

Product datasheet for **SC128160**

CD44 (NM_001001391) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD44 (NM_001001391) 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>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128160 sequence for NM_001001391 edited (data generated by NextGen Sequencing)

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ATGGACAAGTTTTGGTGGCAGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCG  
CAGATCGATTTGAATATAACCTGCCGCTTTGCAGGTGTATTCCACGTGGAGAAAAATGGT  
CGCTACAGCATCTCTCGGACGGAGGCGCTGACCTCTGCAAGGCTTTCAATAGCACCTTG  
CCCACAATGGCCAGATGGAGAAAGCTCTGAGCATCGGATTTGAGACCTGCAGGTATGGG  
TTCATAGAAGGGCAGTGGTGATTCCCCGGATCCACCCAACTCCATCTGTGCAGCAAAC  
AACACAGGGGTGTACATCCTCACATCCAACACCTCCCAGTATGACACATATTGCTTCAAT  
GCTTCAGTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCAATGCCTTTGAT  
GGACCAATTACCATAACTATTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAA  
TACAGAACGAATCCTGAAGACATCTACCCAGCAACCCTACTGATGATGACGTGAGCAGC  
GGCTCCTCCAGTGAAAGGAGCAGCACTTACAGGAGTTACATCTTTTACACCTTTTCTACT  
GTACACCCCATCCAGACGAAGACAGTCCCTGGATCACCGACAGCACAGACAGAATCCCT  
GCTACCAGAGACCAAGACACATTCACCCAGTGGGGGGTCCCATACCACTCATGGATCT  
GAATCAGATGGACTCACATGGGAGTCAAGAAGTGGAGCAAACACAACCTCTGGTCTCT  
ATAAGGACACCCCAAATCCAGAATGGCTGATCATCTTGGCATCCCTCTTGGCCTTGCT  
TTGATCTTGCAGTTTGCATTGCAGTCAACAGTCAAGAAGGTGTGGGCAGAAGAAAAAG  
CTAGTGATCAACAGTGGCAATGGAGCTGTGGAGGACAGAAAGCCAAGTGGACTCAACGGA  
GAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAGTCGTGAGAACTCCA  
GACCAAGTTTATGACAGCTGATGAGACAAGGAACCTGCAGAATGTGGACATGAAGATTGGG  
GTGTAA
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Clone variation with respect to NM_001001391.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001001391 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCCAGCCTCTGCCGGTT
 CGGTCCGCCATCCTCGTCCCCTCCGCCGCCCTGCCCGCGCCAGGGATCCTCCA
 GTCCTTTGCGCCGCGCCCTCCGTTCCGCTCCGGACACCATGGACAAGTTTGGTGGCAGC
 CAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGATCGATTGAATATAACCT
 GCCGCTTTCAGGTGTATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGACGG
 AGGCCGCTGACCTCTGCAAGGCTTCAATAGCACCTTGCCCAACATGGCCAGATGGAGA
 AAGCTCTGAGCATCGATTTGAGACCTGCAGGTATGGGTTTCATAGAAGGGCACGTGGTGA
 TCCCCCGATCCACCCAACTCCATCTGTGACGAAACAACACAGGGGTGTACATCCTCA
 CATCCAACACCTCCAGTATGACACATATTGCTTCAATGCTTCAGCTCCACCTGAAGAAG
 ATTGTACATCAGTCACAGACCTGCCAATGCCTTTGATGGACCAATTACCATAACTATTG
 TTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGAATCCTGAAGACA
 TCTACCCAGCAACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTAAAGGAGCA
 GCACTTCAGGAGTTACATCTTTTACACCTTTTCTACTGTACACCCCATCCAGACGAAG
 ACAGTCCCTGGGATCACCAGACAGACAGACAGAATCCCTGCTACCAGAGACCAAGAACAT
 TNCACCCAGGGGGGGTCCCATACACTCATGGATCTGATCAGATGACACTCACATGGAG
 TCAAGAAGTGGACANACCACCTCTGGTCTATAGGACACCCAATNCAAATGCTGATATCTN
 GCATCCTCTTGGCTGN

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_001001391 unedited
 CGCAATCTATAGTCGAGTNCCTT
 TTTTTTTTTTTTTTTGAAAATCGAAAAATAAAAATTTTTTTTTTTGAATCAATTTAAACC
 CTTTTGGGCCTTTGACAAAGTAACCTTTAAAAAATTTTTCTGGTCAAAGGGCTGGTCCAGG
 GGTTAATTTTTCAAAAACCCCAATAAATGTTTACTACAAATAAATAACTTCACCCTTTG
 GGGGGCTCCCAAAAACATTTGAAAAATTTCTAAAGGGGGGCTGTTGAAAATTTGTAACCTA
 GTACACCCCAACCCCAACCTTATTGAAAAACAATGCCCAAGGGTTAGGCTTTGGAAGGG
 CAAAATGGGCCCTTTAAATTTCTCCCAAGGACCAAGCCCTTTAAACCTGGGAAATGT
 CCCTAACTGGGGGGGAAAGGGTGGCGATCAAGAATACATATGGGGAGTTTTTGGTAAAA
 CCCCTCCCTTACACACCCAGGGATGAAAGGCCCAAGTGGGAACCGGAACCATCAAT
 TCTTGCTGATATTAATTTGGGCCCTAATTTCAAAAACAATGCTGTTTTACAATTTGGACCT
 GACTTTAAGAACCAACCCAAAACCAAGGAGTGAATTTTTTGCAAAAAAATTTCCAATG
 AAAAATCAGTACCCCTTGCTTTCGTTAAGTGCCACCTCCCTGGAATGATTTGTTTCCA
 ACGGTGGTTCTCTCAAATAATGGGGGGGGTAACCCCAATTTTATGTCCACATTTGAGG
 GTCCTTGCTATAACCGGATAAACGGCTGGAGTTTGAACCTCCTGTACAAATCCCATTT
 CTAATTTGGTGGCTCTCCGGAACACTTGTTTTTTCCAAATTTCTGGCCGGGGACCTATT
 TTTTTGCCACCTTTTCTGTGCGGTGGAACGAAAAAACCAGCCAGGTTCTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_001001391

Insert Size:

2050 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

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).

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:	NM_001001391.1 , NP_001001391.1
RefSeq Size:	4605 bp
RefSeq ORF:	1086 bp
Locus ID:	960
UniProt ID:	P16070
Cytogenetics:	11p13
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane
Protein Pathways:	ECM-receptor interaction, Hematopoietic cell lineage
Gene Summary:	<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 (4) lacks multiple coding-exons compared to variant 1. The translation remains in-frame. The resulting isoform (4) lacks an internal segment, as compared to isoform 1. Sequence Note: This RefSeq record represents the CD44*001.1.1 allele.</p>