

## Product datasheet for **MG204706**

### Cd47 (NM\_010581) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Cd47 (NM_010581) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | Cd47  |
| Synonyms:                 | 9130415E20Rik; AA407862; AI848868; AW108519; B430305P08Rik; IAP; Itgp       |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG204706 representing NM_010581<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCCCTTGGCGGGCGCTGTTGCTGGGCTCCTGCTGCTGCGGTTTCAGCTCAACTACTGTTTAGTA  
ACGTCAACTCCATAGAGTTCACCTCATGCAATGAACTGTGGTCATCCCTTGCATCGTCCGTAATGTGGA  
GGCGCAAAGCACCGAAGAAATGTTGTGAAGTGAAGTTGAACAAATCGTATATTTTCATCTATGATGGA  
AATAAAAATAGCACTACTACAGATCAAACTTTACCAGTGCAAAAATCTCAGTCTCAGACTTAATCAATG  
GCATTGCCTCTTTGAAAATGGATAAGCGCGATGCCATGGTGGGAACTACACTTGCGAAGTGACAGAGTT  
ATCCAGAGAAGGCAAAACAGTTATAGAGCTGAAAACCGCACGGCCTTCAACACTGACCAAGGATCAGCC  
TGTTCTTACGAGGAGGAGAAAGGAGTTGCAAATTAGTTTCGTGGTTTTCTCAAATGAAAAGATCTCA  
TTGTTATTTCCCAATTTGGCTATACTCCTGTTCTGGGAAAGTTTGGTATTTAACACTCAAATATAA  
ATCCAGCCATACGAATAAGAGAAATCATTCTGCTGCTCGTTGCCGGCTGGTGCTCACAGTCATCGTGGT  
GTTGGAGCCATCCTTCTCATCCCAGGAGAAAAGCCCGTGAAGAATGCTTCTGGACTTGGCCTCATTGTGA  
TCTCTACGGGGATTAATACTACTTTCAGTACAATGTGTTTATGACAGCTTTTGGAAATGACCTCTTTAC  
CATTGCCATATTGATCACTCAAGTGTGGGCTACGTCCTTGGCTTGGTGGGCTGTGTCTCTGCATCATG  
GCATGTGAGCCAGTGCACGGCCCTTTTGAATTCAGGTTTGGGATCATAGCTTAGCAGAACTACTTG  
GATTAGTTTATATGAAGTTTGTCCGCTTCCAACCCAGAGGACTATCCAACCTCCTAGGAATAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204706 representing NM\_010581  
Red=Cloning site Green=Tags(s)

MWPLAAALLLGSCCCGSAQLLFSNVNSIEFTSCNETVVIPICIVRNVEAQSTEEMFVKWLNKSYIFIYDGNKNSTTTDQNFSAKISVSDLINGIASLKMdkrdAMVGNyTCEVTELSREGKTVIELKNRTAFNTDQGSACSyEEEEKGGCKLVSWFSPNEKILIVIFPILAILLFWGKFGILTLKYSSHTNKRIILLLVAGLVLTVIVVVGAILLIPGEKPVKNASGLGLIVISTGILILLQYNVFMtAFGmTSFTIAILITQVLGYVLALVGLCLCIMACEPVHGPLLISGLGIIALAEllGLVYMKFVASNQRTIQPPRR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010581

**ORF Size:** 972 bp

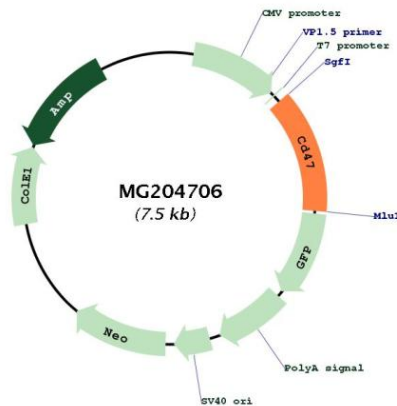
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](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.

|                               |  |
|-------------------------------|--|
| <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>                | <u><a href="#">NM_010581.2</a></u>   |
| <b>RefSeq Size:</b>           | 1928 bp  |
| <b>RefSeq ORF:</b>            | 975 bp   |
| <b>Locus ID:</b>              | 16423  |
| <b>UniProt ID:</b>            | <u><a href="#">Q61735</a></u>  |
| <b>Cytogenetics:</b>          | 16 B5  |
| <b>Gene Summary:</b>          | <p>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]</p> |

**Product images:**



Circular map for MG204706