

Product datasheet for **MR226613**

Cd44 (NM_001039150) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Cd44 (NM_001039150) 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) |



[View online »](#)

ORF Nucleotide Sequence:

>MR226613 representing NM_001039150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGACGTTGAGCCTGGCACATCCACATC
 AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
 TATCTCCCGGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAATG
 AAGTTGGCCCTGAGCAAGGGTTTTGAAACATGCAGGTATGGGTTCATAGAAGAAATGTGGTAATCCGA
 GGATTCATCCCAACGCTATCTGTGCAGCCAACACACAGGAGTATATCCTCGTCACGTCCAACACCTC
 CCACTATGACACATATTGCTTCAATGCCTCAGCCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
 CCCAATTCCTTCGATGGACCGGTTACCATAACTATTGTCAACCGTATGGTACTCGCTACAGCAAGAAGG
 GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
 CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
 GATCAGGATGACTCCTTCTTTATCCGGAGCACCTTGGCCACCCTCCTAATAGTACAGCAGAAGCAGCAG
 CTACCCAGCAGGAGACGTGGTTTTGAGAAGGATGGCAGGGGAAGAACCCCTACCCCAAGTGAAGACTC
 CCATGTGACAGAAGGGACAACCTGCTTCGGCCACAACAACCATCCAAGTCAAAGAATAACAACACAGAGT
 CAAGAGGATGTTTCTGGACAGATTTCTTCGACCCAATCTCACATCCAATGGGACAAGGTTCATCAAACAG
 AAAGCAAGGATACAGACTCCAGTCATAGTACAACCTTTCAGCCTACTGCAGCTCCAAATACCCATTTGGT
 GGAAGACTTGAACAGGACAGGACCCTTTCAGTGACAACCTCACAGAGTCATTCTCAGAACTTCTCTACA
 TTACATGGAGAGCCGGAAGAAGACGAAAACCATCCAACAACCTTCTATTCTGCCATCAGCTAAGAGCGG
 GCGCTAAAGATGCAAGAAGAGGTGGAAGTCTTCCACAGATAACAACCTTCTGTAGAAGGCTACACCTT
 TCAATACCCAGACACAATGGAAAATGGGACTCTCTTCCAGTGACCCCTGCTAAAACCTGAGGTCTTTGGA
 GAAACTGAAGTACTCTTGTACTGACTCCAACGTTAATGTTGATGGCTCCTTACCAGGAGATCGAGACT
 CATCCAAGGACTCCAGGGGGAGTTCGCGCACTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGTGC
 GAACCAGGACAGTGGAGTGACCACAACCTTCTGGTCTATGAGGAGACCTCAGATTCAGAATGGCTCATC
 ATCTTGGCATCTCTCTGGCACTGGCTCTGATTCTTCCGCTCTGCATCGCGGTCAATAGTAGGAGAAGGT
 GTGGGCAGAAGAAAAGCTGGTATCAACGGTGGCAATGGGACGGTGAAGACAGGAAACCCAGTGAAGT
 CAACGGGGAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGGAC
 CAGTGTATGACAGCTGACGAGACCCGGAATCTGCAGAGTGTGGACATGAAGATTGGGGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226613 representing NM_001039150
 Red=Cloning site Green=Tags(s)

MDKFWHWTAWGLCLLQLSLAHPHQIDLVNVCRYAGVFHVEKNGRYSISRTEAADLCQAFNSTLPTMDQM
 KLALSKGFETCRYGFIENNVVIPRIHPNAICAAHNTGVYILVTSNTSHYDTYCFNASAPPEEDCTSVTDL
 PNSFDGPVTITIVNRDGRYSKKGEYRTHQEDIDASNIIDDDVSSGSTIEKSTPESYILHTYLPTEQPTG
 DQDDSFIRSTLATTPNSTAEAAATQQETWFQNGWQGNPPTPSEDSHVTEGTTASAHNNHPSQRITTS
 QEDVSWTDFDPI SHPMGQGHQTESKDTDSSHSTTLQPTAAPNTHLVEDLNRTGPLSVTTPQSHSQNFST
 LHGEPEEDENHPTTSILPSSTKSGAKDARRGGSLPTDTTTSVEGYTFQYPDTMENGTLFPVTPAKTEVFG
 ETEVTLATDSNVNVDGSLPGDRDSSKDSRGSRTVTHGSELAGHSSANQDSGVTTTSGPMRRPQIPEWLI
 ILASLLALALILAVCIAVNSRRRCGQKKLVINGNGTVEDRKPSELNGEASKSQEMVHLVNKEPSETPD
 QCMTADETRNLQSVDMKIGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9031_a02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001039150

ORF Size: 1740 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

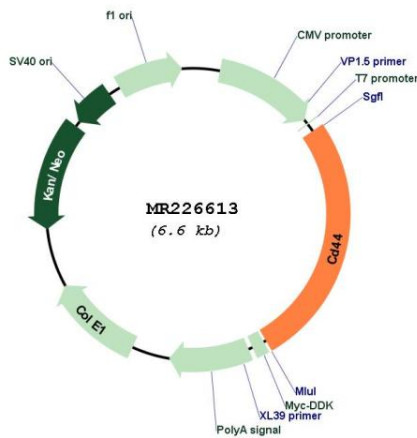
Locus ID: 12505

Cytogenetics: 2 54.13 cM

MW: 63.7 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 MR226613