

Product datasheet for **MR226609**

Cd44 (NM_009851) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_009851) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226609 representing NM_009851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGCAAGTTGAGCCTGGCAGATCCACATC
 AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
 TATCTCCCGGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAAATG
 AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTATAGAAGGAAATGTGGTAATCCGA
 GGATTCATCCCAACGCTATCTGTGCAGCCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC
 CCACTATGACACATATTGCTTCAATGCCTCAGCCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
 CCCAATTCCTTCGATGGACCGGTTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG
 GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
 CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
 GATCAGGATGACTCCTTCTTATCCGGAGCACCTTGGCCACCATTGCCTCAACTGTGCACTCAAAAAGCC
 ATGCAGCAGCTCAGAAACAAAATAATTGGATATGGTCTTGGTTTGGTAATTCACAGTCCCAACTCAGAC
 TCAGGAGCCACAAACGAGTGCAACTACAGCCTTGATGACCACCCCTGAAACACCACCAAGAGGCAAGAA
 GCCCAGAACTGGTTTTTATGGTTATTTCAACCATCAGAGTCCAAGAGTCACTTTCATACAACAACGAAGA
 TGCTTGGTACGGAGTCAAATACCAACCCAAACAGGCTGGGAGCCAAATGAGGAAAAATGAAGATGAAACAGA
 CAAATACCCAGTTTTTCTGGATCAGGCATTGATGATGATGAAGATTTTATCTCCAGTACCATTGCAAGT
 ACTCCACGGGTTTTCTGCCGCACAGAAGACAACAGGACTGGACCCAGTGAAGCCAAACCATCAAAC
 CAGAAGTACTACTCCAGACAACCAAGGATGGCTGATATAGACAGAATCAGCACCAGTGCATCAGGAGA
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 GCTACAAGCACAACCTCCTAATAGTACAGCAGAAGCAGCAGCTACCCAGCAGGAGAGCTGGTTTCAGAACG
 GATGGCAGGGGAAGAACCCCTACCCCAAGTGAAGACTCCCATGTGACAGAAGGGACAACCTGCTTCGGC
 CCACAACAACCATCCAAGTCAAAGAATAACAACACAGAGTCAAGAGGATGTTTCTGGACAGATTTCTTC
 GACCCAATCTCACATCCAATGGGACAAGGTCATCAAACAGAAAGCAAGGATACAGACTCCAGTCATAGTA
 CAACCCCTCAGCCTACTGCAGCTCCAAATACCCATTTGGTGAAGACTTGAACAGGACAGGACCCTTTC
 AGTGACAACCTCCACAGAGTCATTCTCAGAACTTCTACATTACATGGAGAGCCGGAAGAAGACGAAAAAC
 CATCCAACAACCTTCTATTCTGCCATCTAGCACTAAGAGCGCGCTAAAGATGCAAGAAGAGGTGGAAGTC
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 TCTCTTCCAGTGACCCCTGCTAAAACCTGAGGTCTTTGGAGAACTGAAGTGACTCTTGCTACTGACTCC
 AACGTTAATGTTGATGGCTCCTTACCAGGAGATCGAGACTCATCCAAGGACTCCAGGGGGAGTTCGCCGA
 CTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGTGCGAACCCAGGACAGTGGAGTGACCACAACCTC
 TGGTCCTATGAGGAGACCTCAGATTCCAGAATGGCTCATCATCTTGGCATCTCTCCTGGCACTGGCTCTG
 ATTCTTGGCGTCTGCATCGCGTCAATAGTAGGAGAAGGTGTGGGCAGAAGAAAAAGCTGGTGATCAACG
 GTGGCAATGGGACGGTGAAGACAGGAAACCCAGTGAAGTCAACGGGGAGGCCAGCAAGTCTCAGGAAAT
 GGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGACCAAGTGTATGACAGCTGACGAGACCCGGAAT
 CTGCAGAGTGTGGACATGAAGATTGGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226609 representing NM_009851
Red=Cloning site Green=Tags(s)

MDKFWWHTAWGLCLLQLSLAHPHQIDLNVTCRYAGVFHVEKNGRYSISRTEADLCQAFNSTLPTMDQM
KLALSKGFETCRYGFIENVVIPRIHPNAICAAHNTGVYILVTSNTSHYDTYCFNASAPPEEDCTSVTDL
PNSFDGPVTITIVNRDGTTRYSKKGEYRTHQEDIDASNIIDDDVSSGSTIEKSTPESYILHTYLPTEQPTG
DQDDSFIRSTLATIOASTVHSHAAAQKQNNWIWSWFGNSQSTTQTQEPTTSATTALMTTPETPPKRQE
AQNWFSWLFQPSEKSHLHTTTKMPGTESNTNPTGWEPNEENEDETDKYPSFSGSGIDDEDFISSIAS
TPRVSARTEDNQDWTQWKPNSNPEVLLQTTTRMADIDRISTSAHGENWTPEPQPPFNNHEYQDEEETPH
ATSTTPNSTAEAAATQQETWFQNGWQGNPPTPSEDSHVTEGTTASAHNNHPSQRITTSQSQEDVSWTDFD
DPISHPMGQGHQTESKDTDSSHSTTLQPTAAPNTHLVEDLNRTGPLSVTTPQSHSQNFSTLHGEPEEDEN
HPTTILPSSTKSGAKDARRGGSPLDTTTSVEGYTFQYPTMENGTLFPVTPAKTEVFGETEVTLATDS
NVNVDGSLPGDRDSSKDSRGSSRTVTHGSELAGHSSANQDSGVTTS GPMRRPQIPEWLIILASLLALAL
ILAVCIAVNSRRRCGQKKLVINGNGTVEDRKPSELNGEASKSQEMVHLVNKEPSETPDQCMTADETRN
LQSVDMKIGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

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_009851.2](#), [NP_033981.2](#)

RefSeq Size: 5654 bp

RefSeq ORF: 2343 bp

Locus ID: 12505

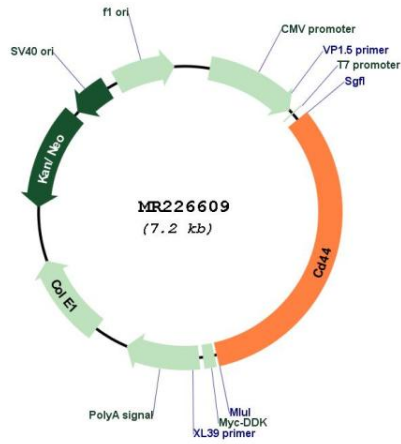
UniProt ID: [P15379](#)

Cytogenetics: 2 54.13 cM

MW: 86.3 kDa

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]

Product images:



Circular map for MR226609