

Product datasheet for **RC234071**

CD44 (NM_001202555) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD44 (NM_001202555) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD44
Synonyms:	CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234071 representing NM_001202555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAGTTTTGGTGGCAGCAGCCTGGGGACTCTGCCTCGTCCGCTGAGCCTGGCGCAGATCGATT
 TGAATATAACCTGCCGCTTTCAGGTGATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGAC
 GGAGGCCGCTGACCTCTGCAAGGCTTCAATAGCACCTTGCCACAATGGCCAGATGGAGAAAGCTCTG
 AGCATCGATTTGAGACCTGCAGGTATGGGTTCAAGAAGGACGTGGTATTCCCCGGATCCACCCCA
 ACTCCATCTGTGCAGCAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCAGTATGACACATA
 TTGCTTCAATGCTTCAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCAATGCCTTTGAT
 GGACCAATTACCATAACTATTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGA
 ATCCTGAAGACATCTACCCAGCAACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTGAAGGAG
 CAGCACTTCAGGAGTTACATCTTTACACCTTTCTACTGTACACCCCATCCAGACGAAGACAGTCCC
 TGGATCACCGACAGCACAGACAGAATCCCTGCTACCAATAGGAATGATGTACAGGTGGAAGAAGAGACC
 CAAATCATTCTGAAGGCTCAACTACTTTACTGGAAGGTTATACCTCTATTACCCACACAGAAAGAAAG
 CAGGACCTTATCCAGTGACCTCAGCTAAGACTGGGTCCTTTGGAGTTACTGCAGTTACTGTTGGAGAT
 TCCAATCTAATGTCAATCGTTCCTTATCAGGAGACCAAGACACATTCCACCCAGTGGGGGGTCCCATA
 CCACTCATGGATCTGAATCAGATGGACACTCACATGGGAGTCAAGAAGGTGGAGCAAACACAACCTCTGG
 TCCTATAAGGACACCCCAAATCCAGAAATGGCTGATCATCTTGGCATCCCTTTGGCCTTGCTTTGATT
 CTTGCAGTTTGCATTGCAGTCAACAGTCAAGAAGGTGTGGGCAGAAGAAAAGCTAGTGATCAACAGTG
 GCAATGGAGCTGTGGAGGACAGAAAGCCAAGTGGACTCAACGGAGAGGCCAGCAAGTCTCAGGAAATGGT
 GCATTTGGTGAACAAGGAGTCGTCAAGAACTCCAGACCAGTTTATGACAGCTGATGAGACAAGGAACCTG
 CAGAATGTGGACATGAAGATTGGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234071 representing NM_001202555
 Red=Cloning site Green=Tags(s)

MDKFWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKAL
 SIGFETCRYGFIIEGHVVIPRIHPNSICAAANTGVYILTSNTSQYDTCFNASAPPEEDCTSVTDLNPAFD
 GPIITITIVNRDGTTRYVQKGEYRTNPEDIYPSNPTDDDVSSESSERSSTSGGYIFYTFSTVHPIPEDSP
 WITDSTDRIPATNRNDVTGRRDPNHSEGSTLLEGYTSHYPHTKESRTFIPVTSAKTGSFGVTAFTVGD
 SNSNVNRSLSGDQDTFHPSGGSHHTHGSESDGSHSGSQEGGANTTSGPIRTPQIPEWLIILASLLALALI
 LAVCIAVNSRRRCGQKKLVINSNGAVEDRKPSGLNGEASKSQEMVHLVNKESSETPDQFMTADETRNL
 QNVDMKIGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2442_d06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001202555

ORF Size: 1287 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_001202555.2](#)

RefSeq Size: 4809 bp

RefSeq ORF: 1290 bp

Locus ID: 960

UniProt ID: [P16070](#)

Cytogenetics: 11p13

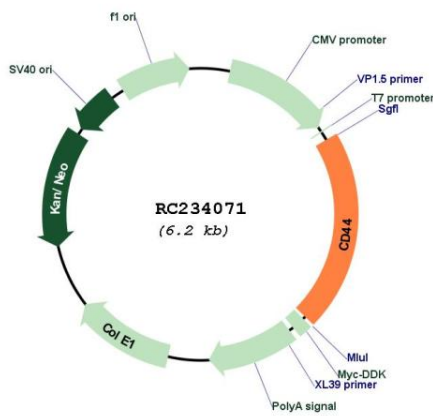
Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane

Protein Pathways: ECM-receptor interaction, Hematopoietic cell lineage

MW: 47 kDa

Gene Summary: 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]

Product images:



Circular map for RC234071