

## Product datasheet for MR216655

### Cd101 (NM\_001167906) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd101 (NM_001167906) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd101
Synonyms:	EWI-101; Gm734; Gm1016; Igsf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216655 representing NM_001167906 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCATGCATCCTGTGTGGCATCTCTTTCTCTCTCTAACTAAGTTCAGCATCGGCCAGAGGGAAG  
TAAAAATCAAGAAGGCCCTCTGTACAGAGCCGAAGTTACCCTGTACAGCATCAGGTGCACCGTAAGTGG  
TCATCAGGGTCTTCCACGCAGGATTTCCGGTGGTCTATTTACCTGCCAAGCGCCCCGACCAAGGAAGTC  
CAGATCATCAGTACCAAGGATGCCGGCTTCTCTTACGCAGTGTATGCCAGAGGGTGCAAAGCAAGGAGA  
TCTACATAGAGAGGCTGCAGGGTACTCGGTCCTGCTGCATATCTCAAACTCCAGATGAAAGATGCTGG  
CGAGTACGAGTGCCACACACCCAACACGGATGGGAAGTACTTTGGAAGTTACAGTGCAAAGACAAATCTT  
ACTGTGGTTCCCGACACCTGTCTGCCACCATGCCCTCCCAGACGCTCAGTAAGAAGGAAGTGGAGCCCT  
TGGAACTCACCTGTGAGACAACCAAAGCCACCGTGCAACACACCCATCTCTCTCACCTGGTACCTGAT  
GCAGGAAGGAGGAGGCAAGCCACTGAGATCGTTTCTCTCCAAGGACTTTGTATTGACCCCTGGG  
TCCTCCTATGCAGACAGGTTTGTGGCCGGTGTGTACGGCTGGACAAGCTTGGAGCCACTTCCTTCAGGC  
TGTCTGTAGGCAAGCTCCAGCCCTCAGATCAGGGCCAGGTGTTCTGTGAGGCCACAGAATGGATTGAGGA  
TCCAGATGAAACGTGGACTTTGATCACAAGAAAGCAGACAGATCAAACAGCTCTGAGGATCCAGCCGGCA  
GCAAGAGATTTTACAGTGCATCAGCCAGTACTCACCTGATGAAGGAAAACCCCTTGGAACTGGTTT  
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CCAGACTGATGCTGGTGGGTCCTGGACCTGAAGAGAGACTACAGAGACAGAGCGAGCCAAAGGCCAGCTG  
CAGGTGTCAAAGTTAAGTGCCAGACGTTCTCTCAAGATCTTCTCCGTGGGTCCAGAGGATGTAGGCA  
CCTACAGTTGTGAAGTGGCAGAGGTGGCGAGGACTCAGATGGGCTCCTGGCAGGTAATTCAGAGAAAGCA  
GTCACCAGGCTACCGGTGCAGCTGAGGGAGCCAGCAGCAAGAAGTGTGACCGTGTCTGCCGAGCAGCGT  
ACTGTGTGGGAAGGAGAGACGCTTACCCTTCTCTGCAAGGCAGCTGGGGATGTGAGTGTCTATCTGTGA  
GTTGGTGGCTCACCCACAGGACCAGTCCACCCGTTTGTGGCTGGCATGGGCAAGATGGTACTGT  
GCAGCTGGGAGTCTTCTCCGGGCCCTGCGCACCGTGTAAACAGGAGGCTGGAGAAAGTGGACTGGCC



