

Product datasheet for **MG216655**

Cd101 (NM_001167906) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd101 (NM_001167906) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd101
Synonyms:	EWI-101; Gm734; Gm1016; Igsf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216655 representing NM_001167906 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATGCATCCTGTGTGGCATCTCTTTCTCTCTCTAACTAAGTTCAGCATCGGCCAGAGGGAAG
TAAAAATCAAGAAGGCCCTCTGTACAGAGCCGAAGTTACCCTGTACAGCATCAGGTGCACCGTAAGTGG
TCATCAGGGTCTTCCACGCAGGATTTCCGGTGGTCTATTTACCTGCCAAGCGCCCCGACCAAGGAAGTC
CAGATCATCAGTACCAAGGATGCCGGCTTCTTTACGCAGTGTATGCCAGAGGGTGCAAAGCAAGGAGA
TCTACATAGAGAGGCTGCAGGGTACTCGGTCCTGCTGCATATCTCAAACTCCAGATGAAAGATGCTGG
CGAGTACGAGTGCCACACACCCAACACGGATGGGAAGTACTTTGGAAGTTACAGTGCAAAGACAAATCTT
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GCAGGAAGGAGGAGGGAGCCAAGCCACTGAGATCGTTTCTCTCCAAGGACTTTGTATTGACCCCTGGG
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TGTCTGTAGGCAAGCTCCAGCCCTCAGATCAGGGCCAGGTGTTCTGTGAGGCCACAGAATGGATTACGGA
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ACCTTTCGGCTGGAGATTGCCTCTGCCATGGTCACAGACAGCGGTACCTATGAATGCAGGGTGTGAGAGA
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GTCATGCTGCTCCTTCTGGCCACGTCCTTCTCTGCTTGTACCGGAAGGCCAGGAAGTTGTACAGCTGA
GTCTCAGTGCAAAGAAAAGGCTCTCTGGTGGGCATGAGAAAGACATCACTTCAGAAGGAAGCTGG
AGAGGAGAGTGGACACTAC
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216655 representing NM_001167906
 Red=Cloning site Green=Tags(s)

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MACILCVASLFLSLTKFSIGQREVKIQEGPLYRAEGYPVSIKRVTVSGHQGPSTQDFRWSIYLPASPTKEV
QIISTKDAGFSYAVYAQRVQSKEIYIERLQGDVLLHISKLMKDAGEYECHTPNTDGKVFYSYSAKTNL
TVVPDLSATMPSQTLKKEGEPELTCETTKATVQHTHLSLWYLMQEGGGSQATEIVLSKDFVLTGPG
SSYADRFVAGDVRLDKLGATSFRLSVGKLQPSDQGVFCEATEWIQDPDETWTLIITRKQTDQTALRIQPA
ARDFTVSI TASSPDEGKPLELVCLAVGRDGNPQLQGVWFLNGKEIAQTDAGGVLDLKRDRDRASQGQL
QVSKLSAQTFSLKIFSVGPEDVGTYSCEVAEVARTQMGSWQVLQRKQSPGYRVQLREPAARSVTVSAEQR
TVWEGETLTLCKAAGDVSALSVSWWLTPQDQSTPVFVAGMGQDGTVQLGVSSPGPAHRGNRRLEKVDWA
TFRLEIASAMVTDSGTYEYCRVSRERLQNAKGLQSTQKISVTVKSLKSSLRVNLMSRQPQVMLAHTFHLSC
VVRANYSDLKLPFSVTWQFQPAGSGAFHRLIRIAHNGTVEWGDVLSQIHRKTKVQSFFRSQQLIYDAAM
EETGVYRCTVEVYDRDSICTSGPARVSATSNLLMITVTFPESKLSVNSSSQVQELSISSSTQIECAILSR
SAGNLPISIIWYFSSVSANASYLKILEMDQSSVVKYGFDEFQTPRSKQKQFYSEKVSQDLFLNLSVSDSD
QGHYHCAVEEWLLSTNDTWQKLERKTSGLTELKLRPTGSQVHVSQVNVNWTGNATEYGEAGFSCSLDGGSGT
ASLYSVTWYRGRGTATATAAANATATITAPAGSQMLVHLQYDGLLQYGREGSRRLQHCYRSSPTDFVL
KLHRVEMEDAGIYWCRTVEWQQHGHGPKWINQASGESQRMVLRVLRSEPTVSSLICSSGPLLHFLIVCPF
VMLLLLATSFLCLYRKARKLSQLSLSAKKEKALWVGMRKTSLQKEAGEESGHY
    
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TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1820_c08.zip

Restriction Sites:

Sgfl-Mlul

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 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

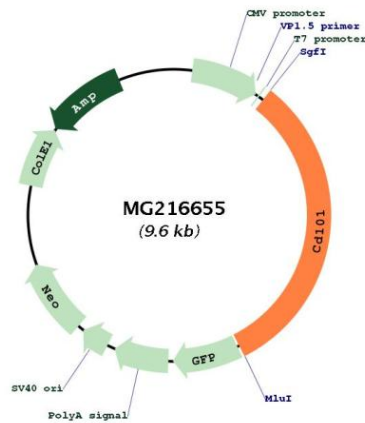
Locus ID: 630146

UniProt ID: [A8E0Y8](#)

Cytogenetics: 3 F2.2

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 MG216655