

Product datasheet for **RG221820**

CD44 (NM_001001391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD44 (NM_001001391) 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)
ORF Nucleotide Sequence:	>RG221820 representing NM_001001391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAGTTTTGGTGGCAGCAGCCTGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGATCGATT
TGAATATAACCTGCCGCTTTCAGGTGTATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGAC
GGAGGCCGCTGACCTCTGCAAGGCTTTC AATAGCACCTTGCCACAATGGCCAGATGGAGAAAGCTCTG
AGCATCGGATTTGAGACCTGCAGGTATGGGTTCATAGAAGGGCACGTGGTGATCCCGGATCCACCCCA
ACTCCATCTGTGCAGAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCAGTATGACACATA
TTGCTTCAATGCTTCAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCAATGCCTTTGAT
GGACCAATTACCAATACTATTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGA
ATCCTGAAGACATCTACCCAGCAACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTGAAAGGAG
CAGCACTTCAGGAGGTTACATCTTTACACCTTTTCTACTGTACACCCCATCCAGACGAAGACAGTCCC
TGGATCACCGACAGCACAGACAATCCCTGCTACCAGAGACCAAGACACATTCCACCCAGTGGGGGT
CCCATACCACTCATGGATCTGAATCAGATGGACTCACATGGGAGTCAAGAAGTGGAGCAAACAAC
CTCTGGTCTATAAAGACACCCCAAATTCAGAATGGCTGATCATCTTGGCATCCCTCTTGGCCTGGCT
TTGATTTGCAGTTTGCATTGCAGTCAACAGTCAAGAAGGTGTGGCAGAAGAAAAAGCTAGTGATCA
ACAGTGGCAATGGAGCTGTGGAGGACAGAAAGCCAAGTGGACTCAACGGAGAGGCCAGCAAGTCTCAGGA
AATGGTGCATTTGGTGAACAAGGAGTCGTGAGAACTCCAGACCAGTTTATGACAGCTGATGAGACAAGG
AACCTGCAGAATGTGGACATGAAGATTGGGGTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221820 representing NM_001001391
 Red=Cloning site Green=Tags(s)

MDKFWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKAL
 SIGFETCRYGFIIEGHVVIPRIHPNSICAAANTGVYILTSNTSQYDYCFNASAPPEEDCTSVTDLPNAFD
 GPITITIVNRDGTRYVQKGEYRTNPEDIYPSNPTDDVSSGSSSERSSTSGGYIFYTFSTVHPIDEDSP
 WITDSTDRIPATRDQDTFHPSGGSHHTHGSESDGSHSGSQEGGANTTSGPIRTPQIPEWLIILASLLALA
 LILAVCIAVNSRRRCGQKKLVINSNGAVEDRKPSSLNGEASKSQEMVHLVNKESSETPDQFMTADETR
 NLQNVDMKIGV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001391

ORF Size: 1083 bp

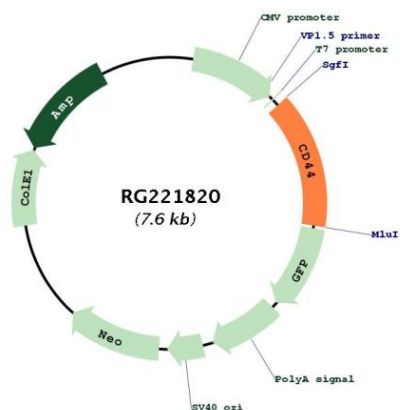
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_001001391.2
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>

Product images:



Circular map for RG221820