

Product datasheet for **MR224619**

Cd247 (NM_031162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd247 (NM_031162) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd247
Synonyms:	4930549J05Rik; A430104F18Rik; AW552088; Cd3; Cd3-eta; Cd3-zeta; Cd3h; Cd3z; Cd3zeta; T3z; Tcrk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224619 representing NM_031162 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGAAAGTGTCTGTTCTCGCCTGCATCCTCCACGTGCGGTTCCAGGAGCAGAGGCACAGAGCT
TTGGTCTGCTGGATCCCAAACCTGCTACTTGCTAGATGGAATCCTTTCATCTACGGAGTCATCATCAC
AGCCCTGTACCTGAGAGCAAAATTCAGCAGGAGTGCAGAGACTGCTGCCAACCTGCAGGACCCCAACCAG
CTCTACAATGAGCTCAATCTAGGGCGAAGAGAGGAATATGACGTCTTGGAGAAGAAGCGGGCTCGGGATC
CAGAGATGGGAGGCAAACAGCAGAGGAGGAGGAACCCCAAGGCGTATACAATGCACTGCAGAAAGA
CAAGATGGCAGAAGCCTACAGTGAGATCGGCACAAAAGGCGAGAGCGGAGAGGCAAGGGGCACGATGCC
CTTTACCAGGACAGCCACTTCCAAGCAGTGCAGTTCGGGAACAGAAGAGAGAGAAGGTTCAGAACTCA
CAAGGACCTTGGGTTAAGAGCCCGCCCAAGGTGAAAGCACCCAGCAGAGTAGCCAATCCTGTGCCAG
CGTCTTACGATCCCCACTCTGTGGAGTCCATGGCCACCCAGTAGCAGCTCCAGCTC

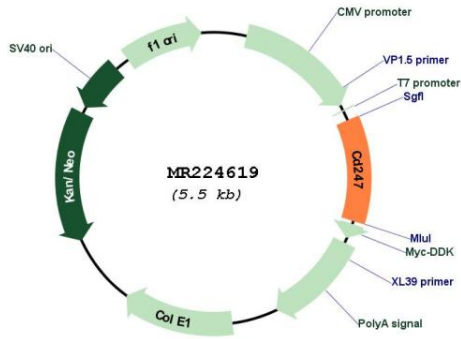
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_031162.4 , NP_112439.1
RefSeq Size:	1358 bp
RefSeq ORF:	621 bp
Locus ID:	12503
UniProt ID:	P24161
Cytogenetics:	1 73.14 cM
MW:	23.8 kDa
Gene Summary:	<p>Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways. CD3Z ITAMs phosphorylation creates multiple docking sites for the protein kinase ZAP70 leading to ZAP70 phosphorylation and its conversion into a catalytically active enzyme. Plays an important role in intrathymic T-cell differentiation. Additionally, participates in the activity-dependent synapse formation of retinal ganglion cells (RGCs) in both the retina and dorsal lateral geniculate nucleus (dLGN). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR224619