

## Product datasheet for **SC116067**

### CD146 (MCAM) (NM\_006500) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD146 (MCAM) (NM_006500) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD146
Synonyms:	CD146; HEMCAM; MeICAM; METCAM; MUC18
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC116067 sequence for NM\_006500 edited (data generated by NextGen Sequencing)

```

ATGGGGCTTCCCAGGCTGGTCTGCGCCTTCTTGCTCGCCGCTGCTGCTGCTGTCTCGC
GTCGCGGGTGTGCCCGGAGAGGCTGAGCAGCCTGCGCCTGAGCTGGTGGAGGTGGAAGTG
GGCAGCACAGCCCTTCTGAAGTGC GGCTCTCCAGTCCCAAGGCAACCTCAGCCATGTC
GACTGGTTTTCTGTCCACAAGGAGAAGCGGACGCTCATCTTCCGTGTGCCAGGGCCAG
GGCCAGAGCGAACCTGGGGAGTACGAGCAGCGGCTCAGCCTCCAGGACAGAGGGGCTACT
CTGGCCCTGACTCAAGTCAACCCCAAGACGAGCGCATCTTCTTGCCAGGGCAAGCGC
CCTCGGTCCCAGGAGTACCGCATCCAGCTCCGCGTCTACAAAGCTCCGGAGGAGC AAAAC
ATCCAGGTCAACCCCTGGGCATCCCTGTGAACAGTAAGGAGCCTGAGGAGGTGCTACC
TGTGTAGGGAGGAACGGGTACCCATTCTCAAGTCATCTGGTACAAGAATGGCCGGCT
CTGAAGGAGGAGAAGAACCGGTCCACATTCAGTCGTCCAGACTGTGGAGTCCAGTGGT
TTGTACACCTTGACAGTATTCTGAAGGCACAGCTGGTTAAAGAAGACAAAGATGCCAG
TTTTACTGTGAGCTCAACTACCGCTGCCAGTGGGAACCATGAAGGAGTCCAGGGAA
GTCACCGTCCCTGTTTTCTACCCGACAGAAAAAGTGTGGCTGGAAGTGGAGCCCGTGGGA
ATGCTGAAGGAAGGGGACCGCGTGGAAATCAGGTGTTGGCTGATGGCAACCTCCACCA
CACTTCAGCATCAGCAAGCAGAACCCAGCACCAGGGAGGCAGAGGAAGAGACAACCAAC
GACAACGGGGTCTGGTCTGGAGCCTGCCCGAAGGAACACAGTGGGCGCTATGAATGT
CAGGGCTGGACTTGGACACCATGATATCGCTGCTGAGTGAACACAGGAACTACTGGTG
AACTATGTGTCTGACGTCCGAGTGTGAGTCCCGCAGCCCTGAGAGACAGGAAGGCAGCAGC
CTCACCCGTGACCTGTGAGGCAGAGAGTAGCCAGGACCTCGAGTTCAGTGGCTGAGAGAA
GAGACAGGCCAGGTGCTGAAAGGGGGCCTGTGCTTCAAGTGCATGACCTGAAACGGGAG
GCAGGAGGCGGCTATCGCTGCGTGGCGTCTGTGCCAGCATAACCGGCCCTGAACCGCAC
CAGCTGGTCAACGTGGCCATTTTTGGCCCCCTTGGATGGCATTCAAGGAGAGGAAGGTG
TGGGTGAAAGAGAATATGGTGTTGAATCTGTCTTGTGAAGCGTCAAGGGCACCCCGGCC
ACCATCTCCTGGAACGTCAACGGCACGGCAAGTGAACAAGACCAAGATCCACAGCGAGTC
CTGAGCACCTGAATGTCCTCGTGACCCCGGAGCTGTTGGAGACAGGTGTTGAATGCACG
GCCTCAAACGACCTGGGCAAAAACACCAGCATCCTTCTTGGAGCTGGTCAATTTAACC
ACCCTCACACCAGACTCCAACACAACCACTGGCCTCAGCACTTCCACTGCCAGTCTCAT
ACCAGAGCCAACAGCACCTCCACAGAGAGAAAGCTGCCGGAGCCGGAGAGCCGGGGCGTG
GTCATCGTGGCTGTGATTGTGTGCATCCTGGTCTGGCGGTGCTGGGCGCTGTCCTCTAT
TTCCTCTATAAGAAGGGCAAGCTGCCGTGACGGCGCTCAGGGAAGCAGGAGATCACGCTG
CCCCCGTCTCGTAAGAGCGAACTTGTAGTTGAAGTTAAGTCAGATAAGCTCCCAGAAAG
ATGGGCTCCTGCAGGGCAGCAGCGGTGACAAGAGGGCTCCGGGAGACCAGGGAGAGAAA
TACATCGATCTGAGGCATTAG

