

## Product datasheet for RR210923

### Cd2 (NM\_012830) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd2 (NM\_012830) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cd2  
**Synonyms:** CD2R; LFA-2; LFA2; OX-34; OX34  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210923 representing NM\_012830  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGATGTAATTCCTAGGGAGTTTCTTCTGCTCTTCAGCCTGTCCAGCAAAGGAGCAGACTGCAGAG  
 ACAGTGGGACCGTCTGGGGTGCCTGGGTGATGGCATCAACCTGAACATCCCTAACTTTCAAATGACTGA  
 TGATATTGATGAGGTGCGATGGGAGAGGGGAGCACCCTGGTTGCCGAGTTTAAAAGGAAGATGAAGCCT  
 TTTTTGAAATCGGGAGCATTGAGATCTTAGCAAATGGAGACTTGAAGATAAAGAATCTGACAAGAGATG  
 ACAGTGGCACCTATAATGTAACGGTATACAGCACAAATGGGACACGTATCCTGGACAAGGCACTGGACTT  
 GAGGATTCTAGAGATGGTCTCAAAGCCGATGATCTACTGGGAGTGCAGCAACGCAACCCTGACCTGTGAG  
 GTCTTGGAAGGAACAGATGTTGAACTAAAGCTGTACCAAGGAAAGGAGCATCTCAGGAGCCTCCGTCAGA  
 AGACCATGAGTTACCAGTGGACCAACCTGAGAGCACCGTTAAGTGAAGGCGGTAAACAGGGTCAGCCA  
 GGAGTCTGAGATGGAAGTTGTCAACTGTCCAGAGAAAGGTCTGCCCTCTATCTCATAGTGGGGTCACT  
 GCAGGAGGACTCCTCTTGGTGTCTTTGGGGCGCTGTTTATTTCTGTATCTGCAAGAGGAAAAACGGA  
 ACAGGAGGAGAAAAGGTGAAGAGCTGGAGATAAAAGCTTCCAGAATGAGCACTGTGGAAGGGGACCCAA  
 GCCACACTCAACCCAGGCTCAGCACCAAGCATCACAGAATCCAGTGGCTTCCAAGCTCCTCCTCACCT  
 GGCCATCATCTCCAGACCTGGCCATCGTCCCCTGCCTCCAAGCCACCGTAACCGTGAGCACCAAGCCGA  
 AGAAGAGACCTCCTCCATCAGGCACACAGGTTACCAGCAGAAAGGCCCTCCTTTGCCAGACCCCGAGT  
 TCAGCCAAAGCCTCCCTGTGGGAGTGGAGATGTTTCGTTGCCACCCCTAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210923 representing NM\_012830  
 Red=Cloning site Green=Tags(s)

MRCKFLGSFFLLFSLSSKGADCRDSGTVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKMKP  
 FLKSGAFEILANGDLKIKNLTRDSDGTYNVTVYSTNGTRILDKALDLRILEMVSKPMIYWECSNATLTCE  
 VLEGTDVLEKLYQGKEHLRSLRQKTMSTYQWTNLRAPFKCKAVNRVTSQESEMENVNCPKGLPLYLIVGVS  
 AGLLLLVFFGALFIFCICKRKKRNRRRKGEELIKASRMSTVERGPKPHSTQASAPASQNPVASQAPPPP  
 GHHLQTPGHRPLPPSHRNREHQPKRPPPSGTQVHQKQKGPPLRPRVQPKPPCGSGDVSLPPPN

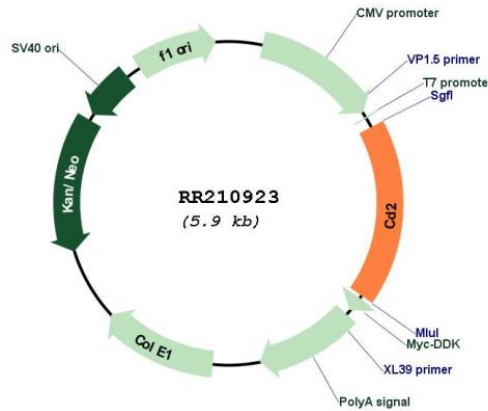
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012830

**ORF Size:** 1032 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012830.1</a> , <a href="#">NP_036962.1</a>
<b>RefSeq Size:</b>	1168 bp
<b>RefSeq ORF:</b>	1035 bp
<b>Locus ID:</b>	497761
<b>UniProt ID:</b>	<a href="#">P08921</a>
<b>Cytogenetics:</b>	2q34
<b>MW:</b>	38.4 kDa
<b>Gene Summary:</b>	cell surface antigen involved in T lymphocyte activation and proliferation; interacts with CD5 [RGD, Feb 2006]