

## Product datasheet for RC235122

### CD101 (NM\_001256109) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD101 (NM_001256109) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD101
Synonyms:	EWI-101; IGSF2; V7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC235122 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGCATCTCATATGTGGCATCTTTCTTTCTCCTTCTGACTAAGCTCAGCATTGGCCAGAGAGAAG  
TAACAGTTCAGAAAGGACCCTGTTAGAGCTGAAGGTTACCCAGTCAGCATTGGCTGCAATGTAAGTGG  
CCACCAGGGACCTTCTGAGCAGCATTCCAGTGGTCTGTTACCTGCCGACAAACCCGACCCAGGAAGTC  
CAGATCATTAGCACCAAGGATGTGCCTTCTTACGCAGTATATACGCAGCGGGTGCAGGAGGAGACG  
TCTACGTGGAGAGGGTCCAGGGCAACTCAGTCTTGTGTCACATCTCAAACTCCAGATGAAGGATGCTGG  
CGAGTATGAGTGTACACACCAAACACTGATGAGAAATACTATGGAAGTTACAGTGCAAAGACTAATCTA  
ATTGTTATTCCAGATACCCTCTCTGCCACCATGAGTTCTCAGACTCTCGGTAAGGAGGAAGTGAGCCAT  
TAGCCCTCACCTGTGAGGCATCCAAAGCCACAGCCCAACATACTCACCTCTCTGTACCTGGTACCTAAC  
ACAGGATGGAGGAGGAAGCCAAGCCACTGAGATTATTTCTCTCTCAAAGATTTTATATTGGTCCCTGGG  
CCCTTGTATACAGAGCGGTTTGCAGCCAGTGACGTACAGCTCAACAACTGGGACCCACTACATTCAGGC  
TGTCATAGAGAGGCTCCAGTCTCAGATCAGGGTCTGTTCTGTGAGGCAACGGAATGGATTCAGGA  
TCCAGATGAAACTTGGATGTTTATCACCACAAAAGCAGACCGATCAAACACTCTGAGGATCCAGCCAGCA  
GTGAAAGATTTTCAAGTCAACATTACAGCTGACAGCTTGTGCTGAAGGAAACCCCTTAGAAGTGGTTT  
GCCTGGTTGTAAGCAGTGGCCGTGACCCACAGCTTCAAGGCATTTGGTTCTTCAATGGGACTGAAATTGC  
TCACATTGATGCTGGTGGAGTCTGGGCCTGAAGAATGACTACAAAGAGAGAGCAAGTCAAGGAGAGCTC  
CAGGTTTCAAAGTTAGGCCCAAGGCTTTCTCTCTCAAGATCTTCTCTGGGCCAGAGGATGAAGGCG  
CCTACAGATGTGTGGTAGCAGAGGTCATGAAAACACGCACAGGTTCTGGCAGGTGCTTCAGAGAAAAGCA  
GTCACCAGACAGCCAGTGCACCTGAGGAAGCCAGCAGCAAGAAGTGTGGTCATGTCTACCAAGAACAAG  
CAGCAAGTTGTGGGAAGGAGAGACACTCGCCTTTCTCTGTAAGGCTGGTGGAGCTGAAAGTCCCTGT  
CTGTGAGCTGGTGGCACATCCCACGGGACCAGACAGCCCGAGTTTGTGGCTGGATGGGGCAGGATGG  
CATTGTGACGCTGGGTGCCTCTATGGGTACCCAGTTACCATGGCAACACAAGGCTGGAGAAAATGGAC



