

## Product datasheet for **SC309056**

### CD44 (NM\_000610) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD44 (NM_000610) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD44
Synonyms:	CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000610, the custom clone sequence may differ by one or more nucleotides

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ATGGACAAGTTTTGGTGGCAGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGATCGATT
TGAATATAACCTGCCGCTTTGCAGGTGTATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGAC
GGAGGCCGCTGACCTCTGCAAGGCTTTCAATAGCACCTTGCCCAATGGCCAGATGGAGAAAGCTCTG
AGCATCGGATTTGAGACCTGCAGGTATGGGTTCATAGAAGGGCACGTGGTGATTCGCCGGATCCACCCCA
ACTCCATCTGTGCAGCAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCCAGTATGACACATA
TTGCTTCAATGCTTCAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCAATGCCTTTGAT
GGACCAATTACCATAACTATTGTTAACCCTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGA
ATCCTGAAGACATCTACCCAGCAACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTAAAGGAG
CAGCACTTCAGGAGGTTACATCTTTACACCTTTTCTACTGTACACCCCATCCCAGACGAAGACAGTCCC
TGGATCACCGACAGCACAGACAGAATCCCTGCTACCCTTTGATGAGCACTAGTGCTACAGCAACTGAGA
CAGCAACCAAGAGGCAAGAAACCTGGGATTGGTTTTTCATGGTTGTTTCTACCATCAGAGTCAAAGAATCA
TCTTCACACAACAACACAATGGCTGGTACGCTTCAAATACCATCTCAGCAGGCTGGGAGCCAAATGAA
GAAAATGAAGATGAAAGAGACAGACACCTCAGTTTTTCTGGATCAGGCATTGATGATGATGAAGATTTTA
TCTCCAGCACCATTTCAACCACACCACGGGCTTTTGACCACACAAAACAGAACAGGACTGGACCCAGTG
GAACCCAGCCATTCAAATCCGGAAGTGCTACTTCAGACAACCACAAGGATGACTGATGTAGACAGAAAT
GGCACCCTGCTTATGAAGGAACTGGAACCCAGAAGCACACCCTCCCCTCATTACCATGAGCATCATG
AGGAAGAAGAGACCCACATTCTACAAGCACAATCCAGGCAACTCCTAGTAGTACAACGGAAGAAACAGC
TACCCAGAAGGAACAGTGGTTTGGCAACAGATGGCATGAGGGATATCGCCAAACACCCAAAGAAGACTCC
CATTTCGACAACAGGGACAGCTGCAGCCTCAGCTCATACCAGCCATCCAATGCAAGGAAGGACAACCCAA
GCCAGAGGACAGTTCTGGACTGATTTCTCAACCCAATCTCACACCCCATGGGACGAGGTCATCAAGC
AGGAAGAAGGATGGATATGGACTCCAGTCATAGTATAACGCTTCAGCCTACTGCAAAATCCAAACACAGT
TTGGTGGAAAGATTTGGACAGGACAGGACCTCTTCAATGACAACGCAGCAGAGTAATTCTCAGAGCTTCT
CTACATCACATGAAGGCTTGGAAAGAAGATAAAGACCATCCAACAACCTTCTACTCTGACATCAAGCAATAG
GAATGATGTCACAGGTGGAAGAAGAGACCCAAATCATTCTGAAGGCTCACTACTTTACTGGAAGGTTAT
ACCTCTCATTACCCACACACGAAGGAAAGCAGGACCTTCATCCCAGTGACCTCAGCTAAGACTGGGTCTT
TTGGAGTTACTGCAGTTACTGTTGGAGATTCAACTCTAATGTCAATCGTTCCTTATCAGGAGACCAAGA
CACATTCCACCCAGTGGGGGTCCCATACCCTCATGGATCTGAATCAGATGGACTCACATGGGAGT
CAAGAAGGTGGAGCAAACAACCTCTGGTCTATAAGGACACCCCAAATTCAGAAATGGCTGATCATCT
TGGCATCCCTCTTGGCCTTGGCTTTGATTTCTTGAGTTTGCATTGCAAGTCAACAGTCAAGAAAGGTGTGG
GCAGAAGAAAAAGCTAGTGATCAACAGTGGCAATGGAGCTGTGGAGGACAGAAAGCCAAGTGGACTCAAC
GGAGAGGCCAGCAAGTCTCAGGAAATGGTGCAATTTGGTGAACAAGGAGTCGTGAGAACTCCAGACCAGT
TTATGACAGCTGATGAGACAAGGAACCTGCAGAATGTGGACATGAAGATTGGGGTGTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000610 unedited CCGCCGTTGAGCAAATGGGCGGTAGGCGCGAAAGGTGGGAGGTCTATATAAGCAGAGCTC GTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCATG GACAAGTTTTGGTGGCACGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAG ATCGATTTGAATATAACCTGCCGCTTTGCAGGTGATTCCACGTGGAGAAAAATGGTCGC TACAGCATCTCTCGGACGGAGCCGCTGACCTCTGCAAGGCTTCAATAGCACCTTGCCC ACAATGGCCCAGATGGAGAAAGCTCTGAGCATCGGATTTGAGACCTGCAGGTATGGGTTC ATAGAAGGGCACGTGGTATTCCCGGATCCACCCAACCTCCATCTGTGCAGCAAACAAC ACAGGGGTGTACATCCTCACATCCAACACCTCCCAGTATGACACATATTGCTTCAATGCT TCAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCCAATGCCTTTGATGGA CCAATTACCATAACTATTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATAC AGAACGAATCCTGAAGACATCTACCCAGCAACCCTACTGATGATGACGTGAGCAGCGGC TCCTCCAGTGAAGGAGCAGCACTTCAGGAGGTTACATCTTTACACCTTTTCTACTGTA CACCCCATCCCAGACGAGACAGTCCCTGGATCACCGACAGCACAGACAGAATCCCTGCT ACCACTTGATGAGCACTAGTGCTAACAGCAACTGAAACAGCACCAGAGCAGAAACCTGG ATGTTTCATGTTGTTTCTACATCAGAGTCAAAGAATCATTCTACCACAACAAACCACAAT GGCTGGTACGGTTCCTTCCAAAATTAACAAATTCTCAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000610
<b>Insert Size:</b>	2200 bp
<b>OTI Disclaimer:</b>	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.  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>
<b>OTI Annotation:</b>	The ORF of this clone is found to be a perfect match to NM_000610.3.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000610.3</a> , <a href="#">NP_000601.3</a>
<b>RefSeq Size:</b>	5748 bp
<b>RefSeq ORF:</b>	2229 bp
<b>Locus ID:</b>	960
<b>UniProt ID:</b>	<a href="#">P16070</a>
<b>Cytogenetics:</b>	11p13
<b>Domains:</b>	Xlink
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane
<b>Protein Pathways:</b>	ECM-receptor interaction, Hematopoietic cell lineage
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. It encodes the longest isoform (1). Sequence Note: This RefSeq record represents the CD44*001.1.1 allele.</p>