVEDLIAQIREVFIQTLDDL TWMDAETKKRAEEKALAIKERIGYPDDIVSND
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QPPFFSAQQSNSLNYGGIGMVGHEITHGFDDNGRNFNKDGDLDVWWTQQSASFKEQSQCVMVYQYGNFS
WDLAGGQHLNGINTLGENIADNGGLQAYRAYQNYIKKNGEEKLLPGLDLNHNKQLFFLNFAQVWCCTYRP
EYAVNSIKTDVHSPGNFRIIGTLQNSAEFSEAFHCRKNSYMNPEKKCRVW
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000902

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:

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_000902.4](#)

RefSeq Size: 5595 bp

RefSeq ORF: 2253 bp

Locus ID: 4311

UniProt ID: [P08473](#)

Cytogenetics: 3q25.2

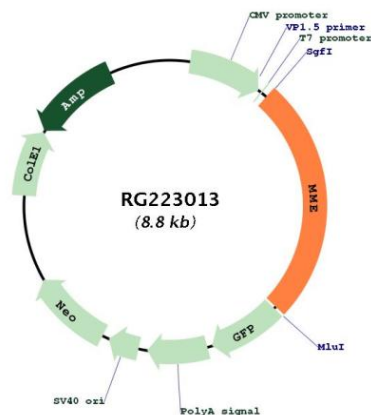
Domains: Peptidase_M13

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 RG223013