```

Clone variation with respect to NM\_006500.2  
 1800 a=>g

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006500 unedited  
 TAACGTCAAATTTTGTATACGACTCCTATAGGCGGCACGCGAATTCGCACGAGAGGGGCT  
 TCCCAGGCTGGTCTGCGCCTTCTTGTCTCGCCGCCTGCTGCTGCTGTCTCGCGTCCGCGG  
 TGTGCCCGGAGAGGCTGAGCAGCCTGCGCCTGAGCTGGTGGAGGTGGAAGTGGGCAGCAC  
 AGCCCTTCTGAAGTGGCGCCTCTCCAGTCCCAAGGCAACCTCAGCCATGTCGACTGGTT  
 TTCTGTCCACAAGGAGAAGCGGACGCTCATCTTCCGTGTGCGCCAGGGCCAGGGCCAGAG  
 CGAACCTGGGGAGTACGAGCAGCGGCTCAGCCTCCAGGACAGAGGGGCTACTCTGGCCCT  
 GACTCAAGTCACCCCAAGACGAGCGCATCTTCTTGTGCCAGGCAAGCGCCCTCGGTC  
 CAGGAGTACCGCATCCAGCTCCGCGTCTACAAAGCTCCGGAGGAGCAAACATCCAGGT  
 CAACCCCTGGGCATCCCTGTGAACAGTAAGGAGCCTGAGGAGGTCGCTACCTGTGTAGG  
 GAGGAACGGGTACCCATTCTCAAGTCATCTGGTACAAGAATGGCCGGCCTCTGAAGGA  
 GGAGAAGAACCGGTCCACATTCAGTCGTCCAGACTGTGGAGTCGAGTGGTTTGTACAC  
 CTTGCAGAGTATTCTGAAGGCACAGCTGGTTAAGAAGACAAAGATGCCAGTTTTACTG  
 TGAGCTCAACTACCGCTGCCAGTGGGAACCACATGAAGGAGTCCAGGGAAGTCACCGT  
 CCCTGTTTTCTNACCCGACAGATAAGTGTGGCTGGAAGTGGAGCCGTGGGAATGCTGAA  
 NGAGGGGACCGCTGGAATCATGTGTTGGGCTGATGGCACCCCTNCACCACACTTCAGCA  
 TCAGCAAGCATGATCCCAGCACC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006500 unedited  
 CTATGTAACGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGATTTCTGGG  
 CAATTAAGCTTTATTTTTCATATATATATATATTTCTTCATATATATATACATACATAT  
 ATAAAGGAAACAATTTGCAAATTTACACACCTGACAAAACCATATATACACACATATGTA  
 TGCATACACACAGACAGACACACACACCCGAAGCTCTAGCCAGGCCGTTTTCCATCCCT  
 AAGTACCATTCTCTCATTGGGCCCTTCTAAGGTTGGGGCCCTGAGCTTGGTTTGTAGAA  
 GTTTGGTGCTAATATAACCATAGCTTAAATCCCATGAAGGACAGTGTAGACCTCATCTT  
 TGTCTGCTCCCGCTGCCTTTACGTTTTACGTGATCCATCAAGAGGGCTATGGGAGCCAA  
 GTGAACACGGGGATTGAGGCTAATCACCTGAACTCGAAAACAGCGCCAGCTTCTCA  
 CTGCAAGCACGTGTCTTTTCTTTTTTTTTTCTCGAGACGGAGTCTCGCTGTGTTGCCAA  
 GCTGGAGTGCAGTGGCACGGTCTCGGCTCACTGCAAGCTCCACCTCCTGGATTACATCCA  
 TTCTCCTGCTTCAAGCCTTCGAGTAGCTGGGACTATATGTGCCAACCACTACGCCTAGCT  
 AACTCCTTCTAGATTTTTAATACACACAGGCTTTCACCGGTTAACCACGATGGACTTGT  
 CCTGAATTTGTGATCCGCGCCCTCGGCCACAAAAGGCCGGGATTACAGGTGTGAGACA  
 CCACACCTGGCCCGGAACGTATTTTTAAAGAAGACACCAATTCTTGGTTTTGCACAAGA  
 AAATAGTCAAGGATATTTGTACAGCACAATGAGGGTGGGGCCACCCTGCAACTGCTATG  
 GATGCTTCGGGGGTTCTGCAGCGNGGTACAAACCACTAAACTTATCGGCCCGCACCG  
 GGAACCTTTAACGTGGCCCGGAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006500

**Insert Size:**

3460 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>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_006500.2</a> , <a href="#">NP_006491.2</a>
<b>RefSeq Size:</b>	3332 bp
<b>RefSeq ORF:</b>	1941 bp
<b>Locus ID:</b>	4162
<b>UniProt ID:</b>	<a href="#">P43121</a>
<b>Cytogenetics:</b>	11q23.3
<b>Domains:</b>	ig, IGc2, IG
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Gene Summary:</b>	<p>Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration.[UniProtKB/Swiss-Prot Function]</p>