

## Product datasheet for SC119049

### CD47 (NM\_001777) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD47 (NM_001777) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD47
Synonyms:	IAP; MER6; OA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_001777 edited  
 GAATTCGGCACGAGGCGCGTGCAGCGGCGGCGTGCAGCCTGGGCAGTGGGTCTGCCTGTG  
 ACGCGCGGCGGCGGTTCGGTCTGCCTGTAAACGGCGGCGGCGGCTGCTGCTCCAGACACCT  
 GCGGCGGCGGCGGCGGCGGCGGCGGCGGAGATGTGGCCCTGGTAGCGGCGCTGT  
 TGCTGGGCTCGGCGTGCAGGATCAGCTCAGCTACTATTTAATAAAAACAAAATCTGTAG  
 AATTCACGTTTTTAATGACACTGTCGTCATTCCATGCTTTGTTACTAATATGGAGGCAC  
 AAAACACTACTGAAGTACGTAAGTGGAAATTTAAAGGAAGAGATATTTACACCTTTG  
 ATGGAGCTCTAAACAAGTCCACTGTCCCACTGACTTTAGTAGTGCAAAAATTGAAGTCT  
 CACAATTAATAAAGGAGATGCCTCTTTGAAGATGGATAAGAGTGATGCTGTCTCACACA  
 CAGGAACTACACTTGTGAAGTAACAGAATTAACCAGAGAAGGTGAAACGATCATCGAGC  
 TAAAATATCGTGTGTTTCATGGTTTTCTCAAATGAAAATATTCTTATTGTTATTTTCC  
 CAATTTTGTCTACTCCTGTTCTGGGGACAGTTTGGTATTAACACTTAAATATAGAT  
 CCGGTGGTATGGATGAGAAAACAATTGCTTTACTTGTGCTGGACTAGTGATCACTGTCA  
 TTGTCATTGTTGGAGCCATTCTTTTCGTCAGGTTGAATATTCATTAAAGAATGCTACTG  
 GCCTTGGTTAATTGTGACTTCTACAGGATATTAATATACTTCACTACTATGTGTTTA  
 GTACAGCGATTGGATTAACCTCCTTCGTCATTGCCATATTGGTTATTGAGGTGATAGCCT  
 ATATCCTCGCTGTGGTTGGACTGAGTCTCTGTATTGCGGCGTGTATACCAATGCATGGCC  
 CTCTTCTGATTTTCAGGTTTGAAGTATCTTAGCTCTAGCACAACTTGGACTAGTTTATA  
 TGAATTTGTGGCTTCCAATCAGAAGACTATACAACCTCCTAGGAAAGCTGTAGAGGAAC  
 CCCTTAATGCATTCAAAGAATCAAAGGAATGATGAATGATGAATAACTGAAGTGAAGTG  
 ATGGACTCCGATTTGGAGAGTAGTAAGACGTGAAAGGAATACACTTGTGTTTAAGCACCA  
 TGGCCTTGATGATTAAGTGTGGGAGAAAGAAACAAGAAAAGTAACTGGTTGTCACCTAT  
 GAGACCTTACGTGATTGTTAGTTAAGTTTTTATTCAAAGCAGCTGTAATTTAGTTAATA  
 AAATAATTATGATCTATGTTGTTTGCCCAATTGAAAAAAAAAAAAAAAAAACTCGAC



