

## Product datasheet for **RR210599**

### **Cd4 (NM\_012705) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cd4 (NM_012705) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd4
Synonyms:	p55; W3/25
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR210599 representing NM\_012705  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGCCGAGGCTTCTTTTCAGGCACTTGTCTGCCGCTGTCTCTCTGCAGCTGTCAAACCTCTAGTTG  
 TCACCCAAGGAAAGACCGTGGTCTGGGAAGGAAGGGGTTTCAGCAGAACTGCCCTGTGAAAGTACCTC  
 GAGGAGGAGTGCATCCTTCGCGTGGAAAGTCTCTGACCAAAAGACAATTCTGGGATATAAGAACAAGTTA  
 TTGATTAAGGTTCACTTGTAGCTGTATAGTCGTTTTGATTCCAGAAAAATGCATGGGAGAGAGGATCAT  
 TTCCCCTCATCATCAATAAACTTAGGATGGAGGACTCTCAGACTTATGTCTGCGAGCTGGAGAACAAGAA  
 AGAGGAGGTGGAGTTGTGGGTCTTCAGAGTGACCTTCAATCCGGTACCAGACTGTTGCAGGGGCAGAGC  
 CTGACCCTGATCTGGATAGCAACCCTAAGGTCTCTGACCCCGATAGAGTGCAAACACAAAAGCAGTA  
 ACATTGTCAAGGACTCCAAGCTTCTCCACGCACAGCCTAAGGATTCAGGACAGTGGCATCTGAACTG  
 CACCGTGACCCTGAACCAGAAGAAGCACTATTTGACATGAAACTCTCAGTGTGGCTTTGCGAGCACA  
 TCCATCACGGCCTATAAGAGTGAGGGGAGTACGCGGAGTTCTCCTTCCCACTCAACCTTGAGAGGAAA  
 GCCTGCAGGGAGAGTTGAGATGGAAGGCAGAGAAGGCTCCTTCTTCCAGTCTGGATCACCTTCTCCCT  
 AAAGAACCAAAAGGTGTCTGTGCAGAAGTCTACTAGCAACCCCAAGTTCAGCTGTCCGAAACGCTCCCA  
 CTCACCTTCAGATACCCAGGTCTCCCTTTCAGTTTGTGGTCTGGCAACCTGACCCTGACTCTGGACA  
 GAGGGATACTGTATCAGGAAGTGAACCTGGTGGTGTGAAAGTGACTCAGCCCGACAGCAACACTTTGAC  
 CTGTGAGGTGATGGGACCCACCTCACCAAGATGAGACTGATCTTGAAGCAGGAGAATCAGGAGGCCAGG  
 GTCTCCAGGCAGGAGAAAGTGAATCAAGTGACTCCAAGTCCAGGTTTTATCCAAAGGGTTGAACCAGCAATGTTCT  
 AAGGTGAAGAGTCAAGATGGACTCCAAGTCCAGGTTTTATCCAAAGGGTTGAACCAGCAATGTTCT  
 GGCTGTCTGTGGGAGCGCCTTCAGCTTTCTGGTTTTTCACGGGGCTCTGCATCCTATTCTGTGCAGG  
 TGCCGGCACCAACAGCGCCAGGCAGCACGGATGTCTCAGATCAAGAGGCTTCTCAGTGAGAGAAGACTT  
 GCCAGTGTCTCCACCGGATGCAGAAAAGCCACAATCTCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210599 representing NM\_012705  
 Red=Cloning site Green=Tags(s)

MCRGFSFRHLLPLLLLQLSKLLVVTQGKTVVLGKEGGS AELPCESTRRSASF AWKSSDQKILGYKNKL  
 LIKGSLELYSRFDSRKN AWERGSFPLIINKLRMEDSQTYVCELENKKEEVELWVFRVTFNPGTRLLQGQS  
 LTLILDSNPKVSDPPIECKHKSSNIVKDSKAFSTHSLRIQDSGIWNCTVTLNQQKHSFDMKLSVLGFAST  
 SITAYKSEGESAIEFSFPLNLGEE SLQGELRWKA EKAPSSQSWITFSLKNQKVSQKSTSNPKFQLSETLP  
 LTLQIPQVSLQFAGSGLTLTLDRGILYQEVNLVVMKVTQPSNLTCEVMGPTSPKMRLILKQENQEAR  
 VSRQEKVIQVQAPEAGVWQCLLSEGEEVKMDSKIQVLSKGLNQT MFLAVVLGSAFSFLVFTGLCILFCVR  
 CRHQQRQAARMSQIKRLLSEKKTQC SHRMQKSHNLI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

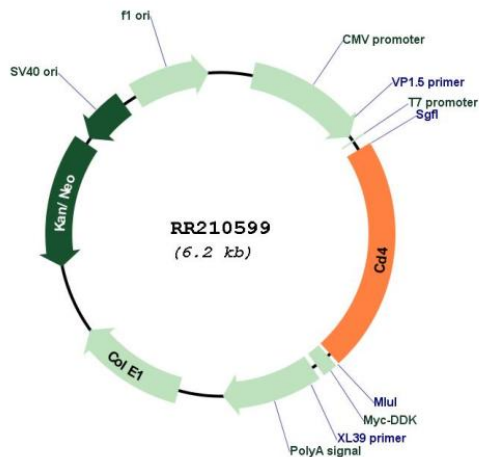
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012705

**ORF Size:** 1371 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\\_012705.1](#), [NP\\_036837.1](#)

**RefSeq Size:** 1749 bp

**RefSeq ORF:** 1374 bp

**Locus ID:** 24932

**UniProt ID:** [P05540](#)

**Cytogenetics:** 4q42

**MW:** 51.4 kDa

**Gene Summary:** MHC class II binding protein that may be a candidate gene for collagen-induced arthritis; human CD4 is a receptor required for HIV infection [RGD, Feb 2006]