

Product datasheet for **MC219268**

Cd44 (NM_001039150) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_001039150) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd44
Synonyms:	AU023126; AW121933; AW146109; HERMES; Ly-24; Pgp-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219268 representing NM_001039150
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGACGTTGAGCCTGGCACATCCACATC
 AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
 TATCTCCCGGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAAATG
 AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTATAGAAGGAAATGTGGTAATCCGA
 GGATTCATCCCAACGCTATCTGTGCAGCCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC
 CCACTATGACACATATTGCTTCAATGCCTCAGCCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
 CCCAATTCCTTCGATGGACCGGTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG
 GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
 CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
 GATCAGGATGACTCCTTCTTATCCGGAGCACCTTGGCCACCCTCCTAATAGTACAGCAGAAGCAGCAG
 CTACCCAGCAGGAGACGTGGTTTTGAGAAGGATGGCAGGGGAAGAACCCCTACCCCAAGTGAAGACTC
 CCATGTGACAGAAGGGACAACCTGCTTCGGCCACAACAACCATCCAAGTCAAAGAATAACAACACAGAGT
 CAAGAGGATGTTTCTGGACAGATTTCTTCGACCCAATCTCACATCCAATGGGACAAGGTCATCAAACAG
 AAAGCAAGGATACAGACTCCAGTCATAGTACAACCTTTCAGCCTACTGCAGCTCCAAATACCCATTTGGT
 GGAAGACTTGAACAGGACAGGACCCTTTCAGTGACAACCTCCACAGAGTCATTCTCAGAACTTCTCTACA
 TTACATGGAGAGCCGGAAGAAGAGTGGAAAGTCTTCCACAGATAACAACCTTCTGTAGAAGGCTACACCTT
 TCAATACCCAGACACAATGGAAAAATGGGACTCTCTTCCAGTGACCCCTGCTAAAACTGAGGTCTTTGGA
 GAAACTGAAGTACTCTTGTACTGACTCCAACGTTAATGTTGATGGCTCCTTACCAGGAGATCGAGACT
 CATCCAAGGACTCCAGGGGGAGTTCGCGCACTGTGACTCATGGATCCGAATTAGCTGGACTCAAGTGC
 GAACCAGGACAGTGGAGTGACCACAACCTTCTGGTCTATGAGGAGACCTCAGATTCAGAATGGCTCATC
 ATCTTGGCATCTCTCTGGCACTGGCTCTGATTCTTCCGCTCTGCATCGCGGTCAATAGTAGGAGAAGGT
 GTGGGCAGAAGAAAAGCTGGTATCAACGGTGGCAATGGGACGGTGAAGACAGGAAACCCAGTGAAGT
 CAACGGGGAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGGAC
 CAGTGTATGACAGCTGACGAGACCCGGAATCTGCAGAGTGTGGACATGAAGATTGGGGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001039150
- Insert Size:** 1743 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:

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_001039150.1](#), [NP_001034239.1](#)

RefSeq Size: 5054 bp

RefSeq ORF: 1743 bp

Locus ID: 12505

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 (2) lacks several alternate, in-frame, exons, compared to variant 1. The resulting protein (isoform b) 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.