

## Product datasheet for **RC235121**

### CD101 (NM\_001256106) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD101 (NM\_001256106) 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:** >RC235121 representing NM\_001256106  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCAGGCATCTCATATGTGGCATCTTTCTTTCTCCTTCTGACTAAGCTCAGCATTGGCCAGAGAGAAG  
 TAACAGTTCAGAAAGGACCCTGTTAGAGCTGAAGGTTACCCAGTCAGCATTGGCTGCAATGTAAGTGG  
 CCACCAGGGACCTTCTGAGCAGCATTCCAGTGGTCTGTTACCTGCCGACAAACCCGACCCAGGAAGTC  
 CAGATCATTAGCACCAAGGATGTGCCTTCTTACGCAGTATATACGCAGCGGGTGCAGGAGGAGACG  
 TCTACGTGGAGAGGGTCCAGGGCAACTCAGTCTTGTGACATCTCAAACTCCAGATGAAGGATGCTGG  
 CGAGTATGAGTGTACACACCAAACACTGATGAGAAATACTATGGAAGTTACAGTGCAAAGACTAATCTA  
 ATTGTTATTCCAGATACCTCTCTGCCACCATGAGTTCTCAGACTCTCGGTAAGGAGGAAGTGAGCCAT  
 TAGCCCTCACCTGTGAGGCATCCAAAGCCACAGCCCAACATACTCACCTCTGTGACCTGGTACCTAAC  
 ACAGGATGGAGGAGGAAGCCAAGCCACTGAGATTATTTCTCTCTCAAAGATTTTATATTGGTCCCTGGG  
 CCCTTGTATACAGAGCGGTTTGCAGCCAGTGACGTACAGCTCAACAACTGGGACCCACTACATTCAGGC  
 TGTCATAGAGAGGCTCCAGTCTCAGATCAGGGTCTGTTCTGTGAGGCAACGGAATGGATTCAGGA  
 TCCAGATGAAACTTGGATGTTTCAACAAAAAGCAGACCGATCAAACCACTCTGAGGATCCAGCCAGCA  
 GTGAAAGATTTTCAAGTCAACATTACAGCTGACAGCTTGTGTTGCTGAAGGAAACCCCTTAGAAGTGGT  
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 TCACATTGATGCTGGTGGAGTCTGGGCCTGAAGAATGACTACAAAGAGAGAGCAAGTCAAGGAGAGCTC  
 CAGGTTTCAAAGTTAGGCCCAAGGCTTTCTCTCAAGATCTTCTCTGGGCCAGAGGATGAAGGCG  
 CCTACAGATGTGTGAGTAGCAGAGGTCATGAAAACACGCACAGGTTCTGGCAGGTGCTTCAGAGAAAGCA  
 GTCACCAGACAGCCAGTGCACCTGAGGAAGCCAGCAGCAAGAAGTGTGGTCATGTCTACCAAGAACAAG  
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 CATTGTGACGCTGGGTGCCTCTATGGGTACCCAGTTACCATGGCAACACAAGGCTGGAGAAAATGGAC



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TGGGCCACCTTCCAGCTGGAGATCACCTTCACTGCCATCACAGACAGTGGCACATATGAGTGCAGAGTAT  
 CTGAGAAGTCTCGGAACCCAGGCCAGAGATCTGAGCTGGACTCAGAAGATTTCAAGTACTGTAAGTCTCT  
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 ACTTGCAACATGATGGCTTGTGGAGTATGGGGAAGAGGGGCTCAGGAGGCACCTGCACTGTTACCGTTC  
 ATCCTCTACAGACTTTGTCTGAAGCTTCACTAGGTGGAGATGGAGGATGCAGGAATGACTGGTGTAGG  
 GTGGCAGAGTGGCAGCTCCATGGACACCAAGCAAGTGGATTAATCAAGCATCCGATGAGTACACGGGA  
 TGGTGCTCAGGTGCTGCCTTCCAGCCACGCTTCTTCCAGGATCTGCTCCTCGGCCCTTTACTCTA  
 TTTCTGTTTCTGTCCCTTCTGCTCCT  
 GCCAGGAAGTTGTCAACTGCGTTCCAACACACGGAAAGAAAAGCTCTCTGGGTGGACTTGAAGAGG  
 CTGGAGGTGTACCACAAATAGGAGGGAAGACGAGGAGGAAGATGAAGGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC235121 representing NM\_001256106  
 Red=Cloning site Green=Tags(s)

MAGISYVASFFLLLLTKLSIGQREVTVQKGPLFRAEGYPVSIKCVNVTGHQGPSEQHFQWSVYLPNTPTQEV  
 QIISTKDAAFSYAVYTQVRVSGDVYVERVQNGSVLLHISKLMKDAGEYECHTPNTDEKYYGSYSAKTNL  
 IVIPDTLSATMSSQTLGKEEGEPLALTCEASKATAQHHTLSVTWYLTQDGGGSQATEIISLSKDFILVPG  
 PLYTERFAASDVQLNKLGPPTFRLSIERLQSSDQQLFCEATEWIQDPDETWMFITKKQTDQTLRIQPA  
 VKDFQVNIADSLFAEGKPLELVCLVSSGRDPQLQGIWFFNGTEIAHIDAGGVLGLKNDYKERASQGEL  
 QVSKLGPKAFSLKIFSLGPEDEGAYRCVVAEVMKTRTGSWQVLQRKQSPDSHVHLRKPAAARSVVMSTKNK  
 QQVWVEGETLAFCKAGGAESPLSVSWWHIPRDQTQPEFVAGMGQDQIVQLGASYGVPSYHGNTREKMD  
 WATFQLEITFTAITDSGTIECRVSEKSRNQARDLSWTQKISVTVKSLESSLQVSLMSRQPQVMLTNTFDL  
 SCVVRAGYSDLKVPLTVTWQFQPASSHIFHQLIRITHNGTIEWGNFLSRFQKTKVQSLSFRSLLVHDA  
 TEEETGVYQCEVEVYDRNSLYNNRPPRASAI SHPLRIAVTLPESKLKVNSRSQVQELSINSNTDIECSIL  
 SRSNGNLQAI IYWYFSPVSTNASWLKILEMDQTNVIKTGDEFHTPQRKQKFHTEKVSQDLFQLHILNVED  
 SDRGKYHCAVEEWLLSTNGTWHKLGEKKSGLTELKPKPTGSKVRVSKVYWTENVTEHREVAIRCSLESV  
 SSATLYSVMWYWNRENSGSKLLVHLQHDGLLEYGEEGLRRHLHCYRSSTDFVLKHLQVEMEDAGMYWCR  
 VAEWQLHGHPKWINQASDESQRMVLTVLPSEPTLPSRICSSAPLLYFLFICPFVLLLLLLLSILLCLYWK  
 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\_001256106

**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\\_001256106.2](#), [NP\\_001243035.1](#)

**RefSeq Size:** 3551 bp

**RefSeq ORF:** 3066 bp

**Locus ID:** 9398

UniProt ID: [Q93033](#)

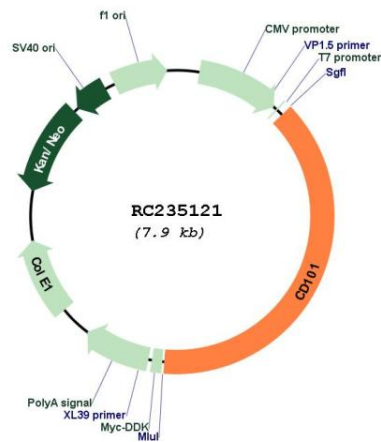
Cytogenetics: 1p13.1

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 RC235121