

Product datasheet for **MC221553**

Cd44 (NM_009851) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_009851) 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: >NM_009851.2
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGACGTTGAGCCTGGCAGATCCACATC
 AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
 TATCTCCCGGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAATG
 AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTATAGAAGGAAATGTGGTAATCCGA
 GGATTCATCCCAACGCTATCTGTGCAGCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC
 CCACTATGACACATATTGCTTCAATGCCTCAGCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
 CCCAATTCCTTCGATGGACCGTTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG
 GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
 CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
 GATCAGGATGACTCCTTCTTATCCGGAGCACCTTGGCCACCATTGCCTCAACTGTGCACTCAAAAAGCC
 ATGCAGCAGCTCAGAAACAAAATAATTGGATATGGTCTTGGTTTGGTAATTCACAGTCCACAACCTCAGAC
 TCAGGAGCCACAAACGAGTGCAACTACAGCCTTGATGACCACCCCTGAAACACCACCAAGAGGCAAGAA
 GCCCAGAACTGGTTTTTCATGGTTATTTCAACCATCAGAGTCCAAGAGTCACTTTCATACAACAACGAAGA
 TGCTTGGTACGGAGTCAAATACCAACCCAAACAGGCTGGGAGCCAAATGAGGAAAAATGAAGATGAAACAGA
 CAAATACCCAGTTTTTCTGGATCAGGCATTGATGATGATGAAGATTTTATCTCCAGTACCATTGCAAGT
 ACTCCACGGGTTTTCTGCCGCACAGAAGACAACCAGGACTGGACCCAGTGAAGCCAAACCATCAAACC
 CAGAAGTACTACTCCAGACAACCACAGGATGGCTGATATAGACAGAATCAGCACCAGTGTCTCAGGAGA
 AAATTGGACCCCGAACCACAGCCTCCTTCAATAACCATGAGTATCAGGATGAAGAGGAGACCCACAT
 GCTACAAGCACAACCTCCTAATAGTACAGCAGAAGCAGCAGCTACCCAGCAGGAGAGCTGGTTTTCAGAACG
 GATGGCAGGGGAAGAACCCCTACCCCAAGTGAAGACTCCCATGTGACAGAAGGGACAACCTGCTTCGGC
 CCACAACAACCATCCAAGTCAAAGAATAACAACACAGAGTCAAGAGGATGTTTTCTGGACAGATTTCTTC
 GACCCAATCTCACATCCAATGGGACAAGGTCATCAAACAGAAAGCAAGGATACAGACTCCAGTCAATGTA
 CAACCTTTCAGCCTACTGCAGCTCCAAATACCCATTTGGTGAAGACTTGAACAGGACAGGACCCTTTC
 AGTGACAACCTCCACAGAGTCATTCTCAGAACTTCTACATTACATGGAGAGCCGGAAGAAGACGAAAAC
 CATCCAACAACCTCTATTCTGCCATCTAGCACTAAGAGCGCGCTAAAGATGCAAGAAGAGGTGGAAGTC
 TTCCACAGATACAACCTTCTGTAGAAAGCTACACCTTCAATACCCAGACACAATGGAAAATGGGAC
 TCTCTTCCAGTACCCCTGCTAAAACCTGAGGTCTTGGAGAACTGAAGTACTCTTGCTACTGACTCC
 AACGTTAATGTTGATGGCTCCTTACCAGGAGATCGAGACTCATCCAAGGACTCCAGGGGGAGTCCCGCA
 CTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGTGCGAACCAGGACAGTGGAGTGACCACAACCTC
 TGGTCTATGAGGAGACCTCAGATTCAGAAATGGCTCATCATCTTGGCATCTCTCCTGGCACTGGCTCTG
 ATTCTTGGCGTCTGCATCGCGTCAATAGTAGGAGAAGGTGTGGGCAGAAGAAAAAGCTGGTGATCAACG
 GTGGCAATGGGACGGTGAAGACAGGAAACCCAGTGAAGTCAACGGGGAGGCCAGCAAGTCTCAGGAAAT
 GGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGACAGTGTATGACAGCTGACGAGACCCGGAAT
 CTGCAGAGTGTGGACATGAAGATTGGGGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1414_a07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009851

Insert Size: 2343 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:	<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_009851.2 , NP_033981.2
RefSeq Size:	5654 bp
RefSeq ORF:	2343 bp
Locus ID:	12505
UniProt ID:	P15379
Cytogenetics:	2 54.13 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (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.</p>