

## Product datasheet for **SC119732**

### CD3D (NM\_000732) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD3D (NM_000732) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD3D
Synonyms:	CD3-DELTA; IMD19; T3D
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119732 sequence for NM_000732 edited (data generated by NextGen Sequencing)

```
ATGGAACATAGCACGTTTCTCTCTGGCCTGGTACTGGCTACCCTTCTCTCGCAAGTGAGC
CCCTTCAAGATACCTATAGAGGAACTTGAGGACAGAGTGTGGTGAATTGCAATACCAGC
ATCACATGGGTAGAGGGAACGGTGGGAACACTGCTCTCAGACATTACAAGACTGGACCTG
GGAAAACGCATCCTGGACCCACGAGGAATATATAGGTGTAATGGGACAGATATACAAG
GACAAAGAATCTACCGTCAAGTTCATTATCGAATGTGCCAGAGCTGTGTGGAGCTGGAT
CCAGCCACCGTGGCTGGCATCATTGTCCTGATGTCATTGCCACTCTGCTCCTTGCTTTG
GGAGTCTTCTGCTTTGCTGGACATGAGACTGGAAGGCTGTCTGGGGCTGCCGACACAAA
GCTCTGTTGAGGAATGACCAGGTCTATCAGCCCCTCCGAGATCGAGATGATGCTCAGTAC
AGCCACCTTGAGGAACTGGGCTCGGAACAAGTGA
```

Clone variation with respect to NM\_000732.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000732 unedited  
 NGGGGCGTTCCAAATATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGNAC  
 TAGGGGAGGGCAGCTCTCACCCAGGCTGATAGTTCGGTGACCTGGCTTTATCTACTGGAT  
 GAGTTCGCTGGGAGATGGAACATAGCACGTTTCTCTCTGGCCTGGTACTGGCTACCCTT  
 CTCTCGCAAGTGAGCCCTTCAAGATACCTATAGAGGAACTTGAGGACAGAGTGTGGTG  
 AATTGCAATACCAGCATCACATGGGTAGAGGGAACGGTGGGAACACTGCTCTCAGACATT  
 ACAAGACTGGACCTGGGAAAACGCATCCTGGACCCACGAGGAATATATAGGTGTAATGGG  
 ACAGATATATACAAGGACAAAGAATCTACCGTGCAAGTTTATTATCGAATGTGCCAGAGC  
 TGTGTGGAGCTGGATCCAGCCACCGTGGCTGGCATCATTGTCAGTGTGATTGCCACT  
 CTGCTCCTTGCTTTGGGAGTCTTCTGCTTTGCTGGACATGAGACTGGAAGGCTGTCTGGG  
 GCTGCCGACACACAAGCTCTGTTGAGGAATGACCAGGTCTATCAGCCCCTCCGAGATCGA  
 GATGATGCTCAGTACAGCCACCTGGAGGAACTGGGCTCGGAACAAGTGAACCTGAGAC  
 TGGTGGCTTCTAGAAGCAGCCATTACCAACTGTACCTTCCCTTCTTGCTCAGCCAATAAA  
 TATATCCTCTTTCACTCAGAAAAAAAAAAAAAAAAAAAAAAAAACTCGACTTAGATTGCGG  
 CCGCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAG  
 TGCTCTCCTGGCCCTGGNGAGTGCACCTCCAGTGCCACCAGCCTGTCTAATNAATAAG  
 T

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000732 unedited  
 NGGTACATCTATGNACCGCGCCGAATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTT  
 TCTGAGTGAAAGAGGATATATTTATTGGCTGAGCAAGAAGGAAGGTACAGTTGGAATG  
 GCTGCTTCTAGAAGCCACCAGTCTCAGGTTCACTTGTCCGAGCCAGTTTCTCCAAGG  
 TGCTGTACTGAGCATCATCTCGATCTCGGAGGGGCTGATAGACCTGGTCAATCCTCAAC  
 AGAGCTTGTGTGTCGGCAGCCCCAGACAGCCTTCCAGTCTCATGTCCAGCAAAGCAGAAG  
 ACTCCAAAGCAAGGAGCAGAGTGGCAATGACATCAGTGACAATGATGCCAGCCACGGTG  
 GCTGGATCCAGCTCCACACAGCTCTGGCACATTCGATAATGAACTGCACGGTAGATTCT  
 TTGTCCTTGATATATCTGTCCCATTACACCTATATTCCTCGTGGGTCCAGGATGCGT  
 TTTCCAGGTCCAGTCTTGAATGTCTGAGAGCAGTGTCCACCCTTCCCTCTACCCAT  
 GTGATGCTGGTATTGCAATTCACAAACTCTGTCTCAAGTTCTCTATAGGTATCTTG  
 GAGGGGCTCACTTGCAGAGAAAAGTACCAGTCCCAGGCCAGAGAAAACGTGCTATGTT  
 CCATCTCCCAACGGAACATCCAGTAGATAAAGCCAGTCCCGACTATCAGCCTGGGG  
 GAGAAGTGTCTCCCTAACTCTGGTGCCGAATTCTCGGCCCGCCCTATGTGGGGCGTA  
 TTACAAAATTTTGGGGTTACTAAACGAACTTTGTTTTATAAAACCTCCACCTACACC  
 CCTCCCGCCCTTTTGTACCAGGGGGGGGTTTTACCACATTTTGGAAAGCCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000732

**Insert Size:**

800 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000732.3</a> , <a href="#">NP_000723.1</a>
<b>RefSeq Size:</b>	1585 bp
<b>RefSeq ORF:</b>	516 bp
<b>Locus ID:</b>	915
<b>UniProt ID:</b>	<a href="#">P04234</a>
<b>Cytogenetics:</b>	11q23.3
<b>Domains:</b>	ITAM
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A).</p>