

## Product datasheet for **MR202454**

### Cd28 (NM\_007642) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Cd28 (NM\_007642) Mouse Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Cd28  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >MR202454 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACACTCAGGCTGCTGTTCTTGGCTCTCAACTTCTTCTCAGTTCAAGTAACAGAAAACAAGATTTTGG  
TAAAGCAGTCGCCCTGCTTGTGGTAGATAGCAACGAGGTCAGCCTCAGCTGCAGGTATTCCTACAACCT  
TCTCGCAAAGGAATTCGGGCATCCCTGTACAAGGCGTGAACAGCGACGTGGAAGTCTGTGTCGGGAAT  
GGGAATTTTACCTATCAGCCCCAGTTTCGCTCGAATGCCGAGTTCAACTGCGACGGGGATTTCGACAACG  
AAACAGTGACGTTCCGTCTCTGGAATCTGCACGTCAATCACACAGATATTTACTTCTGCAAAATTGAGTT  
CATGTACCCTCCGCTTACCTAGACAACGAGAGGAGCAATGGAATATTATTCACATAAAAGAGAAACAT  
CTTTGTCACTACTCAGTCATCTCCTAAGCTGTTTTGGGCACTGGTCGTGGTTGCTGGAGTCTGTTTTGTT  
ATGGCTTGCTAGTGACAGTGGCTCTTTGTGTTATCTGGACAAATAGTAGAAGGAACAGACTCCTTCAAAG  
TGACTACATGAACATGACTCCCCGAGGCCTGGGCTCACTCGAAAGCCTTACCAGCCCTACGCCCTGCC  
AGAGACTTTCAGCGTACCGCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202454 protein sequence  
Red=Cloning site Green=Tags(s)

MTLRLLFLALNFFSVQVTENKILVKQSPLLVDNSNEVSLSCRYSYNLLAKEFRASLYKGVNSDVEVCVGN  
GNFTYQPQFRSNAEFNCDGDFDNETVTFRLWNLHVNHDIYFCKIEFMYPPPYLDNERSNGTIIHIKEKH  
LCHTQSSPKLFWALVVVAGVLFYGLLVTVALCVIWTNSRRNRLLQSDYMNMTPRRPGLTRKPYQPYAPA  
RDFAAAYRP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007642

**ORF Size:** 657 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.

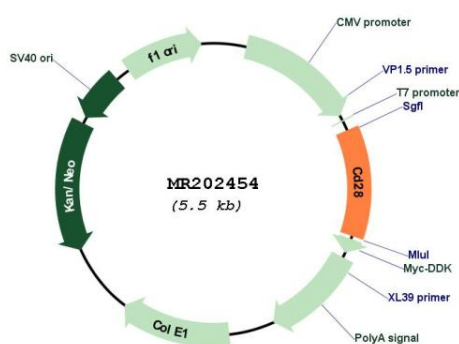
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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:	<u>NM_007642.4</u>
RefSeq Size:	4317 bp
RefSeq ORF:	657 bp
Locus ID:	12487
UniProt ID:	<u>P31041</u>
Cytogenetics:	1 30.52 cM
MW:	25.2 kDa
Gene Summary:	Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. Enhances the production of IL4 and IL10 in T-cells in conjunction with TCR/CD3 ligation and CD40L costimulation.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR202454