

Product datasheet for **RC206562**

CD247 (NM_000734) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD247 (NM_000734) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD247
Synonyms: CD3-ZETA; CD3H; CD3Q; CD3Z; IMD25; T3Z; TCRZ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206562 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGAAGGCGCTTTTCACCGCGCCATCCTGCAGGCACAGTTGCCGATTACAGAGGCACAGAGCT
 TTGGCCTGCTGGATCCCAAACCTGCTACCTGCTGGATGGAATCCTCTTCATCTATGGTGTCACTCTCAC
 TGCCTTGTCTGAGAGTGAAGTTCAGCAGGAGCGCAGACGCCCGCGTACCAGCAGGGCCAGAACCAG
 CTCTATAACGAGCTCAATCTAGGACGAAGAGAGGAGTACGATGTTTTGGACAAGAGAGCTGGCCGGGACC
 CTGAGATGGGGGAAAGCCGAGAGAAGGAAGAACCCTCAGGAAGCCTGTACAATGAATGCAGAAAGA
 TAAGATGGCGGAGGCCTACAGTGAAGATTGGGATGAAAGGCGAGCGCCGGAGGGGCAAGGGGCACGATGGC
 CTTTACCAGGTCTCAGTACAGCCACCAAGGACACCTACGACGCCCTTACATGCAGGCCCTGCCCCCTC
 GC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206562 protein sequence
 Red=Cloning site Green=Tags(s)

MKWKALFTAAILQAQLPITEAQSFGLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSADAPAYQQGQNQ
 LYNELNLRREEYDVLKRRGRDPEMGGKQRRKNPQEGLYNELQDKMAEAYSEIGMKGERRRGKHGHDG
 LYQLSTATKDTYDALHMQLPPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

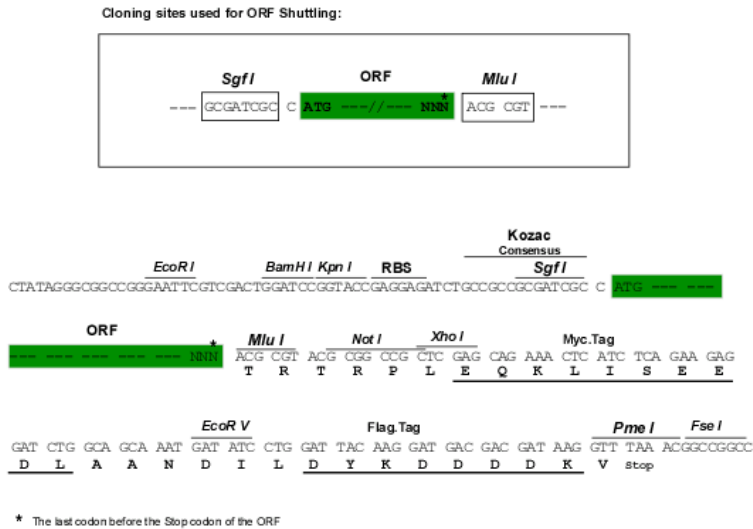
Chromatograms: https://cdn.origene.com/chromatograms/mk6328_a03.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000734

ORF Size: 492 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_000734.4](#)

RefSeq Size: 1687 bp

RefSeq ORF: 492 bp

Locus ID: 919

UniProt ID: [P20963](#)

Cytogenetics: 1q24.2

Domains: ITAM

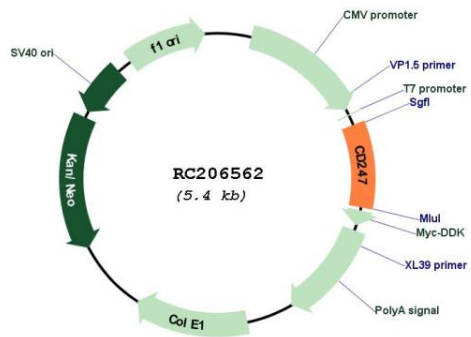
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway

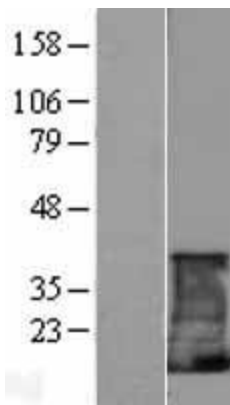
MW: 18.7 kDa

Gene Summary: The protein encoded by this gene is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

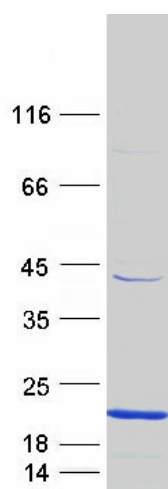
Product images:



Circular map for RC206562



Western blot validation of overexpression lysate (Cat# [LY424538]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206562 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD247 protein (Cat# [TP306562]). The protein was produced from HEK293T cells transfected with CD247 cDNA clone (Cat# RC206562) using MegaTran 2.0 (Cat# [TT210002]).