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001777 unedited  
 GGCAACACCATTTCGGCAGCAGGGCGCGTGCCTCGGCCGTGCAGCCTGGGCAGTGGGTCTCT  
 GCCTGTGACGCGCGGGCGGGTCCGCTGCTGTAACGGCGGGCGGGTCTGCTCCAGACACCTGCGGCGGGCGGGCGGAGATGTGGCCCTGGTAGCT  
 GCGTTGTGTGGCTCGGCGTCTGCGGATCAGCTCAGCTACTATTTAATAAAACAAAA  
 TCTGTAGAATTCACGTTTTGTAATGACACTGTCGTCATTCCATGCTTTGTTACTAATATG  
 GAGGCACAAAACACTACTGAAGTATACGTAAGTGGAAATTTAAAGGAAGAGATATTTAC  
 ACCTTTGATGGAGCTCTAAACAAGTCCACTGTCCCACTGACTTTAGTAGTGAAAAAATT  
 GAAGTCTCACAATTAATAAAGGAGATGCCTCTTTGAAGATGGATAAGAGTGATGCTGTC  
 TCACACACAGGAACTACACTTGTGAAGTAACAGAATTAACCAGAGAAGGTGAAACGATC  
 ATCGAGCTAAAATATCGTGTGTTTCATGGTTTTCTCCANATGAAAAATTTCTTATTGTT  
 ATTTTCCCAATTTTGTATACTCCTGTTCTGGGACAGTTTGGTATTAACACACTTAA  
 TATAGATCCGGTGGTATGGATGAGAAACAATTGCTTTACTTGTGCTGGACTAGTGATCA  
 CTGTCCATGGCATTGTTGAAGCCATTCTTTTCGTCAGGTGAATATTCTTAAAGAATG  
 CTACTGGCCCTGGTTAATGTGACTTCTACAGGAATATTAATATTACCTTCTACTTGTG  
 TTTAGACAACGATTGAATTACCCCTTCGTCATGCCACATTGGGTATTCAGGGGAAAGC  
 CT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001777 unedited  
 GGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTCAATTGGGCAAACAACATAGA  
 TCATAATTATTTTAACTAAATTACAGCTGCTTTGAATAAAAACTTAACTAACAATCA  
 CGTAAGGGTCTCATAGGTACAACCACTACTTTTCTGTTTCTCTCCCAACAGTGAA  
 TCATCAAGGCCATGGTGTAAACACAAGTGTATTCTTTACAGTCTTACTACTCTCAA  
 ATCGGAGTCCATCACTTCACTTCACTTATTCATCATTCACTTTTATTGATTCTTTGA  
 ATGCATTAAGGGGTTCTCTACAGCTTTCTAGGAGGTTGTATAGTCTTCTGATTGGAAG  
 CCACAAATTTATATAAACTAGTCCAAGTAATTGTGCTAGAGCTAAGATACTCAAACCTG  
 AAATCAGAAGAGGGCCATGCATTGGTATACACGCCGCAATACAGAGACTCAGTCCAACCA  
 CAGCGAGGATATAGGCTATCACCTGAATAACCAATATGGCAATGACGAAGGAGGTTAATC  
 CAATCGCTGTACTAAACACATAGTAGTGAAGTAATTAATATCCCTGTAGAAGTCACAA  
 TTAACCAAGGCCAGTAGCATTCTTTAATGAATATTCACCTGGGACGAAAAGAATGGCTC  
 CAACAATGACAATGACAGTGATCACTAGTCCAGCAACAAGTAAAGCAATTGTTTTCTCAT  
 CCATACCACCGGATCTATATTTAAGTGTTTTAATACCAAAGTGTCCCAACAGGAGTAT  
 AGCANAAATTGGGAAAATACACTAAGATATTTTCAATTTGGAGAATACCATGAAACACACG  
 ATATTTAGCTCGATGATCGTTTACCTTCTCTGGNTAAATCTGTACTTCACAAGTGATG  
 TTNCCCTGGTGTGAGACAGCATCACTCTTATNCCATCTCAAGAGGCATCTCCTCTAG  
 TAATNGNGAGACTTCATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001777

**Insert Size:**

1400 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
<b>Components:</b>	<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>
<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>	<a href="#">NM_001777.3</a> , <a href="#">NP_001768.1</a>
<b>RefSeq Size:</b>	5346 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	961
<b>UniProt ID:</b>	<a href="#">Q08722</a>
<b>Cytogenetics:</b>	3q13.12
<b>Domains:</b>	CD47
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	ECM-receptor interaction

**Gene Summary:**

This gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2010]  
Transcript Variant: This variant (1) encodes the longest isoform (1).