

Product datasheet for **SC117463**

CD101 (NM_004258) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: CD101

Synonyms: EWI-101; IGSF2; V7

Mammalian Cell None

Selection:

Vector: pCMV6-XL4

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC117463 sequence for NM_004258 edited (data generated by NextGen Sequencing)

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ATGGCAGGCATCTCATATGTGGCATCTTTCTTTCTCCTTCTGACTAAGCTCAGCATTGGC
CAGAGAGAAGTAACAGTTCAGAAAGGACCACTGTTTAGAGCTGAAGGTTACCCAGTCAGC
ATTGGCTGCAATGTAAGTGGCCACCAGGACCTTCTGAGCAGCATTTCAGTGGTCTGTT
TACCTGCCGACAAACCCGACCCAGGAAGTCCAGATCATTAGCACCAAGGATGCTGCCTTC
TCTTACGCAGTATATACGCAGCGGGTGCGAAGCGGAGACGTCTACGTGGAGAGGGTCCAG
GGCAACTCAGTCTTGTGACATCTCAAACTCCAGATGAAGGATGCTGGCGAGTATGAG
TGTCACACACCAAACTGATGAGAAATACTATGGAAGTTACAGTGCAAGACTAATCTA
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GACGTACAGCTCAACAACTGGGACCCACTACATTAGGCTGTCCATAGAGAGGCTCCAG
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GAACTGGTTTGCCTGGTTGTAAGCAGTGGCCGTGACCCACAGCTTCAAGGCATTTGGTTC
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AGCCACGTGCACCTGAGGAAGCCAGCAGCAAGAAGTGTGGTGTCTACCAAGAACAAG
CAGCAAGTTGTGTGGGAAGGAGAGACACTCGCCTTTCTCTGTAAGGCTGGTGGAGCTGAA
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ACTGCCATCACAGACAGTGGCACATATGAGTGCAGAGTATCTGAGAAGTCTCGGAACCAG
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CCGAGAGATCTGAGCTGGACTCAGAAGATTTCACTTACTGTAAGTCTCTGGAGTCAAGT
TTACAAGTTAGTCTGATGAGCCGTGACGCCGAAGTGATGTTAAACCAACACCTTTGACCTG
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GCCAGGAAGTTGTCAACTGCGTTCCAACACACGGAAGAAAAAGCTCTCTGGGTGGAC
TTGAAAGAGGCTGGAGGTGTGACCACAAATAGGAGGGAAGACGAGGAGGAAGATGAAGGC
AACTGA

Clone variation with respect to NM_004258.3
1243 a=>g

5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_004258 unedited

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GGATTTTGAATACGACTCACTATAGGGCGGCNCGGATTCGGCACCAGGNACTGTGCTG
GCCAAATGGCAGGCATCTCATATGTGGCATCTTTCTTTCTCCTTCTGACTAAGCTCAGC
ATTGGCCAGAGAGAAGTAACAGTTCAAAAGGACCACGTGTTTAGAGCTGAAGGTTACCCA
GTCAGCATTTGGCTGCAATGTAAC TGCCACCAGGGACCTTCTGAGCAGCATTTCCAGTGG
TCTGTTTACCTCGCCGACAAACCCGACCCAGGAAGTCCAGATCATTAGCACCAAGGATGCT
GCCTTCTCTTACCGAGTATATACGACGGGTGCGAAGCGGAGACGTCTACGTGGAGAGG
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TATGAGTGTACACACCAAACACTGATGAGAAATACTATGGAAGTTACAGTGCAAAGACT
AATCTAATTGTTATTCCAGATACCTCTCTGCCACCATGAGTTTCTCAGACTCTCGGTAAG
GAGGAAGGTGAGCCATTAGCCCTCACCTGTGAGGCATCCAAGCCACAGCCCAACATACT
CACCTCTCTGTCACTGGTACCTAACACAGGATGGAGGAGGAAGCCAAGCCACTGAGATT
ATTTCTCTCTCAAAGATTTTATATTGGTCCCTGGGCCCCGTGATACAGAGCGGTTTGCA
GCCAGTGACGTACAGCTCAACAAACTGNGACCCACTACATTCAGGCTGTNCATAGAGAGG
CTCCAGTCCTCAGATCAGGGTCAGCTGTTCTGTGAGGCAACGGAATGGATT CANGATCCA
GATTGAACTTGATGNTCATCAAAAAAGCAGACCGATCAAACCACTCTGAGGATCCAG
CCAGACGATGAAGATTTCAAGTCACATTACGTGACGACGCTTGTGCTGAAGGAAACCN
TANACTGNTTGCCTGNTGTAANCAATGCCGTGACACAA
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3' Read Nucleotide
Sequence:

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>OriGene 3' read for NM_004258 unedited
GCGGCGGGCCANCANCNTCCCTCTTNNNNNNNNNNNTTACTGTGANCCGCGNCCGCAT
TCTGANGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTGGGGGGGGGAGAAAAGGGAGTTTTTTTTTTTTTTTTTTTACTTGGCACAACAAGGGAAGC
CCTGGGAATACCCTCCAAGCGGGTCTTTAAGGAAAGGACCGAGGGTTTATGGGG
GGATGGAAGGGGAAAAAGTGCCTTGGTGCCTGTAGGGGAGGGGGCCAGGGGCCCCC
CCAATGAGTCTCTGCCACCCACAGGGCACATGTTACGGGCATGAACTATAACTCCC
CCTGGGGGAGGGACTTCAGGAGGGGAATGAGGAAAGTCCCTTGGGTTCATCTAAAAATT
GCCGGGTCTGTCAAGGAGCTGGTCCCGGGGACTAGGGCACCCATTCCACACGGGGCTT
GGGAAAAACAGGCCGCAAGGGCGGAAGCTTCTCTCTGGCTGCAGGGGCCTCTTGGGA
TTCAAATGCCTTAATTTTCTCCCGGGTCCCTCCTATTTGGGGGCACACCCCGCCT
TTTTCAAGGCCACCCGAGAGCTTTTTCTTTCCGGGGGTGGAACCCACTGTTGAAAACT
TCCTGGCCTTCCCGTTTAACCCCGGGAGGGGAATTACCCTAAGGAGGGGCCGACCCAA
GGGCCCAATGACCCGAAATTTTATTAAGGGGGCCAGGACCCAAACCCTGGAAGAAAAC
GGGGCTTTTAAGGCACACCGCGACCCCATCGCTGTGGGATATTGGAAGGCTTGAAAA
ACCCCTGCCTGGGGGGCCACTGGAGTTGCCCTTTTCCCCCTAAACCAAAAATTTCTG
GCTCCCTTTTCCCTGAGGAACTTCCGGACAAAATTTTAGAAGAATAAACGGAAC
ACAGCCGGGGGCCTTCTGAACCCCTTTTCCCN
```

Restriction Sites:

NotI-NotI

ACCN:

NM_004258

Insert Size:

3750 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_004258.1, NP_004249.1</u>
RefSeq Size:	3340 bp
RefSeq ORF:	3066 bp
Locus ID:	9398
UniProt ID:	<u>Q93033</u>
Cytogenetics:	1p13.1
Domains:	ig, IGv, IG
Protein Families:	Transmembrane
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1, 2 and 3 all encode isoform 1.