

Product datasheet for **MC223302**

Cd101 (NM_001167906) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd101 (NM_001167906) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd101
Synonyms:	EWI-101; Gm734; Gm1016; Igsf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223302 representing NM_001167906 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATGCATCCTGTGTGGCATCTCTTTCTCTCTCTAACTAAGTTCAGCATCGGCCAGAGGGAAG
TAAAAATCAAGAAGGCCCTCTGTACAGAGCCGAAGTTACCCTGTCAGCATCAGGTGCACCGTAAGTGG
TCATCAGGGTCCCTCCACGCAGGATTTCCGGTGGTCTATTTACCTGCCAAGCGCCCGACCAAGGAAGTC
CAGATCATCAGTACCAAGGATGCCGGCTTCTCTTACGCAGTGTATGCCAAGGGGTGCAAAGCAAGGAGA
TCTACATAGAGAGGCTGCAGGGTGAAGTCCGCTGCTGCATATCTCAAACTCCAGATGAAAGATGCTGG
CGAGTACGAGTGCACACACCCAAACACGGATGGGAAGTACTTTGGAAGTTACAGTGCAAAGACAAATCTT
ACTGTGGTCCCGACACCCTGTCTGCCACCATGCCCTCCAGACGCTCAGTAAGAAGGAAGGTGAGCCCT
TGGAACTCACCTGTGAGACAACCAAGCCACCGTGAACACACCCATCTCTCTCACCTGGTACCTGAT
GCAGGAAGGAGGAGGGAGCCAAGCCACTGAGATCGTTTCTCTCTCAAGGACTTTGTATTGACCCCTGGG
TCCTCCTATGCAGACAGGTTTGTGGCCGGTGTGTACGGCTGGACAAGCTTGAGCCACTTCCTTCAGGC
TGCTGTAGGCAAGCTCCAGCCCTCAGATCAGGGCCAGGTGTTCTGTGAGGCCACAGAATGGATTACAGCA
TCCAGATGAAACGTGGACTTTGATCACAAGAAAGCAGACAGATCAAACAGCTCTGAGGATCCAGCCGGCA
GCAAGAGATTTTACAGTGAGCATCACAGCCAGTAGCTCACCTGATGAAGGAAAACCTTGGAAGTGGTTT
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CCAGACTGATGCTGGTGGGTCTGGACCTGAAGAGAGACTACAGAGACAGAGCGAGCCAAGGCCAGCTG
CAGGTGTCAAAGTTAAGTGCCAGACGTTCTCTCAAGATCTTCCGTGGGTCCAGAGGATGTAGGCA
CCTACAGTTGTGAAGTGGCAGAGGTGGCAGGACTCAGATGGGCTCCTGGCAGGTAAGTTCAGAGAAAGCA
GTCACCAGGCTACCGGTGCAGCTGAGGGAGCCAGCAGCAAGAAGTGTGACCGTGTCTGCCGAGCAGCGT
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GTTGGTGGCTCACCCACAGGACAGTCCACACCCGTGTTTGTGGCTGGCATGGGCAAGATGGTACTGT
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ACCTTTCGGTGGAGATTGCCTCTGCCATGGTCACAGACAGCGGTACCTATGAATGCAGGGTGTACAGAGA



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GACTCCAGAACCAGGCCAAAGGTTTGCAGTCAACCCAGAAGATTCAGTCACTGTAAAATCTCTGAAGTC
AAGTTTACGAGTTAATCTGATGAGCCGTCAGCCACAAGTGATGCTAGCCCATACCTTCCACCTGTCTGT
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GAGGAGACAGGGGTGTATCGGTGTACAGTGGAGTTTATGACAGAGATTCATATGCACAAGTGGCCAG
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CTCAAGCAGTCAGGTCCAAGAGCTATCCATCAGCTCCAGCACTCAGATAGAATGTGCCATCTTGCCCGA
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GAAAGACTTCAGGACTCACAGAATTGAAACTCAGGCCACAGGAAGCCAGGTCCATGTCTCAAAGTGAA
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GCTTCCCTATACTCTGTGACATGGTACCGGGCCAGAGGAACTGCCACGGCTACTGCTGCCGAGTTGCCA
ATGCCACTGCCACCATCACTGCCCCCGCAGGGAGTCAAATGCTGGTGCACCTGCAGTATGACGGCTTGCT
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AGAGCCCACGGTCTCCTCCCTGATCTGCTCCTCGGGGCCCTTGTCCACTTCTCATCGTCTGCCCTTC
GTCTGCTGCTCCTTCTGGCCACGTCCTTCTCTGCTTGTACCGGAAGGCCAGGAAGTTGTACAGCTGA
GTCTCAGTGCAAAGAAAAGGCTCTCTGGTGGGCATGAGAAAGACATCACTTCAGAAGGAAGCTGG
AGAGGAGAGTGGACACTGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001167906

Insert Size:

3102 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.

RefSeq: [NM_001167906.1](#), [NP_001161378.1](#)

RefSeq Size: 3254 bp

RefSeq ORF: 3102 bp

Locus ID: 630146

UniProt ID: [A8E0Y8](#)

Cytogenetics: 3 F2.2

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 (By similarity). [UniProtKB/Swiss-Prot Function]