

Product datasheet for **RC239827**

CD101 (NM_001256111) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD101 (NM_001256111) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD101
Synonyms:	EWI-101; IGSF2; V7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239827 representing NM_001256111
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGGCATCTCATATGTGGCATCTTTCTTTCTCCTTCTGACTAAGCTCAGCATTGGCCAGAGAGAAG
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 CCACCAGGGACCTTCTGAGCAGCATTCCAGTGGTCTGTTTACCTGCCGACAAACCCGACCCAGGAAGTC
 CAGATCATTAGCACCAAGGATGCTGCCTTCTTACGCAGTATATACGCAGCGGGTGCGAAGCGGAGACG
 TCTACGTGGAGAGGGTCCAGGGCAACTCAGTCTTGTGCACATCTCAAACTCCAGATGAAGGATGCTGG
 CGAGTATGAGTGTACACACCAAACTGATGAGAAATACTATGGAAGTTACAGTGCAAAGACTAATCTA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239827 representing NM_001256111
 Red=Cloning site Green=Tags(s)

MAGISYVASFFLLLTKLSIGQREVTVQKGPLFRAEGYPVSI GCNVTGHQGPSEQHFQWSVYLPNTPTQEV
 QIISTKDAAFSYAVYTQVRVSGDVYVERVQNSVLLHISKLQMKDAGEYECHTPNTDEKYYSYSAKTNL
 IDFILVPGPLYTERFAASDVQLNKLGP TTFRLSIERLQSSDQQLFCEATEWIQDPDETWMFITKKQTDQ
 TTLRIQPAVKDFQVNITADSLFAEGKPLELVCLVVSSGRDPQLQGIWFFNGTEIAHIDAGGVLGLKNDYK
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 NTRLEKMDWATFQLEITFTAITDSGTYECRVSEKSRNQARDLSWTQKISVTVKSLESSLQVLSMRQPQV
 MLTNTFDLSCVVRAGYSDLKVPLTVTWQFQPASSHIFHQLIRITHNGTIEWGNFLSRFQKKTKVSQSLFR
 SQLLVHDATEEETGVYQCEVEVYDRNSLYNNRPPRASAI SHPLRIAVTLPE SKLKVNSRSQVQELSINSN
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 LHILNVEDSDRGKYHCAVEEWLLSTNGTWHKLGEKSSGLTELKLP TGSKVRVSKVYWTENVTEHREVAI
 RCSLE SVGSSATLYSVMWYWNRENSGSKLLVHLQHDGLLEYGEEGLRRHLHCYRSSSTDFVLKLHQVEME
 DAGMYWCRVAEWQLHGHP SKWINQASDESQRMVLT VLPSEPTLPSRICSSAPLLYFLFICPFVLLLLLLLI
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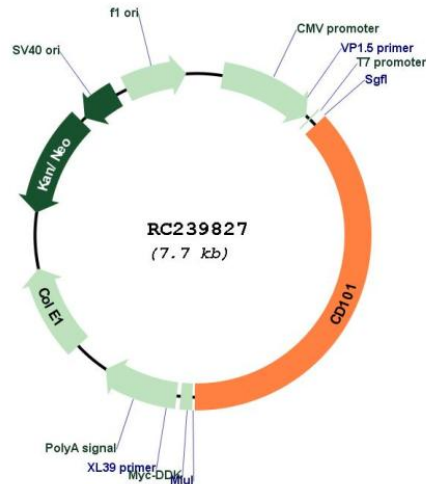
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001256111

ORF Size: 2877 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_001256111.2](#), [NP_001243040.1](#)

RefSeq Size: 3334 bp

RefSeq ORF: 2880 bp

Locus ID: 9398

Cytogenetics: 1p13.1

Protein Families: Transmembrane

MW: 109.1 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]