

Product datasheet for RC220512

CD3G (NM 000073) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CD3G (NM_000073) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: CD3G

Synonyms: CD3-GAMMA; IMD17; T3G

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC220512 representing NM_000073

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAACAGGGGAAGGCCTGCTGCTCTCATCCTGGCTATCATTCTTCTAAGGTACTTTGGCCCAGT
CAATCAAAGGAAACCACTTGGTTAAGGTGTATGACTATCAAGAAGATGGTTCGGTACTTCTGACTTGTGA
TGCAGAAGCCAAAAATATCACATGGTTTAAAGATGGGAAGATGATCGGCTTCCTAACTGAAGATAAAAAA
AAATGGAATCTGGGAAGTAATGCCAAGGACCCTCGAGGGATGTATCAGTGTAAAGGATCACAGAACAAGT
CAAAACCACTCCAAGTGTATTACAGAATGTGTCAGAACTGCATTGAACTAAATGCAGCCACCATATCTGG
CTTTCTCTTTGCTGAAATCGTCAGCATTTTCGTCCTTGCTGTTGGGGTCTACTTCATTGCTGGACAGGAT
GGAGTTCGCCAGTCGAGAGCTTCAGACAAGCAGACTCTGTTGCCCAATGACCAGCTCTACCAGCCCCTCA
AGGATCGAGAAGATGACCAGTACAGCCACCTTCAAGGAAACCAGTTGAGGAGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220512 representing NM_000073

Red=Cloning site Green=Tags(s)

MEQGKGLAVLILAIILLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDGKMIGFLTEDKK KWNLGSNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCIELNAATISGFLFAEIVSIFVLAVGVYFIAGQD

GVRQSRASDKQTLLPNDQLYQPLKDREDDQYSHLQGNQLRRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2560 b07.zip



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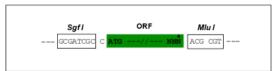


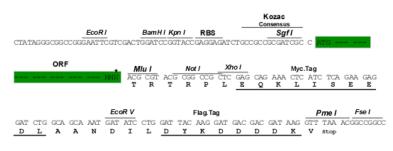
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_000073

ORF Size: 546 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 000073.3</u>

RefSeq Size: 822 bp RefSeq ORF: 549 bp



Locus ID: 917

UniProt ID: P09693

Cytogenetics: 11q23.3

Domains: ITAM, IGc2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Hematopoietic cell lineage, T cell receptor signaling pathway

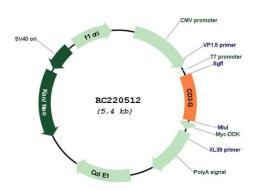
MW: 20.47 kDa

Gene Summary: The protein encoded by this gene is the CD3-gamma polypeptide, which together with CD3-

epsilon, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. Defects in this gene are associated with T cell immunodeficiency. [provided by RefSeq, Jul

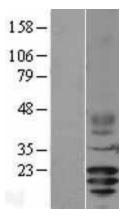
2008]

Product images:



Circular map for RC220512





Western blot validation of overexpression lysate (Cat# [LY400019]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220512 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).