

Product datasheet for **RR208261**

Cd36 (NM_031561) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd36 (NM_031561) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd36
Synonyms:	Fat; RGD1562323
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208261 representing NM_031561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTGCGATCGAACTGTGGGCTCATTACTGGAGCCGTTATTGGTGTCTCCTGGCTGTGTTTGGAG
 GCATTCTCATGCCGTTGGAGACCTACTCATTGAGAAGACAATCAAAGGGAAGTTGTCCTGAAGAAGG
 AACCATGCTTTCAAAAACGGGTGAAAACGGGCACCACTGTGTACAGACAGTTTTGGATCTTTGACGTG
 CAAAACCCAGAGGAAGTGGCAAAGAATAGCAGCAAGATCAAGGTTAAACAGAGAGGTCCTTACACATACA
 GAGTTCGTTATTTAGCCAAGGAAAATAAATCAGGACCCCAAGGACAGCACTGTCTCTTTGTACAACC
 CAATGGAGCCATCTTTGAGCCTTCACTGTCTGTTGGAACAGAGAATGACAACTTCACAGTTCTCAATCTG
 GCTGTGGCAGCTGCACCACATATCTACACAACTCATTGTTCAAGGTGTGCTCAACAGCCTTATCAAAA
 AGTCCAAGTCTTCTATGTTCCAAACACGAAGTTTGAAGGAAGTCTGTGGGGTTACAAAGATCCATTCTT
 GAGTTTGGTTCCATATCCTATAAGTACCACAGTTGGTGTGTTTTATCCTTACAATAACACTGTAGATGGA
 GTTTATAAAGTTTTCAATGGAAAGGATAACATAAGCAAGTTGCCATAATTGATACCTATAAAGGAAAA
 GGAATTTGTCCTATTGGGAAAGTTATTGCGACATGATTAATGGCAGATGCAGCCTCCTTTCCACCTTT
 TGTGAGAAGTCTCGAACACTGAGGTTCTTTCTCTGACATTTGCAGGTCCATCTATGCTGTGTTTGG
 TCTGAAGTGAACCTAAAGGAATCCCGGTGTACAGATTTGTTCTTCCAGCCAACGCTTTGCCTCCCCAC
 TCCAGAACCCAGACAACCACTGTTTCTGCACTGAAAAAGTAATCTCAAATAACTGTACGTCGTATGGTGT
 GCTGGACATTGGCAAGTGCAAAGAAGGAAAGCCTGTGTACATTTCTTCCACATTTCTACATGCAAGT
 CCTGATGTCTCAGAACCTATCGAAGGCTTGAATCCTAACGAAGATGAGCATAGGACATACTGGATGTGG
 AACCCATAACTGGATTCCTACTACAGTTTGCAAAACGACTGCAGTCAACATACTGGTCAAGCCAGCTAG
 AAAAAAGAAAGCACTGAAGAATCTGAAGAGACCTTACATTGTACCTATACTGTGGCTAAAATGAGACTGGG
 ACCATCGGCGATGAGAAAGCAGAAATGTTGAGAAACCAAGTGACCGGAAAAATAAAGCTCCTGGGCTGG
 TTGAGATGGTCTTACTTGGTGTGGAGTAGTGATGTTGTTGCTTTATGATTCATACTGTGCTTGCAG
 ATCTAAGAATGGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208261 representing NM_031561
 Red=Cloning site Green=Tags(s)

MGCDRNCGLITGAVIGAVLAVFGGILMPVGDLLIEKTIKREVVLEEGTIAFKNWKVTGTTVYRQFWIFDV
 QNPEEVAKNSSKIKVKQRGPYTYRVRYLAKENITQDPKDSTVSFVQPNGAIFEPSLSVGTENDNFTVLNL
 AVAAAPHIYTNSFVQGLNSLIKSKSSMFQTRSLKELLWGYKDPFLSLVPYPISTTVGVFYPYNNVTDG
 VYKVFNGKDNISKVAIIDTYKGRNLSYWESYCDMINGTDAASFPPFVEKSRTLRFSSDICRSIYAVFG
 SEVNLKGI PVYRFVLPANAFASPLQPNHNCFCTEKVISNNCTSYGVLDIGKCKEKGKPYIISLPHFLHAS
 PDVSEPIEGLNPNEDEHRTYLDVEPITGFTLQFAKRLQVNILVKPARKIEALKNLKRPYIIVPILWLNETH
 TIGDEKAEMFRNQVTGKIKLLGLVEMVLLGVGVVMFVAFMISYCACRSKNGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

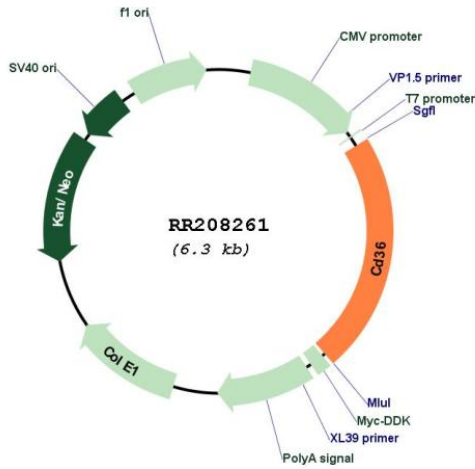
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031561

ORF Size: 1416 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_031561.2, NP_113749.2</p>
RefSeq Size:	<p>2625 bp</p>
RefSeq ORF:	<p>1419 bp</p>
Locus ID:	<p>29184</p>
Cytogenetics:	<p>4q11</p>
MW:	<p>52.7 kDa</p>
Gene Summary:	<p>fatty acid translocase; involved in long-chain fatty acid (LCFA) transport; important in fatty acid metabolism and insulin function [RGD, Feb 2006]</p>