

Product datasheet for RG210010

CD3D (NM_000732) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CD3D (NM_000732) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: CD3D

Synonyms: CD3-DELTA; IMD19; T3D

Mammalian Cell Neo

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG210010 representing NM_000732

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAACATAGCACGTTTCTCTCTGGCCTGGTACTGGCTACCCTTCTCTCGCAAGTGAGCCCCTTCAAGA
TACCTATAGAGGAACTTGAGGACAGAGTGTTTTGTGAATTGCAATACCAGCATCACATGGGTAGAGGGAAC
GGTGGGAACACTGCTCTCAGACATTACAAGACTGGACCTGGGAAAACGCATCCTGGACCCACGAGGAATA
TATAGGTGTAATGGGACAGATATATACAAGGACAAAGAATCTACCGTGCAAGTTCATTATCGAATGTGCC
AGAGCTGTGTGGAGCTGGATCCAGCCACCGTGGCTGGCATCATTGTCACTGATGTCATTGCCACTCTGCT
CCTTGCTTTGGGAGTCTTCTGCTTTGCTGGACATGAGACTGGAAGGCTGTCTGGGGCTGCCGACACACAA
GCTCTGTTGAGGAATGACCAGGTCTATCAGCCCCTCCGAGATCGAGATGATGCTCAGTACAGCCACCTTG

GAGGAAACTGGGCTCGGAACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210010 representing NM_000732

Red=Cloning site Green=Tags(s)

MEHSTFLSGLVLATLLSQVSPFKIPIEELEDRVFVNCNTSITWVEGTVGTLLSDITRLDLGKRILDPRGI YRCNGTDIYKDKESTVQVHYRMCQSCVELDPATVAGIIVTDVIATLLLALGVFCFAGHETGRLSGAADTQ

 ${\tt ALLRNDQVYQPLRDRDDAQYSHLGGNWARNK}$

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

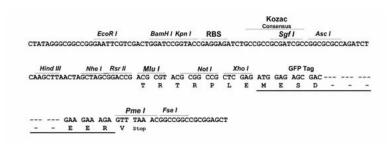
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Cloning Scheme:





ACCN: NM_000732

ORF Size: 513 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.

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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 000732.6</u>

RefSeq Size:1585 bpRefSeq ORF:516 bp

UniProt ID: P04234

Locus ID:



Cytogenetics: 11q23.3

Domains: ITAM

Protein Families: Druggable Genome

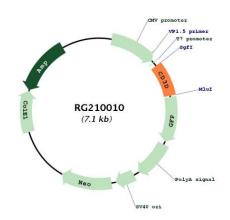
Protein Pathways: Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

Gene Summary: The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD3

complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length natures of their transcripts has yet to

be defined. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RG210010