

Product datasheet for MR226615

Cd44 (NM_001039151) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd44 (NM_001039151) 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)
ORF Nucleotide Sequence: >MR226615 representing NM_001039151
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGCAGTTGAGCCTGGCACATCCACATC
 AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGTATTCCATGTGGAGAAAAATGGCCGCTACAG
 TATCTCCCGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAATG
 AAGTTGGCCCTGAGCAAGGTTTTGAAACATGCAGGTATGGTTTCATAGAAGGAAATGTGGTAATCCGA
 GGATTCATCCCAACGCTATCTGTGCAGCAACCCACACAGGAGTATATATCCTCGTCAGTCCAACACCTC
 CCACTATGACACATATTGCTTCAATGCCTCAGCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
 CCCAATTCCTTCGATGGACCGGTTACCATAACTATTGTCAACCGTGATGGTACTCGCTACAGCAAGAAGG
 GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
 CACCATCGAGAAGAGCACCCAGAAAGCTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
 GATCAGGATGACTCCTTCTTTATCCGGAGCACCTTGCCACCAGAGATCGAGACTCATCAAGGACTCCA
 GGGGGAGTTCCCGCACTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGTGGCAACCCAGGACAGTGG
 AGTGACCACAACCTCTGGTCTATGAGGAGACCTCAGATTCAGAATGGCTCATCATCTTGGCATCTCTC
 CTGGCACTGGCTCTGATTCTTCCGCTCTGCATCGCGGTCATAGTAGGAGAAGGTGTGGCAGAAGAAAA
 AGCTGGTGATCAACGGTGGCAATGGGACGGTGGAAAGACAGGAAACCCAGTGAGCTCAACGGGAGGCCAG
 CAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGGACCAGTGTATGACAGCT
 GACGAGACCCGGAATCTGCAGAGTGTGGACATGAAGATTGGGGTG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR226615 representing NM_001039151
Red=Cloning site Green=Tags(s)

MDKFWHWTAWGLCLLQLSLAHPHQIDLVNVCYAGVVFHVEKNGRYSISRTEADLCQAFNSTLPTMDQM
 KLALSKGFETCRYGFIENVVIPRIHPNAICAAHNTGVYILVTSNTSHYDYCFNASAPPEEDCTSVTL
 PNSFDGPVTITIVNRDGTYSKKGEYRTHQEDIDASNIIDDDVSSGSTIEKSTPESYILHTYLPTEQPTG
 DQDDSSFFIRSTLATRDRDSSKDSRGSSRTVTHGSELAGHSSANQDSGVTTTSGPMRRPQIPEWLIIILASL
 LALALILAVCIAVNSRRRCGQKKKLVINGNGTVEDRKPSELNGEASKSQEMVHLVNKEPSETPDQCMTA
 DETRNLQSVDMKIGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1555_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039151

ORF Size: 1095 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_001039151.1](#), [NP_001034240.1](#)

RefSeq Size: 4409 bp

RefSeq ORF: 1098 bp

Locus ID: 12505

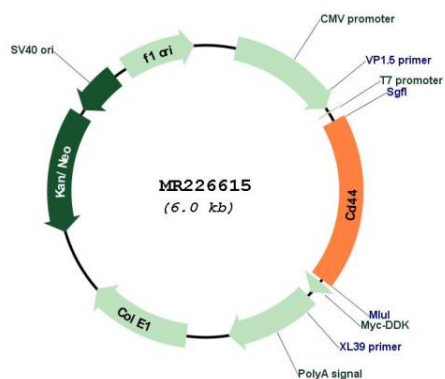
UniProt ID: [P15379](#)

Cytogenetics: 2 54.13 cM

MW: 40.7 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 MR226615