

Product datasheet for **MC220151**

Cd44 (NM_001177785) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_001177785) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd44
Synonyms:	AU023126; AW121933; AW146109; HERMES; Ly-24; Pgp-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220151 representing NM_001177785
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGACGTTGAGCCTGGCACATCCACATC
AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
TATCTCCCGGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAAATG
AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTCATAGAAGGAAATGTGGTAATCCGA
GGATTCATCCCAACGCTATCTGTGCAGCCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC
CCTACTATGACACATATTGCTTCAATGCCTCAGCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
CCCAATTCCTTCGATGGACCGGTTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG
GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
GATCAGGATGACTCCTTCTTATCCGGAGCACCTTGGCCACCATTGCAAGTACTCCACGGGTTTCTGCC
GCACAGAAGACAACCAGGACTGGACCCAGTGGAAAGCCAAACCATTCAAACCCAGAAGTACTACTCCAGAC
AACCACCAGGATGGCTGATATAGACAGAATCAGCACAGTGTCTATGGAGAAAAATGGACCCCGGAACCA
CAGCCTCCTTTCAATAACCATGAGTATCAGGATGAAGAGGAGACCCACATGCTACAAGCACAACCTCTA
ATAGTACAGCAGAAGCAGCAGCTACCCAGCAGGAGACGTGGTTTTCAGAACGGATGGCAGGGGAAGAACC
CCCTACCCCAAGTGAAGACTCCCATGTGACAGAAGGGACAACCTGCTTCGGCCACAACAACCATCCAAGT
CAAAGAATAACAACACAGAGTCAAGAGGATGTTTCCTGGACAGATTTCTTCGACCCAATCTCACATCCAA
TGGGACAAGGTCATCAAACAGAAAGCAAGGATACAGACTCCAGTCATAGTACAACCTTCAGCCTACTG
AGCTCCAATACCCATTTGGTGGAAAGACTTGAACAGGACAGGACCACTTTCAGTGACAACCTCCACAGAT
CATTCTCAGAACTTCTCTACATTACATGGAGAGCCGGAAGAAGACGAAAACCATCCAACAACCTTCTATTC
TGCCATCTAGCACTAAGAGCGGCCTAAAGATGCAAGAAGAGGTGGAAAGTCTTCCACAGATACAACCTAC
TTCTGTAGAAGGCTACACCTTTCAATACCCAGACACAATGGAAAAATGGGACTCTCTTCCAGTGACCCCT
GCTAAAACCTGAGGCTTTTGGAGAACTGAAGTACTCTTGTACTGACTCCAACGTTAATGTTGATGGCT
CCTTACCAGGAGATCGAGACTCATCCAAGGACTCCAGGGGAGTCCCGCACTGTGACTCATGGATCCGA
ATTAGCTGGACACTCAAGTGCGAACCAGGACAGTGGAGTGACCACAACCTCTGGTCTATGAGGAGACCT
CAGATTCCAGAATGGCTCATCATCTTGGCATCTCTCCTGGCACTGGCTCTGATTCTTGCCGTCTGCATCG
CGGTCAATAGTAGGAGAAGGTGTGGGCAGAAGAAAAGCTGGTGATCAACGGTGGCAATGGGACGGTGG
AGACAGGAAACCCAGTGAGCTCAACGGGAGGCCAGCAAGTCTCAGGAAATGGTGCAATTTGGTGAACAAG
GAACCATCAGAGACCCCGGACAGTGTATGACAGCTGACGAGACCCGGAATCTGCAGAGTGTGGACATGA
AGATTGGGGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2194_e05.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_001177785

Insert Size: 1974 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](#)

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_001177785.1](#), [NP_001171256.1](#)

RefSeq Size: 5285 bp

RefSeq ORF: 1974 bp

Locus ID: 12505

UniProt ID: [P15379](#)

Cytogenetics: 2 54.13 cM

Gene Summary:

Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:8343954, PubMed:25065622). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) lacks several alternate, in-frame, exons, compared to variant 1. The resulting protein (isoform d) is shorter when it is compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.