

Product datasheet for **SC128125**

CD3E (NM_000733) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD3E (NM_000733) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD3E
Synonyms:	IMD18; T3E; TCRE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128125 sequence for NM_000733 edited (data generated by NextGen Sequencing)

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ATGCAGTCGGGCACTCACTGGAGAGTTCTGGGCCTCTGCCTCTTATCAGTTGGCGTTTGG
GGGCAAGATGGTAATGAAGAAATGGGTGGTATTACACAGACACCATATAAAGTCTCCATC
TCTGGAACCACAGTAATATTGACATGCCCTCAGTATCCTGGATCTGAAATACTATGGCAA
CACAATGATAAAAACATAGGCGGTGATGAGGATGATAAAAACATAGGCAGTGATGAGGAT
CACCTGTCACTGAAGGAATTTTCAGAATTGGAGCAAAGTGTTATTATGTCTGCTACCCC
AGAGGAAGCAAACCAGAAGATGCGAACTTTTATCTCTACCTGAGGGCAAGAGTGTGTGAG
AACTGCATGGAGATGGATGTGATGTCGGTGGCCACAATTGTCATAGTGGACATCTGCATC
ACTGGGGGCTTGCTGCTGCTGGTTTACTACTGGAGCAAGAATAGAAAGGCCAAGGCCAAG
CCTGTGACACGAGGAGCGGGTGTGGCGGCAGGCAAAGGGGACAAAACAAGGAGAGGCCA
CCACCTGTTCCCAACCCAGACTATGAGCCCATCCGAAAGGCCAGCGGGACCTGTATTCT
GGCCTGAATCAGAGACGCATCTGA
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Clone variation with respect to NM_000733.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000733 unedited GTAACGTCAAATTTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACCAGAGTAAG TCTGCTGGCCTCCGCCATCTTAGTAAAGTAACAGTCCCATGAAACAAAGATGCAGTCGGG CACTCACTGGAGAGTTCTGGGCCCTGCTCTTATCAGTTGGCGTTTGGGGCAAGATGG TAATGAAGAAATGGGTGGTATTACACAGACACCATATAAAGTCTCCATCTCTGGAACCAC AGTAATATTGACATGCCCTCAGTATCCTGGATCTGAAATACTATGGCAACACAATGATAA AAACATAGGCGGTGATGAGGATGATAAAAACATAGGCAGTGATGAGGATCACCTGTCAC GAAGGAATTTTCAGAATTGGAGCAAAGTGGTTATTATGTCTGCTACCCAGAGGAAGCAA ACCAGAAGATGCGAACTTTTATCTCTACCTGAGGGCAAGAGTGTGTGAGAACTGCATGGA GATGGATGTGATGCGTGGCCACAATTGTCATAGTGGACATCTGCATCACTGGGGGCTT GCTGCTGCTGGTTTACTACTGGAGCAAGAATAGAAAGGCCAAGGCCAAGCCTGTGACACG AGGAGCGGGTGTGGCGGAGGCAAAGGGGACAAAACAAGGAGAGGCCACCACCTGTTCC CAACCCAGACTATGAGCCATCCGAAAGGCCAGCGGGACCTGTATTCTGGCCTGAATCA NAGACGCATCTGACCCTCTGGAGAACACTGCCTCCGCTGGCCCCAGTCTNCTTTCAGT CCCCTGCGACTCCCTGTTTCTGGGCTAATCTTGGACCCACGANAGAGGATCCGTTCC TCACCCATGTTGAACCTCGGCCCTCCAGCCTGATCCCCGCTCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_000733
Insert Size:	1400 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	NM_000733.2 , NP_000724.1
RefSeq Size:	1377 bp
RefSeq ORF:	624 bp

Locus ID:	916
UniProt ID:	P07766
Cytogenetics:	11q23.3
Domains:	ITAM, IGc2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -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. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women. [provided by RefSeq, Jul 2008]</p>