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TGGGCCACCTTCCAGCTGGAGATCACCTTCACTGCCATCACAGACAGTGGCACATATGAGTGCAGAGTAT  
 CTGAGAAGTCTCGGAACCCAGGCCAGAGATCTGAGCTGGACTCAGAAGATTTCAAGTACTGTAAGTCTCT  
 GGAGTCAAGTTTACAAGTTAGTCTGATGAGCCGTGAGCCGCAAGTGTAAACCAACACCTTTGACCTG  
 TCCTGTGTCGTGAGGGCCGGTACTCTGACCTCAAGGTGCCACTCACTGTGACGTGGCAGTTCAGCCAG  
 CTAGCTCTCACATCTTCCACCAGCTTATCGAATCACCCACAATGGCACTATTGAATGGGGGAATTCCT  
 ATCCCGGTTCCAAAAGAAGACGAAAGTGTGCGAGTCTTTATTCGTTCACTCACTAGTCCATGATGCC  
 ACTGAGGAAGAGACAGGAGTGTATCAGTGTGAAGTGAAGTTTATGACAGAAAATCCCTATACAACAAC  
 GCCCCCGAGGGCTTCTGCCATCTCTACCCACTGAGGATAGCCGTCACTTTACCAGAGCAAGCTAAA  
 AGTGAATTCAGGAGTCAAGTCCAAGAGCTCTCCATCACTCCAACACTGATATAGAATGTAGCATCTTG  
 TCCCGGTCCAATGGAAACCTTCAAGTCCAGTCCATTATTTGGTATTTTCTCTGTTTCCACTAATGCCTCT  
 GGCTAAAGATCCTGGAGATGGACCAACCAATGTTATAAAAAGTGGGGATGAGTTTACACCCCCACAGAG  
 AAAACAAAATTTCACTAGAGAAGTTTCCCAAGACTTATTTCAAGTGCACATTCTGAATGTGGAAGAC  
 AGCGATCGGGCAAAATCACTGTGCTGTGGAGGAATGGCTCCTGTCTACAAATGGCACTGGCACAAGC  
 TTGGAGAAAAGAAGTCAAGTAAACAGAAATGAAACTCAAGCCCACAGGAAGTAAAGTACGTGTCTCCAA  
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 ACTTGCAACATGATGGCTTGTGGAGTATGGGGAAGAGGGGCTCAGGAGGCACCTGCACTGTTACCGTTC  
 ATCCTCTACAGACTTTGTCTGAAGCTTCACTCAGGTGGAGATGGAGGATGCAGGAATGACTGGTGTAGG  
 GTGGCAGAGTGGCAGCTCCATGGACACCAAGCAAGTGGATTAATCAAGCATCCGATGAGTACACAGCGGA  
 TGGTGCTCAGGTGCTGCCTTCCAGGCCACGCTTCTTCCAGGATCTGCTCCTCGGCCCTTTACTCTA  
 TTTCTGTTCACTGTCCCTTCTGCTCCTA  
 TTTCTGTTCACTGTCCCTTCTGCTCCTA  
 GCCAGGAAGTTGTCAACTGCGTTCCAACACACGGAAGAAAAGCTCTCTGGGTGGACTTGAAGAGG  
 CTGGAGGTGTACCACAAATAGGAGGGAAGACGAGGAGGAAGATGAAGGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC235122 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGISYVASFFLLLLTKLSIGQREVTVQKGPLFRAEGYPVSIKCVNVTGHQGPSEQHFQWSVYLPNTPTQEV  
 QIISTKDAAFSYAVYTQVRVSGDVYVERVQGNVLLHISKLMKDAGEYECHTPNTDEKYYGSYSAKTNL  
 IVIPDTLSATMSSQTLGKEEGEPLALTCEASKATAQHHTLSVTWYLTQDGGGSQATEIISLSKDFILVPG  
 PLYTERFAASDVQLNKLGPPTFRLSIERLQSSDQQLFCEATEWIQDPDETWMFITKKQTDQTLRIQPA  
 VKDFQVNIADSLFAEGKPLELVCLVSSGRDPQLQGIWFFNGTEIAHIDAGGVLGLKNDYKERASQGEL  
 QVSKLGPKAFSLKIFSLGPEDEGAYRCVVAEVMKTRTGSWQVLQRKQSPDSHVHLRKPAAARSVMSTKNK  
 QQVWVEGETLAFCKAGGAESPLSVSWWHIPRDQTQPEFVAGMGQDQIVQLGASYGVPSYHGNTREKMD  
 WATFQLEITFTAITDSGTIECRVSEKSRNQARDLSWTQKISVTVKSLESSLQVSLMSRQPQVMLTNTFDL  
 SCVVRAGYSDLKVPLTVTWQFQPASSHIFHQLIRITHNGTIEWGNFLSRFQKTKVQSLSFRSLLVHDA  
 TEEETGVYQCEVEVYDRNSLYNNRPPRASAI SHPLRIAVTLPESKLKVNRSRQVQELINSNTDIECSIL  
 SRSNGLQLAIIWYFSPVSTNASWLKILEMDQTNVIKTGDEFHTPQRKQKFHTEKVSQDLFQLHILNVED  
 SDRGKYHCAVEEWLLSTNGTWHKLGEKKSGLTELKLPKPTGSKVRVSKVYWTENVTEHREVAIRCSLESV  
 SSATLYSVMWYNNRENSGSKLLVHLQHDGLLEYGEEGLRRHLHCYRSSTDFVLKHLQVEMEDAGMYWCR  
 VAEWQLHGHPKWINQASDESQRMVLTVLPSEPTLPSRICSSAPLLYFLFICPFVLLLLLLISLLCLYWK  
 ARKLSLRSNTRKEKALWDLKEAGGVTTNRREDEEEDEGN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8116\\_a10.zip](https://cdn.origene.com/chromatograms/mk8116_a10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001256109

**ORF Size:** 3063 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\\_001256109.2](#), [NP\\_001243038.1](#)

**RefSeq Size:** 3520 bp

**RefSeq ORF:** 3066 bp

**Locus ID:** 9398

UniProt ID: [Q93033](#)

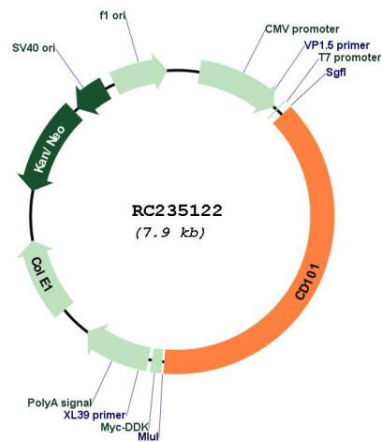
Cytogenetics: 1p13.1

Protein Families: Transmembrane

MW: 115.1 kDa

**Gene Summary:** Plays a role as inhibitor of T-cells proliferation induced by CD3. Inhibits expression of IL2RA on activated T-cells and secretion of IL2. Inhibits tyrosine kinases that are required for IL2 production and cellular proliferation. Inhibits phospholipase C-gamma-1/PLCG1 phosphorylation and subsequent CD3-induced changes in intracellular free calcium. Prevents nuclear translocation of nuclear factor of activated T-cell to the nucleus. Plays a role in the inhibition of T-cell proliferation via IL10 secretion by cutaneous dendritic cells. May be a marker of CD4(+) CD56(+) leukemic tumor cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC235122