

## Product datasheet for **MR200107**

### Cd24a (NM\_009846) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd24a (NM\_009846) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cd24a  
**Synonyms:** Cd24; HSA; Ly-52; nectadrin  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200107 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGAGCGATGGTGGCCAGGCTAGGGCTGGGGTTGCTGCTTCTGGCACTGCTCTACCCACGCAGA  
TTTACTGCAACCAACATCTGTTGCACCGTTTCCCGGTAACCAGAATATTCTGCTTCCCAAATCCAAG  
TAACGCTACCACCAGAGGGGTGGCAGCTCCCTGCAGTCCACAGCTGGTCTCTGGCTCTCTCTCTCT  
CTTCTACATCTACTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200107 protein sequence  
Red=Cloning site Green=Tags(s)  
MGRAMVARLGLGLLLLALLLPTQIYCNQTSVAPFPGNQNISASPNPSNATRRGGSSLQSTAGLLALSLS  
LLHLYC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_009846

**ORF Size:** 231 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\\_009846.2](#), [NP\\_033976.1](#)

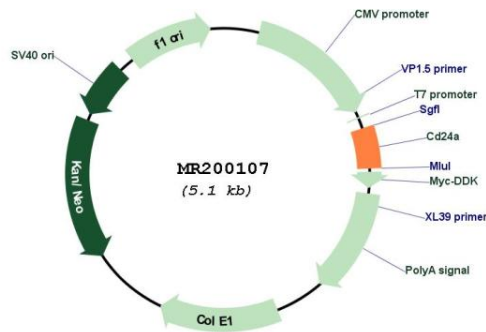
**RefSeq Size:** 1825 bp

**RefSeq ORF:** 231 bp

**Locus ID:** 12484  
**UniProt ID:** [P24807](#)  
**Cytogenetics:** 10 23.01 cM  
**MW:** 7.8 kDa

**Gene Summary:** May have a pivotal role in cell differentiation of different cell types. May have a specific role in early thymocyte development. Signaling could be triggered by the binding of a lectin-like ligand to the CD24 carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Modulates B-cell activation responses (By similarity). In association with SIGLEC10 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90 (PubMed:19264983). Plays a role in the control of autoimmunity (PubMed:20200274). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR200107