

Product datasheet for **MC216949**

Cd44 (NM_001177786) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_001177786) 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: >MC216949 representing NM_001177786
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGACAGTTGAGCCTGGCACATCCACATC
AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
TATCTCCCGACTGAGGCAGCTGACCTCTGCCAGGCTTTCAACAGTACCTTACCCACCATGGACCAAATG
AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTCATAGAAGAAATGTGGTAATCCGA
GGATTCATCCCAACGCTATCTGTGCAGCCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC
CCACTATGACACATATTGCTTCAATGCCTCAGCCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
CCCAATTCCTTCGATGGACCGGTTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG
GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
GATCAGGATGACTCCTTCTTTATCCGGAGCACCTTGGCCACCAATACAGACTCCAGTCATAGTACAACCC
TTCAGCCTACTGCAGCTCCAAATACCCATTTGGTGAAGACTTGAACAGGACAGGACCCTTTCAGTGAC
AACTCCACAGAGTCATTCTCAGAACTTCTCTACATTACATGGAGAGCCGGAAGAAGACGAAAACCATCCA
ACAACCTTCTATTCTGCCATCTAGCACTAAGAGCGGCGCTAAAGATGCAAGAAGAGGTGGAAGTCTCCCA
CAGATAACAACACTTCTGTAGAAGGCTACACCTTTCAATACCCAGACACAATGGAAAATGGGACTCTCTT
CCCAGTGACCCCTGCTAAAACCTGAGGTCTTTGGAGAACTGAAGTACTCTTGTACTGACTCCAACGTT
AATGTTGATGGCTCCTTACCAGGAGATCGAGACTCATCCAAGGACTCCAGGGGAGTCCCGCACTGTGA
CTCATGGATCCGAATTAGCTGGACACTCAAGTGCGAACCAGGACAGTGGAGTGACCACAACCTTCTGGTCC
TATGAGGAGACCTCAGATTCCAGAATGGCTCATCATCTTGGCATCTCTCCTGGCACTGGCTCTGATTCTT
GCCGTCTGCATCGCGGTCAATAGTAGGAGAAGGTGTGGGCAAGAAGAAAAGCTGGTGATCAACGGTGGCA
ATGGGACGGTGAAGACAGGAAACCCAGTGAGCTCAACGGGGAGGCCAGCAAGTCTCAGGAAATGGTGCA
TTTGGTGAACAAGGAACCATCAGAGACCCCGACAGTGTATGACAGCTGACGAGACCCGGAATCTGCAG
AGTGTGGACATGAAGATTGGGGT**TAG**

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001177786

Insert Size: 1497 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_001177786.1](#), [NP_001171257.1](#)

RefSeq Size: 4808 bp

RefSeq ORF: 1497 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 (5) lacks several alternate, in-frame, exons, compared to variant 1. The resulting protein (isoform e) 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.