

Product datasheet for MR204706

Cd47 (NM_010581) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd47 (NM_010581) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd47
Synonyms:	9130415E20Rik; AA407862; AI848868; AW108519; B430305P08Rik; IAP; Itgp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204706 representing NM_010581 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCCCTTGGCGGGCGCTGTTGCTGGGCTCCTGCTGCTGCGGTTTCAGCTCAACTACTGTTTAGTA
ACGTCAACTCCATAGAGTTCACCTCATGCAATGAACTGTGGTCATCCCTTGCATCGTCCGTAATGTGGA
GGCGCAAAGCACCGAAGAAATGTTGTGAAGTGAAGTTGAACAAATCGTATATTTTCATCTATGATGGA
AATAAAAAATAGCACTACTACAGATCAAACTTTACCAGTGCAAAAATCTCAGTCTCAGACTTAATCAATG
GCATTGCCTCTTTGAAAATGGATAAGCGCGATGCCATGGTGGGAACTACACTTGCAGAGTGACAGAGTT
ATCCAGAGAAGGCAAAACAGTTATAGAGCTGAAAACCGCACGGCCTTCAACACTGACCAAGGATCAGCC
TGTTCTTACGAGGAGGAGAAAGGAGTTGCAAATTAGTTTCGTGGTTTTCTCAAATGAAAAGATCCTCA
TTGTTATTTCCCAATTTTGCTATACTCCTGTTCTGGGAAAGTTTGGTATTTAACACTCAAATATAA
ATCCAGCCATACGAATAAGAGAAATCATTCTGCTGCTCGTTGCCGGCTGGTGCTCACAGTCATCGTGGTT
GTTGGAGCCATCCTTCTCATCCCAGGAGAAAAGCCCGTGAAGAATGCTTCTGGACTTGGCCTCATTGTGA
TCTCTACGGGGATTAATACTACTTTCAGTACAATGTGTTTATGACAGCTTTTGGAAATGACCTCTTTAC
CATTGCCATATTGATCACTCAAGTGTGGGCTACGTCCTTGGCTTGGTGGGCTGTGTCTCTGCATCATG
GCATGTGAGCCAGTGCACGGCCCTTTTGAATTCAGGTTTGGGATCATAGCTTAGCAGAACTACTTG
GATTAGTTTATGAAGTTTGTCCCTTCCAACCCAGAGGACTATCCAACCTCCTAGGAATAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204706 representing NM_010581
Red=Cloning site Green=Tags(s)

MWPLAAALLLGSCCCGSAQLLFSNVNSIEFTSCNETVVIPCIVRNVEAQSTEEMFVKWLNKSYIFIYDG
 NKNSTTTDQNFSAKISVSDLINGIASLKMDKRDAMVGNVYCEVTELSREGKTVIELKNRTAFNTDQGSA
 CSYEEEEKGGCKLVSFSPNEKILIVIFPILAILLFWGKFGILTLYKSSHTNKRIILLLVAGLVLTVIVV
 VGAILLIPGEKPVKNASGLGLIVISTGILILLQYNVFMATFGMTSFTIAILITQVLGYVLALVGLCLCIM
 ACEPVHGPLLISLGLIALAELLGLVYMKFVASNQRTIQPPRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010581

ORF Size: 972 bp

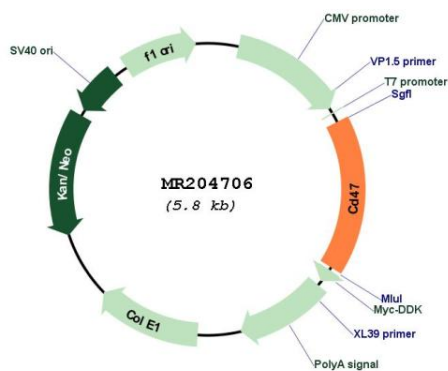
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<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:	NM_010581.2
RefSeq Size:	1928 bp
RefSeq ORF:	975 bp
Locus ID:	16423
UniProt ID:	Q61735
Cytogenetics:	16 B5
MW:	35.8 kDa
Gene Summary:	Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus. Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204706