

Product datasheet for **SC119894**

CD31 (PECAM1) (NM_000442) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD31 (PECAM1) (NM_000442) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD31
Synonyms:	CD31; CD31/EndoCAM; endoCAM; GPIIA'; PECA1; PECAM-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_000442 edited
ATGCAGCCGAGGTGGGCCCAAGGGGCCACGATGTGGCTTGGAGTCCTGCTGACCCCTTCTG
CTCTGTTCAAGCCTTGAGGGTCAAGAAAACCTTTTCACAATCAACAGTGTGACATGAAG
AGCCTGCCGGACTGGACGGTGCAAAATGGGAAGAACCTGACCCTGCAGTGCTTCGCGGAT
GTCAGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTG
CTGTTTTACAACATCTCCTCCATGAAGAGCACAGAGAGTTATTTTATTCCTGAAGTCCGG
ATCTATGACTCAGGGACATATAAATGTACTGTGATTGTGAACAACAAGAGAAAACCACT
GCAGAGTACCAGGTGTTGGTGGAAAGGAGTGCCAGTCCCAGGGTGACACTGGACAAGAAA
GAGGCCATCCAAGTGGGATCGTGAGGGTCAACTGTTCTGTCCCAGAGGAAAAGGCCCA
ATACACTTCACAATTGAAAACTTGAACATAAATGAAAAAATGGTCAAGCTGAAAAGAGAG
AAGAATTCTCGAGACCAGAATTTTGTGATACTGGAATTCCTCGTTGAGGAACAGGACCGC
GTTTTATCCTTCCGATGTCAAGCTAGGATCATTCTGGGATCCATATGCAGACCTCAGAA
TCTACCAAGAGTGAAGTGGTCCCGTGACGGAATCCTTCTACACCCAAGTTCACATC
AGCCCCACCGAATGATCATGGAAGGAGCTCAGCTCCACATTAAGTGCACCATTCAAGT
ACTCACCTGGCCAGGAGTTTCCAGAAATCATAATTCAGAAGGACAAGGGCATTGTGGCC
CACAACAGACATGGCAACAAGGCTGTGTACTCAGTCATGCCATGGTGGAGCACAGTGGC
AACTACACGTGCAAGTGGAGTCCAGCCGATATCCAAGGTCAGCAGCATCGTGGTCAAC
ATAACAGAACTATTTTCCAAGCCGAACTGGAATCTTCTTACACATCTGGACCAAGGT
GAAAGACTGAACCTGTCTGTCCATCCCAGGAGCACCTCCAGCCAACCTCACCATCCAG
AAGGAAGATACGATTGTGTACAGACTCAAGATTTTACCAGATAGCCTCAAAGTCGGAC
AGTGGGACGTATATCTGCACTGCAGGATTGACAAAAGTGGTCAAGAAAAGCAACACAGTC
CAGATAGTCGTATGTGAAATGCTCTCCAGCCAGGATTTCTTATGATGCCAGTTTGAG
GTCATAAAAAGGACAGACCATCGAAGTCCGTTGCGAATCGATCAGTGGAACTTTGCCTATT
TCTTACCAACTTTTAAAAACAAGTAAAGTTTTGGAGAATAGTACCAAGAACTCAAATGAT
CCTGCGGTATTCAAAGACAACCCCACTGAAGACGTGCAATACCAGTGTGTTGCAGATAAT
TGCCATTTCCACGCCAAAATGTTAAGTGAGGTTCTGAGGGTGAAGGTGATAGCCCCGGT
GATGAGGTCCAGATTTCTATCCTGTCAAGTAAGGTGGTGGAGTCTGGAGAGGACATTGTG
CTGCAATGTGCTGTGAATGAAGGATCTGGTCCCATCACCTATAAGTTTTACAGAGAAAA
GAGGGCAAACCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAG
AAGGCTAACAAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAACAGAGCCAACCAC
GCCTCCAGTGTCCCAGAAAGCAAATACTGACAGTCAGAGTCATTCTTGGCCCATGGAAG
AAAGGACTTATTGCAAGTGGTTATCATCGGAGTGATCATTGCTCTCTTGATCATTGCGGCC
AAATGTTATTTTCTGAGGAAAGCCAAGGCCAAGCAGATGCCAGTGGAAATGTCCAGGCCA
GCAGTACCACTTCTGAACTCCAACAACGAGAAAAATGTCAGATCCAATATGGAAGCTAAC
AGTCATTACGGTCACAATGACGATGTCCGAAACCATGCAATGAAACCAATAAATGATAAT
AAAGAGCCTCTGAACTCAGACGTGCAGTACACGGAAGTTCAAGTGTCTCAGCTGAGTCT
CACAAAGATCTAGGAAAGAAGGACACAGAGACAGTGTACAGTGAAGTCCGGAAAGCTGTC
CCTGATGCCGTGGAAAGCAGATACTCTAGAACGGAAGGCTCCCTTGATGGAACCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000442 unedited
TATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGCCATTACCTGACCAGC
GCCACAGCCGGTCTCTCTGCAGGCGCCGGGAGAAGTGACCAGAGCAATTTCTGCTTTTCA
CAGGGCGGGTTTCTCAATGGTGACTTGTGGGCAGTGCCTTCTGCTGAGCGAGTCATGGCC
CGAAGGCAGAATAACTGTGCCTGCAGTCTTACTCTCAGGATGCAGCCGAGGTGGGCC
AAGGGCCACGATGTGGCTTGGAGTCTGCTGACCCCTTCTGCTCTGTTCAAGCCTTGAGG
GTCAGAAAACTCTTTACAATCAACAGTGTGACATGAAGAGCCTGCCGGACTGGACGG
TGCAAAATGGGAAGAACCTGACCCTGCAGTGTTCGCGGATGTCAGCACCACTCTCACG
TCAAGCCTCAGCACAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAACATCTCCT
CCATGAAGAGCACAGAGATTATTTTATTCCTGAAGTCCGGATCTATGACTCAGGGACAT
ATAAATGTACTGTGATTGTGAACAACAAAGAGAAAACCACTGCAGAGTACCAGGTGTTGG
TGAAGGAGTGCCANTCCAGGGTGACACTGGACAAGAAAAGGCCATCCAAGGTGGGA
TCGTGAGGGTCACCTGTTCTGTCCCAAGGAAAGGCCCATACACTTACATTGAAAACCT
GACTAAATGAAAATGTCAAGCTGAAAGAGAGAGAATTCTCGAGACAGATTTTGTGAACT
GGAATTCCTGTTGAGGACAAGACCGCTTATCCTTCGTGTCAGCTAGGACATTTNTGGA
TCCTATGCAGCCTAAAATTACCAAGAGGACTGTCACGGGACGGATCCTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000442 unedited
GACAAGAGTCAAATTTATTTAATAACAACATCCACGAGGTCCCTGCAGCTGTGTCAGTGTG
GCAAACAGGAAAGTGATTTTGGTAGGGCTGGTTCNTCATCTGTGAAATCCACAGCGCA
ATGACAGCAGCCTCTCTCCACCACTCAAGACTGTCAGGAATGTCTTAAGACCTCAG
GAGACCACTTCTTTAGCAAGCAATTTTGTGTTTTTGTGTTTTTGTGAGATGGATTCTACTC
TGTCACTCAGGCTGGAGTGCAGTGGCGCATCTCCGCTCACTACAACCTCCGTTTCTGG
GTTCAAGCGATAATCTCACCTCAGCCTCTTGTAGTACTGATACTACAGGCATGCGCCACC
ACGCCCCGCTAATTTCTGTATTTTGTAGTAGAGACAGGGTTTCATCAGGCTGGTCTCAAAC
TCCTGACCTCAGGTGATCCGCCACCTCAGCCTCCTGAAGTGTGGGATTACAGGCGTGA
GCCACCTTGCCTGCCCTGGCAAGGAATACATTTTAAAAATTAGTAAGAAACATACACAT
TTCAAGTTTTCAATTAAGAATAATTTGCTGATGGCACCATCTCCTGTCTTTCAGCCT
TCAGCCCGGTGAGGAAAAGAGAAAGAGTGTATACACAAACAGTTGAAGAACATCTGCGC
TTGGGTACCTTCAATTTCTGCGCGTGTGCGCCTGAACGACCGGTGTCCTCATGGTGG
CATTTTCATAGGCGGGCTCCCAAGTAATTCTGGTTTTCCATTCTGAGGGGCCCGGCCCT
AAAGGGGGCCCGGGCCGTTCTGCTGCGCTCCCTGTTCTTCCACGCCAGGTTCTCC
CCCAACTCCATCCCCCGAGGATCTTGTATTATCCACACCCGGCTTACCCCGCCAG
GTTTTTGGAGATCGCGTTATAACAATCTGCTTCCCTTAGCCCCAGAAAGGCTCACTC
TCCACACCCCTCCCTAT

Restriction Sites:

NotI-NotI

ACCN:

NM_000442

Insert Size:

3700 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 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>
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_000442.2, NP_000433.2</p>
RefSeq Size:	<p>3189 bp</p>
RefSeq ORF:	<p>2217 bp</p>
Locus ID:	<p>5175</p>
UniProt ID:	<p>P16284</p>
Cytogenetics:	<p>17q23.3</p>
Domains:	<p>ig, IGc2, IG</p>
Protein Families:	<p>Druggable Genome, ES Cell Differentiation/IPS, Transmembrane</p>
Protein Pathways:	<p>Cell adhesion molecules (CAMs), Leukocyte transendothelial migration</p>
Gene Summary:	<p>The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]</p>