

## Product datasheet for **MC216250**

### **Cd44 (NM\_001177787) Mouse Untagged Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                                |
| Product Name:      | Cd44 (NM_001177787) 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:** >MC216250 representing NM\_001177787  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGACGTTGAGCCTGGCACATCCACATC  
 AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG  
 TATCTCCCGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAATG  
 AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTCATAGAAGAAATGTGGTAATCCGA  
 GGATTCATCCCAACGCTATCTGTGCAGCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC  
 CCACTATGACACATATTGCTTCAATGCCTCAGCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA  
 CCCAATTCCTTCGATGGACCGTTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG  
 GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC  
 CACCATCGAGAAGAGCACCCAGAAAGCTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA  
 GATCAGGATGACTCCTTCTTTATCCGGAGCACCTTGGCCACCACACAGAGTCATTCTCAGAACTTCTCTA  
 CATTACATGGAGAGCCGGAAGAAGACGAAAACCATCCAACAACCTTCTATTCTGCCATCTAGCACTAAGAG  
 CGGCGCTAAAGATGCAAGAAGAGGTGGAAGTCTTCCACAGATACAACCTTCTGTAGAAGGCTACACC  
 TTTCAATACCCAGACACAATGAAAAATGGGACTCTTCCAGTGACCCCTGCTAAAACCTGAGGTCTTTG  
 GAGAACTGAAGTGACTCTTGCTACTGACTCCAACGTTAATGTTGATGGCTCCTTACCAGGAGATCGAGA  
 CTCATCCAAGGACTCCAGGGGAGTCCCGCACTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGT  
 GCGAACCAGGACAGTGGAGTGACCACAACCTTCTGGTCTATGAGGAGACCTCAGATTCAGAATGGCTCA  
 TCATCTTGGCATCTCCTGGCACTGGCTGATTCTTGGCGTCTGCATCGCGGTCAATAGTAGGAGAAG  
 GTGTGGGCAGAAGAAAAAGCTGGTGATCAACGGTGGCAATGGGACGGTGAAGACAGGAAACCCAGTGAG  
 CTCAACGGGGAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGG  
 ACCAGTGTATGACAGCTGACGAGACCCGGAATCTGCAGAGTGTGGACATGAAGATTGGGGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001177787

**Insert Size:** 1395 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](mailto: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\\_001177787.1](#), [NP\\_001171258.1](#)

**RefSeq Size:** 4706 bp

**RefSeq ORF:** 1395 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 f) 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.