

Product datasheet for **RG201231**

CD7 (NM_006137) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD7 (NM_006137) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD7
Synonyms:	GP40; LEU-9; Tp40; TP41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201231 representing NM_006137 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGCTCCGAGGCTCCTGCTGCTGCCCTGCTTCTGGCGCTGGCTCGCGGCTGCCTGGGGCC
TGGCTGCCAAGAGGTGCAGCAGTCTCCCACTGCACGACTGTCCCGTGGGAGCCTCCGTCAACATCAC
CTGCTCCACCAGCGGGGCTCGTGGGATCTACCTGAGGACGCTCGGGCCACAGCCCAAGACATCATT
TACTACGAGGACGGGTGGTCCCACTACGGACAGACGGTTCGGGGCCGCATCGACTTCTCAGGGTCCC
AGGACAACCTGACTATCACCATGCACCGCCTGCAGCTGTGGGACTGGCACCTACACCTGCCAGGCCAT
CACGGAGGTCAATGTCTACGGCTCCGGCACCTGGTCTGGTGACAGAGGAACAGTCCCAAGGATGGCAC
AGATGCTCGGACGCCCCACCAAGGGCTCTGCCCTCCCTGCCCCACCGACAGGCTCCGCCCTCCCTGACC
CGCAGACAGCCTCTGCCCTCCCTGACCCGCCAGCAGCCTCTGCCCTCCCTGCGGCCCTGGCGGTGATCTC
CTTCTCCTCGGGCTGGGCTGGGGTGGCGTGTGTGCTGGCGAGGACACAGATAAAGAACTGTGCTCG
TGGCGGGATAAGAATTCGGCGGCATGTGTGGTGTACGAGGACATGTGCACAGCCGCTGCAACACGCTGT
CTCCCCCAACCAAGTACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201231 representing NM_006137
Red=Cloning site Green=Tags(s)

MAGPPRLLLLPLLLALARGLPGALAAQEVQQSPHCTTVPVGASVNICSTSGGLRGIYLRQLGPQPQDII
 YYEDGVVPTTDRRFRGRIDFSGSQDNLITIMHRLQLSDTGTYTCCQAITENVVYSGTLVLVTEEQSQGWH
 RCSDAPPRASALPAPPTGSALPDPQTASALPDPPAASALPAALAVISFLLGLGLGVACVLARTQIKKLC
 WRDKNSAACVVYEDMHSRCNTLSSPNQYQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006137

ORF Size: 720 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:

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_006137.7](#)

RefSeq Size: 1318 bp

RefSeq ORF: 723 bp

Locus ID: 924

UniProt ID: [P09564](#)

Cytogenetics: 17q25.3

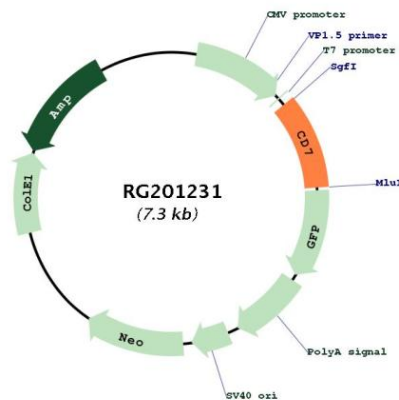
Domains: ig, IGV, IG

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Hematopoietic cell lineage

Gene Summary: This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201231