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ACCTTTCGGCTGGAGATTGCCTCTGCCATGGTCACAGACAGCGGTACCTATGAATGCAGGGTGTCAGAGA
GACTCCAGAACCAGGCCAAAGGTTTGCAGTCAACCCAGAAGATTTAGTCACTGTAAAATCTCTGAAGTC
AAGTTTACGAGTTAATCTGATGAGCCGTCAGCCACAAGTGATGCTAGCCCATACCTTCCACCTGTCTGT
GTAGTGAGGGCCAACACTCGGATCTCAAGCTGCCGTTCTCGGTAACGTGGCAGTTCAGCCAGCGGGCT
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GATCCACAGGAAGACGAAGGTGTACAGTCTTTCTTTCGTTCTCAACTCCAAATCTACGATGCAGCTATG
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CCAGAGTATCTGCCACCTCTAACCTATTAATGATTACTGTACCTTTCCAGAGAGCAAACCTGAGCGTGAA
CTCAAGCAGTCAGGTCCAAGAGCTATCCATCAGCTCCAGCACTCAGATAGAATGTGCCATCTTGTCCCGA
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GCCACCCAGGCAAGTGGATCAACCAAGCCTCAGGCGAGTGCACAACGAATGGTGTCTCAGGGTGTGCGCTC
AGAGCCCACGGTCTCCTCCCTGATCTGCTCCTCGGGCCCTTGTCCACTTCTCATCGTCTGCCCTTC
GTCATGCTGCTCCTTCTGGCCACGTCCTTCTCTGCTTGTACCGGAAGGCCAGGAAGTTGTACAGCTGA
GTCTCAGTGCAAAGAAAAGGCTCTCTGGTGGGCATGAGAAAGACATCACTTCAGAAGGAAGCTGG
AGAGGAGAGTGGACACTAC
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
```

**Protein Sequence:**

&gt;MR216655 representing NM\_001167906

Red=Cloning site Green=Tags(s)

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MACILCVASLFLSLTKFSIGQREVKIQEGPLYRAEGYPVSIKRVTVSGHQGPSTQDFRWSIYLPSAPTKEV
QIISTKDAGFSYAVYAQRVQSKEIYIERLQGDSVLLHISKLMKMDAGEYECHTPNDGKYFGSYSAKTNL
TVVPTLSATMPSQTL SKKEGEPELTCETTKATVQHHTLSL TWYLMQEGGGSQATEIVLSL SKDFVLTPG
SSYADRFVAGDVRLDKLGATSFRLSVGKLQPSDQGVFCEATEWIQDPDETWTLI TRKQTDQ TALRIQPA
ARDFTV SITASSPDEGKPLEL VCLAVGRDGNPQLQGVWFLNGKEIAQTDAGGVLDLKRDRDRASQGQL
QVSKLSAQTFSLKIFSVGPEDVGTYSCEVAEVARTQMGSWQVLQRKQSPGYRVQLREPAARSVTVSAEQR
TVWEGETL TLLCKAAGDVSALSVSWWLTPQDQSTPVFVAGMGQDGTVQLGVSSPGPAHRGNRRLEKVDWA
TFRLEIASAMVTDSGTYE CRVSERLQNQAKGLQSTQKISVTVKSLKSSLRVNLMRSRQPQVMLAHTFHLSC
VVRANYS DLKLPFSVTWQFPAGSGAFHRLIRIAHNGTVEWGDVLSQIHRKTKVSQSFFRSQLQIYDAAM
EETGVYRCTVEVYDRDSICTSGPARVSATSNLLMITVTFPESKLSVNSSSQVQELSISSSTQIECAILSR
SAGNLP LSIWYFSSVSANASYLKILEMDQSSVVKYGDEFQTPRSKQKIFYSEKVSQDLFLNLSVSDSD
QGHYHC AVEEWLLSTNDTWQKLERKTSGL TELKLRPTGSQVHVSKVNWTGNATEYGEAGFSCSLDGGSGT
ASLYSVTWYRGRGTATATAAAVANATATITAPAGSQMLVHLQYDGLLQYGREGSRRLQHCYRSSPTDFVL
KLHRVEMEDAGIYWCRVTEWQQHGHGPKWINQASGESQRMVLRVLRSEPTVSSLICSSGPLLHFLIVCPF
VMLLLLATSFLCLYRKARKLSQLSL SAKKEKALWVGMRKTS LQKEAGEESGHY
    
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
    
```

**Chromatograms:**
[https://cdn.origene.com/chromatograms/mm9100\\_h11.zip](https://cdn.origene.com/chromatograms/mm9100_h11.zip)
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001167906

**ORF Size:** 3099 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](mailto: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](#)

**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\\_001167906.2](#)

**RefSeq Size:** 3254 bp

**RefSeq ORF:** 3102 bp

**Locus ID:** 630146

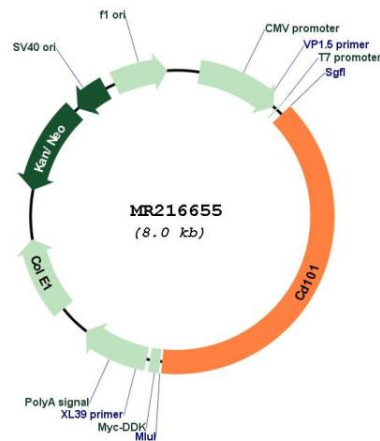
**UniProt ID:** [A8E0Y8](#)

**Cytogenetics:** 3 F2.2

**MW:** 114.2 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 (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR216655