

Product datasheet for **RG212616**

CD44 (NM_001001390) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD44 (NM_001001390) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD44
Synonyms:	CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212616 representing NM_001001390
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACAAGTTTTGGTGGCAGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGATCGATT
 TGAATATAACCTGCCGCTTTCAGGTGTATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGAC
 GGAGGCCGCTGACCTCTGCAAGGCTTCAATAGCACCTTGCCACAATGGCCAGATGGAGAAAGCTCTG
 AGCATCGATTTGAGACCTGCAGGTATGGGTTCA TAGAAGGGCACGTGGTGATTCCCCGGATCCACCCCA
 ACTCCATCTGTGCAGCAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCAGTATGACACATA
 TTGCTTCAATGCTTCAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCAATGCCTTTGAT
 GGACCAATTACCATAACTATTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGA
 ATCCTGAAGACATCTACCCAGCAACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTAAAGGAG
 CAGCACTTCAGGAGTTACATCTTTACACCTTTCTACTGTACACCCCATCCAGACGAAGACAGTCCC
 TGATCACCGACAGCACAGACAGAATCCCTGCTACCAATATGGACTCCAGTCATAGTATAACGCTTCAGC
 TACTGCAAAATCAAACACAGGTTTGGTGGAAAGATTTGGACAGGACAGGACCTCTTTCAATGACAACGCA
 GCAGAGTAATTCTCAGAGCTTCTCTACATCACATGAAGGCTTGGAAAGAAGATAAAGACCATCCAACAACT
 TCTACTCTGACATCAAGCAATAGGAATGATGTCACAGGTGGAAGAAGAGACCCAAATCATTCTGAAGGCT
 CAACTACTTTACTGGAAGGTTATACCTCTCATTACCCACACACGAAGGAAAGCAGGACCTTCATCCCAGT
 GACCTCAGCTAAGACTGGGTCCTTTGGAGTTACTGCAGTTACTGTTGGAGATTCCAATCTAATGTCAAT
 CGTTCCTTATCAGGAGACCAAGACACATCCACCCAGTGGGGGGTCCCATAACACTCATGGATCTGAAT
 CAGATGGACACTCACATGGGAGTCAAGAAGGTGGAGCAAACACAACCTCTGGTCTATAAGGACACCCCA
 AATTCAGAAATGGCTGATCATCTTGGCATCCCTCTTGGCCTTGGCTTTGATTCTTGCAAGTTTGCATTGCA
 GTCAACAGTCAAGAAGGTGTGGCAGAAAGAAAAGCTAGTGATCAACAGTGGCAATGGAGCTGTGGAGG
 ACAGAAAGCCAAGTGGACTCAACGGAGAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGA
 GTCGTGAGAACTCCAGACCAGTTTATGACAGCTGATGAGACAAGGAACCTGCAGAAATGTGGACATGAAG
 ATTGGGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212616 representing NM_001001390
 Red=Cloning site Green=Tags(s)

MDKFWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEADLCKAFNSTLPTMAQMEKAL
 SIGFETCRYGFIEGHVVIPRIHPNSICAAANTGVYILTSNTSQYDTCFNASAPPEEDCTSVTDLPNAFD
 GPITITIVNRDGTTRYVQKGEYRTNPEDIYPSNPTDDDVSSGSSERSSTSGGYIFYTFSTVHIPDEDS
 WITDSTDRIPATNMDSSHSITLQPTANPNTGLVEDLDRTGPLSMTTQQSNSQSFSTSHGLEEDKDHP
 STLSSNRNDVTGRRDPNHSEGSTLLLEGYTSHPHTKESRTFIPVTSAKTGSFVTAVTGDSNSNVN
 RSLSGDQDTFHPSGGSHTTHGSESDGSHSGSQEGGANTTSGPIRTPQIPEWLIILASLLALALILAVCIA
 VNSRRRCGQKKLVINSGNGAVEDRKPSGLNGEASKSQEMVHLVNKESSETPDQFMTADETRNLQNVDMK
 IGV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001001390

ORF Size: 1479 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_001001390.2](#)

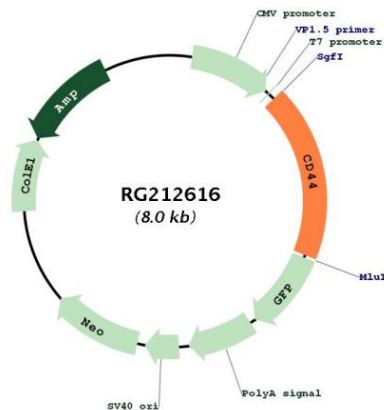
RefSeq Size: 5001 bp
 RefSeq ORF: 1482 bp
 Locus ID: 960
 UniProt ID: [P16070](#)
 Cytogenetics: 11p13

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: 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 RG212616