

Product datasheet for RC214725

CD247 (NM_198053) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD247 (NM_198053) 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: >RC214725 representing NM_198053
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGAAGGCGCTTTTCACCGGCCATCCTGCAGGCACAGTTGCCGATTACAGAGGCACAGAGCT
TTGGCCTGCTGGATCCCAAACCTGCTACCTGCTGGATGGAATCCTCTTCATCTATGGTGTCACTTCAC
TGCCTTGTTCCTGAGAGTGAAGTTCAGCAGGAGCGCAGACGCCCCGCTACCAGCAGGGCCAGAACCAG
CTCTATAACGAGCTCAATCTAGGACGAAGAGAGGAGTACGATGTTTTGGACAAGAGACGTGGCCGGGACC
CTGAGATGGGGGAAAGCCGAGAAGGAAGAACCCTCAGGAAGGCCTGTACAATGAACTGCAGAAAGATAA
GATGGCGGAGGCCTACAGTGAGATTGGGATGAAAGGCGAGCGCCGAGGGGCAAGGGGCACGATGGCCTT
TACCAGGGTCTCAGTACAGCCACCAAGGACACCTACGACGCCCTTACATGCAGGCCCTGCCCCCTCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214725 representing NM_198053
Red=Cloning site Green=Tags(s)
MKWKALFTAAAILQAQLPITEAQSFLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSADAPAYQQGQNQ
LYNELNLRREEYDVLDKRRGRDPEMGGKPRRKNPQEGLYNELQKDKMAEAYSEIGMKGERRRGKGDGL
YQGLSTATKDTYDALHMQUALPPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6117_e12.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198053

ORF Size: 489 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.

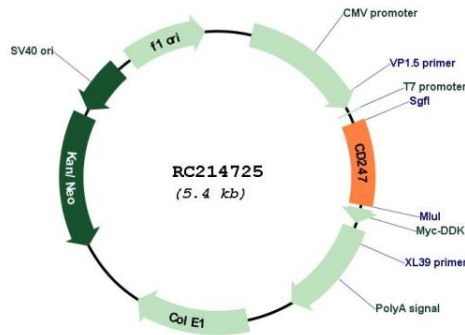
RefSeq: [NM_198053.3](#)

RefSeq Size: 1677 bp

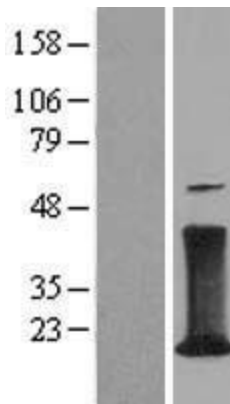
RefSeq ORF: 495 bp

Locus ID: 919
UniProt ID: [P20963](#)
Cytogenetics: 1q24.2
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway
MW: 16.3 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]

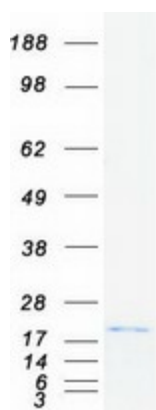
Product images:



Circular map for RC214725



Western blot validation of overexpression lysate (Cat# [LY403667]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214725 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD247 protein (Cat# [TP314725]). The protein was produced from HEK293T cells transfected with CD247 cDNA clone (Cat# RC214725) using MegaTran 2.0 (Cat# [TT210002]).