

Product datasheet for **RG214725**

CD247 (NM_198053) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD247 (NM_198053) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD247
Synonyms: CD3-ZETA; CD3H; CD3Q; CD3Z; IMD25; T3Z; TCRZ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214725 representing NM_198053
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGAAGGCGCTTTTACCAGCGGCCATCCTGCAGGCACAGTTGCCGATTACAGAGGCACAGAGCT
TTGGCCTGCTGGATCCCAAACCTGCTACCTGCTGGATGGAATCCTCTTCATCTATGGTGTCACTTCTCAC
TGCCTTGTCTGAGAGTGAAGTTCAGCAGGAGCGCAGACGCCCGCGTACCAGCAGGGCCAGAACCAG
CTCTATAACGAGCTCAATCTAGGACGAAGAGAGGAGTACGATGTTTTGGACAAGAGACGTGGCCGGGACC
CTGAGATGGGGGAAAGCCGAGAGAAGGAAGAACCCTCAGGAAGGCCTGTACAATGAAGTGCAGAAAGA
TAAGATGGCGGAGGCCTACAGTGAAGTGGGATGAAAGGCGAGCGCCGGAGGGGCAAGGGGCACGATGGC
CTTTACCAGGTCTCAGTACAGCCACCAAGGACACCTACGACGCCCTTACATGCAGGCCCTGCCCTC
GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214725 representing NM_198053
Red=Cloning site Green=Tags(s)

MKWKALFTAAILQAQLPITEAQSFGLLPKLCYLLDGILFIYGVILTALFLRVKFSRSADAPAYQQGQNG
LYNELNLGRREEYDVLDKRRGRDPEMGGKPQRRKNPQEGLYNELQKDKMAEAYSEIGMKGERRRGKGDH
LYQGLSTATKDTYDALHMQALPPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_198053

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_198053.3](#)

RefSeq Size: 1677 bp

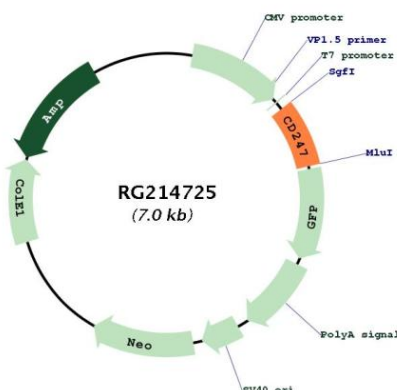
RefSeq ORF: 495 bp

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
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 RG214725