

Product datasheet for **RG235121**

CD101 (NM_001256106) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD101 (NM_001256106) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD101
Synonyms:	EWI-101; IGSF2; V7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235121 representing NM_001256106 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGCATCTCATATGTGGCATCTTTCTTTCTCCTTCTGACTAAGCTCAGCATTGGCCAGAGAGAAG
TAACAGTTCAGAAAGGACCCTGTTAGAGCTGAAGGTTACCCAGTCAGCATTGGCTGCAATGTAAGTGG
CCACCAGGGACCTTCTGAGCAGCATTCCAGTGGTCTGTTACCTGCCGACAAACCCGACCCAGGAAGTC
CAGATCATTAGCACCAAGGATGTGCCTTCTTACGCAGTATATACGCAGCGGGTGCAGGAGGAGACG
TCTACGTGGAGAGGGTCCAGGGCAACTCAGTCTTGTTCACATCTCAAACTCCAGATGAAGGATGCTGG
CGAGTATGAGTGTACACACCAAACACTGATGAGAAATACTATGGAAGTTACAGTGCAAAGACTAATCTA
ATTGTTATTCCAGATACCTCTCTGCCACCATGAGTTCTCAGACTCTCGGTAAGGAGGAAGTGAGCCAT
TAGCCCTCACCTGTGAGGCATCCAAAGCCACAGCCCAACATACTCACCTCTCTGTACCTGGTACCTAAC
ACAGGATGGAGGAGGAAGCCAAGCCACTGAGATTATTTCTCTCTCAAAGATTTTATATTGGTCCCTGGG
CCCTTGTATACAGAGCGGTTTGCAGCCAGTGACGTACAGCTCAACAACTGGGACCCACTACATTCAGGC
TGTCATAGAGAGGCTCCAGTCTCAGATCAGGGTCTGTTCTGTGAGGCAACGGAATGGATTCAGGA
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GTGAAAGATTTTCAAGTCAACATTACAGCTGACAGCTTGTGCTGAAGGAAACCCCTTAGAAGTGGTTT
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TCACATTGATGCTGGTGGAGTCTGGGCCTGAAGAATGACTACAAAGAGAGAGCAAGTCAAGGAGAGCTC
CAGGTTTCAAAGTTAGGCCCAAGGCTTTCTCTCTCAAGATCTTCTCTGGGCCAGAGGATGAAGGCG
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CATTGTGACGCTGGGTGCCTCTATGGGTACCCAGTTACCATGGCAACACAAGGCTGGAGAAAATGGAC



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TGGGCCACCTTCCAGCTGGAGATCACCTTCACTGCCATCACAGACAGTGGCACATATGAGTGCAGAGTAT
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 TTTCTGTTCATCTGTCCCTTCTGCTCCTCCTTCTGCTCATCTCCCTCCTGTCTTATACTGGAAG
 GCCAGGAAGTTGTCAACTGCGTTCCAACACACGGAAGAAAAGCTCTCTGGTGGACTTGAAGAGG
 CTGGAGGTGTACCACAAATAGGAGGGAAGACGAGGAGGAAGATGAAGGCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG235121 representing NM_001256106
 Red=Cloning site Green=Tags(s)

MAGISYVASFFLLLTLSIGQREVTVQKGPLFRAEGYVPSIGCNVTGHQGPSEQHFQWSVYLPNTPTQEV
 QIISTKDAAFSYAVYTTQVRVSGDYVYVERVQGNVLLHISKLQMKDAGEYECHTPNTEKYYGSYSAKTNL
 IVIPDTLSATMSSQTLGKEEGEPLALTCEASKATAQHHTLSVTWYLTQDGGGSQATEIISLSKDFILVPG
 PLYTERFAASDVQLNKLGPSTFRLSIERLQSSDQQLFCEATEWIQDPDETWMFITKKQTDQTTLRIQPA
 VKDFQVNIADSLFAEGKPLELVCLVSSGRDPQLQGIWFFNGTEIAHIDAGGVLGLKNDYKERASQGEL
 QVSKLGPKAFSLKIFSLGPEDEGAYRCVVAEVMKTRTGSWQVLQRKQSPDSHVHLRKAARSVMSTKNK
 QQVWVEGETLAFLECKAGGAESPLSVSWWHIPRDQTQPEFVAGMGQDQIVQLGASYGVPSYHGNTREKMD
 WATFQLEITFTAITDSGTYECRVSEKSRNQARDLSWTQKISVTVKSLSSLQVSLMSRQPQVMLTNTFDL
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 TEEETGVYQCEVEVYDRNSLYNNRPPRASAI SHPLRIAVTLPESKLKVNSRSQVQLSINSNTDIECSIL
 SRNGLQLAIIWYFSPVSTNASWLKILEMDQTNVIKTGDEFHTPQRKQKFHTEKVSQDLFQLHILNVED
 SDRGKYHCAVEEWLLSTNGTWHKLGEKKSGLTELKPKTGSKVRVSKVYWTENVTEHREVAIRCSLESV
 SSATLYSVMWYWNRENSGSKLLVHLQHDGLLEEGEGLRRHLHCYRSSTDFVLKHLQVEMEDAGMYWCR
 VAEWQLHGHPKWINQASDESQRMVLTVPSEPTLPSRICSSAPLLYFLFICPFVLLLLLLISLLCLYWK
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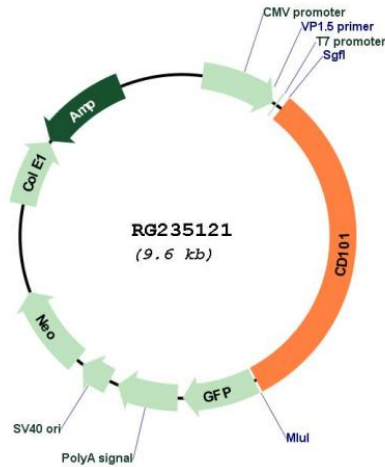
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: NM_001256106

ORF Size: 3063 bp

OTI Disclaimer: 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:	<ol style="list-style-type: none">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:	<u>NM_001256106.2</u> , <u>NP_001243035.1</u>
RefSeq Size:	3551 bp
RefSeq ORF:	3066 bp
Locus ID:	9398
UniProt ID:	<u>Q93033</u>
Cytogenetics:	1p13.1
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]