

## Product datasheet for **RR209562**

### Cd276 (NM\_182824) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd276 (NM_182824) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd276
Synonyms:	B7h3; B7RP-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209562 representing NM_182824 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTTCGAGGATGGGGTGGCCCCAGTGTGGGTGTGTCTATGGGCACGGCACTGGGAGTGTGTGCCTCT  
GCCTTACAGGAGCTGTGGAGGTCCAAGTCTCTGAAGACCCTGTGGTGGCCCTAGTGGATACGGATGCCAC  
CCTACGCTGCTCCTTCTCCCCAGAGCCTGGCTTCAGCCTGAGACAGCTCAACCTCATCTGGCAGCTGACA  
GACACCAAACAGCTGGTGCACAGCTTCACTGAGGGCCGGGACCAAGGCAGTGCCTATGCCAACCGCACGG  
CGCTCTTCCCTGACTTGTGGTGCAGGGCAATGCATCCCTGAGGCTGCAGCGTGTCCGAGTAACCGACGA  
GGGCAGCTACACCTGCTTTGTGAGCATCCAGGACTTTGACAGCGCTGCTGTTAGCCTGCAGGTGGCCGCC  
CCCTACTCAAAGCCCAGCATGACCCTGGAGCCCAACAAGGACCTGCGTCCAGGGGACATGGTGACCATCA  
CGTGCTCCAGCTACCAGGGCTATCCCGAGGCTGAGGTGTCTGGAAGGACGGACAGGGATTGCCCTTGAC  
TGGCAATGTGACCACATCCCAGATGGCCAACGAGCGGGCCCTGTTTCGATGTTACAGTGTGCTGAGGGTG  
GTGCTGGGTGCTAATGGCACCTACAGCTGCCTGGTCCGCAACCCGGTGTGCAGCAAGATGCTCATGGCT  
CGGTACCATCACAGGGCAGCCATGACATCCCCCTGAGGCTCATGGGTGACTGTGGGGCTCTCTGT  
CTGTCTTGATGACTGCTGGTGGCCCTGGCCTTCGTGTGCTGGAGAAAGATCAAGCAGAGCTGTGAAGAG  
GAGAATGCAGGTGCTGAGGACCAGGATGGGGATGGAGAAGGATCCAAGACAGCTTTCGGCTCTGAAAC  
ACTCTGAAAACAAAGAAGATGACGGACAAGAAATAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209562 representing NM\_182824  
Red=Cloning site Green=Tags(s)

MLRGWGGPSVGVSMGTALGVLCLCLTGAVEVQVSEDPVVALVDTDATLRCSFSPEPGFSLRQLNLIWQLT  
 DTKQLVHSFTEGRDQGSAYANRTALFPDLLVQGNASLRQRVVTDEGSYTCFVSIQDFDAAVSLQVAA  
 PYSKPSMTLEPNKDLRPGDMVTITCSSYQGYPEAEVFWKDGQGLPLTGNVTTSQMANERGLFDVHSVLRV  
 VLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWTVVGLSVCLVILLVALAFVCWRKIKQSC  
 ENAGAEDQDGDGEGSKTALRPLKHSENKEDDGGQEIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

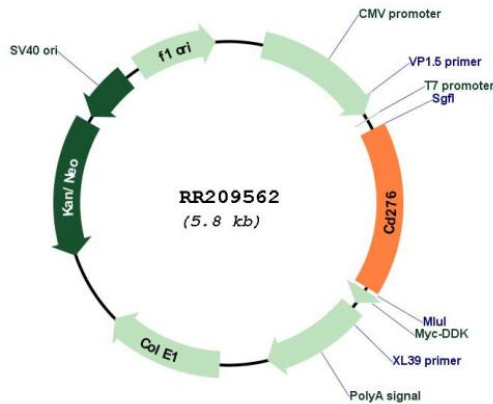
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_182824

**ORF Size:** 948 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_182824.2](#), [NP\\_877976.1](#)

**RefSeq Size:** 3125 bp

**RefSeq ORF:** 951 bp

**Locus ID:** 315716

**UniProt ID:** [Q7TPB4](#)

**Cytogenetics:** 8q24

**MW:** 34.1 kDa

**Gene Summary:** negative regulator of T cell proliferation [RGD, Feb 2006]