

## Product datasheet for MC223303

### Cd101 (NM\_001099332) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd101 (NM_001099332) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd101
Synonyms:	Gm734; Gm1016; Igsf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223303 representing NM_001099332 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTTTAAACTTCTCTGTCATCAGTTTCTGCTAAGTTCAGCATCGGCCAGAGGGAAGTAAAAATCAAG  
AAGGCCCTCTGTACAGAGCCGAAGGTTACCTGTCAGCATCAGGTGCACCGTAAGTGGTCATCAGGGTCC  
TTCCACGCAGGATTTCCGGTGGTCTATTTACCTGCCAAGCGCCCCGACCAAGGAAGTCCAGATCATCAGT  
ACCAAGGATGCCGGCTTCTTTACGCAGTGTATGCCAGAGGGTGCAAAGCAAGGAGATCTACATAGAGA  
GGCTGCAGGGTGACTCGTCTGCTGCATATCTCAAACTCCAGATGAAAGATGTGGCGAGTACGAGTG  
CCACACACCCAACACGGATGGGAAGTACTTTGGAAGTTACAGTGCAAAGACAAATCTTACTGTGGTTCCC  
GACACCTGTCTGCCACCATGCCCTCCCAGACGCTCAGTAAGAAGGAAGGTGAGCCCTTGGAACTCACCT  
GTGAGACAACCAAGCCACCGTGCAACACCCATCTCTCTCACCTGGTACCTGATGCAGGAAGGAGG  
AGGGAGCCAAGCCACTGAGATCGTTTCTCTCCAAGGACTTTGTATTGACCCCTGGGTCTCTATGCA  
GACAGGTTTGTGGCCGGTGTGTACGGCTGGACAAGCTTGGAGCCACTTCCTTCAGGCTGCTGTAGGCA  
AGTCCAGCCCTCAGATCAGGGCCAGGTGTTCTGTGAGGCCACAGAATGGATTGAGATCCAGATGAA  
GTGGACTTTGATCACAAGAAAGCAGACAGATCAAACAGCTCTGAGGATCCAGCCGCAGCAAGAGATTTT  
ACAGTGAGCATCACAGCCAGTAGCTCACCTGATGAAGGAAAACCTTGGAACTGGTTTGCCTGGCTGTTG  
GCAGAGATGGTAACCCGAGCTTCAAGGTTGTGGTTTCTCAATGGGAAGGAAATGCCAGACTGATGC  
TGGTGGGGTCTGGACCTGAAGAGAGACTACAGAGACAGAGCGCAAGGCCAGCTGCAGGTGTCAAAG  
TTAAGTGCCAGACGTTCTCTCAAGATCTTCTCCGTGGGTCCAGAGGATGTAGGCACCTACAGTTGTG  
AAGTGGCAGAGGTGGCGAGGACTCAGATGGGCTCTGGCAGTACTTCAGAGAAAGCAGTACCAGGCTA  
CCGGGTGCAGCTGAGGGAGCCAGCAGCAAGAAGTGTGACCGTGTCTGCCAGCAGCGTACTGTGTGGAA  
GGAGAGACGCTTACCCTTCTCTCAAGGACGCTGGGGATGTGAGTGTCTATCTGTGAGTTGGTGGCTCA  
CCCCACAGGACCAAGTCCACACCCGTGTTTGTGGCTGGCATGGGGCAAGATGGTACTGTGCAGCTGGGAGT  
CTTTCTCCGGGCCCTGCGCACCGTGGTAAACAGGAGGCTGGAGAAAGTGGACTGGCCACCTTTCCGGCTG  
GAGATTGCCTCTGCCATGGTCACAGACGCGGTACCTATGAATGCAGGGTGTGAGAGAGACTCCAGAACC



AGGCCAAAGGTTTGCAGTCAACCCAGAAGATTTTCAGTCACTGTAAAATCTCTGAAGTCAAGTTTACGAGT  
 TAATCTGATGAGCCGTCAGCCACAAGTGATGCTAGCCCATACCTTCCACCTGTCTGTAGTGAGGGCC  
 AACTACTCGGATCTCAAGCTGCCGTTCTCGGTAACGTGGCAGTTCAGCCAGCGGGCTCTGGAGCCTTTC  
 ATCGGCTTATTCGAATTGCCACAATGGCACCGTTGAATGGGGGACGTCTCTCCAGATCCACAGGAA  
 GACGAAGGTGTACAGTCTTTCTTTTCGTTCTCACTCCAAATCTACGATGCAGCTATGGAGGAGACAGGG  
 GTGTATCGGTGTACAGTGGAGGTTTATGACAGAGATCCATATGCACAAGTGGCCAGCCAGAGTATCTG  
 CCACCTAACCTATTAATGATTACTGTCACCTTCCAGAGAGCAAAGTGAAGTGAAGTGAAGTGAAGTGA  
 GGTTCCAAAGAGCTATCCATCAGCTCCAGCACTCAGATAGAATGTGCCATTTGTCCCGATCTGCTGGAAC  
 CTTCCGTTATCCATCATTGGTACTTCTCTTCCGTTTCTGCAAATGCATCCTATCTGAAAATCCTAGAAA  
 TGGACCAAAGCAGTGTGTAATAATGAGGACGAATTTCAAACCCTCGGAGCAAGCAAAAATTTTATTC  
 TGAGAAAGTTTCTCAAGACTTATTTCTGCTGAACATTCTGAGTGTGGAGGACAGTGACCAGGGCCACTAC  
 CACTGTGCTGTAGAGGAATGGCTCTTATCTACAAATGACACTTGGCAAAGCTTGAAGAAAGACTTCAG  
 GACTCACAGAATTGAAACTCAGGCCACAGGAAGCCAGGTCCATGTCTCCAAAGTGAATTGGACAGGAAA  
 CGTACCAGATGAGAGGCGGGCTTCAGCTGCAGCCTAGATGGCTCAGGCAGCACAGCTTCCCTATAC  
 TCTGTGACATGGTACCGGGCAGAGGAAGTCCACGGCTACTGCTGCCGAGTTGCCAATGCCACTGCCA  
 CCATCACTGCCCCCGAGGGAGTCAAATGCTGGTGCACCTGCAGTATGACGGCTTCTGCTGAGTATGGCAG  
 AGAGGGGAGCAGGAGGCTCCAGCACTGCTACCGATCCTCTCCACAGACTTCGTCCTGAAGCTGCATCGG  
 GTGAAAATGGAGGATGCTGGGATATATTGGTGCAGGGTACTGAGTGGCAGCAACATGGCCACCCAGGCA  
 AGTGGATCAACCAAGCCTCAGGCGAGTCGAACGAATGGTGTGCTCAGGGTGTGCGCTCAGAGCCCAGGT  
 CTCCTCCCTGATCTGCTCCTCGGGGCCCTTGTCCACTTCTCATCGTCTGCCCTTCGTCATGCTGCTC  
 CTTCTGGCCACGTCCTTCTGCTTGTACCGGAAGGCCAGGAAGTTGTACAGCTGAGTCTCAGTGCAA  
 AGAAAGAAAAGGCTCTCTGGGTGGGCATGAGAAAGACATCACTTCAGAAGGAAGCTGGAGAGGAGAGTGG  
 AACTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001099332

**Insert Size:**

3090 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001099332.2](#), [NP\\_001092802.2](#)

**RefSeq Size:**

3242 bp

**RefSeq ORF:**

3090 bp

**Locus ID:** 630146

**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]