

Product datasheet for MR205966

Cd34 (NM_133654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd34 (NM_133654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd34
Synonyms:	AU040960
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205966 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGTCCACAGGGACACGCGCGGGGCTCCTGCTGCCATGGCGCTGGGTAGCTCTCTGCCTGATGA
GTCTGCTGCATCTAAATAACTTGACTTCTGCTACCACGGAGACTTCTACACAAGGAATATCCCCATCAGT
TCCTACCAATGAGTCTGTTGAGGAAAATATCACATCTAGCATCCCTGGAAGTACCAGCCACTACTTGATC
TATCAGGACAGCAGTAAGACCACACCAGCCATCTCAGAGACTATGGTCAACTTTACAGTTACCTCTGGGA
TCCCTTCAGGCTCTGGAAGTCCACACACTTTTTACAACCACAGACTTCCCAACTGGCATACTGCCTAC
TACTTCAGACAGTATTTCCACTTCAGAGATGACCTGGAAGTCCAGCCTGCCATCTATAAATGTTTCTGAT
TATTCGCCTAATAATAGCAGCTTGGAGATGACATCACCCACCGAGCCATATGCTTACACATCATTTCTG
CTCCGAGTGCCATTAAGGGAGAAATCAAATGCTCTGGAATCCGAGAAGTGAAGTTGGCCAGGGTATCTG
CCTGGAACAAAGTGAAGCATCTAGTTGTGAGGAGTTAAGAAGGAAAAGGAGAAGATCTAATTCAAATA
CTGTGTGAAAAGGAGGAGGCTGAGGCTGATGCTGGTGCTAGTGTCTGCTCCCTGCTTCTAGCCAGTCTG
AGGTTAGGCTGAGTGTGCTGATGGTCTTGGCCAATAGCACAGAACTCCAGCAAATCCAGCTTAT
GGAAAAGCACCAATCTGACTTGAGAAAGCTGGGATCCAAAGCTCAATAAACAAGATATCGGGAGCCAC
CAGAGCTATCCCGAAAGACTTTATTGCATTGGTCACTCTGGAGTTCTGCTGGCCATCTGGGCACCA
CTGGTTATTTCTGATGAACCGTCGCAGTTGGAGCCCTACAGGAGAAAGGCTGGGTGAAGACCTTATTA
CACGGAGAATGGTGGAGGCCAGGGCTATAGCTCAGGACCTGGGGCTCCCTGAGACTCAGGAAAAGGCC
AATGTGACCCGAGGGGCTCAGGAGAACGGACCGCCAGGCCACTTCAGAAAACGGCCATTCAGCAAGAC
AACATGTGGTGGCTGACACAGAAGTCT

ACCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205966 protein sequence
 Red=Cloning site Green=Tags(s)

MQVHRDTRAGLLLPWRWVALCLMSLLHLNLTSAATTETSTQGISPSVPTNESVEENITSSIPGSTSHYLI
 YQDSSKTTPAISETMVNFTVTSVIPSGSGTPTFTSQPQTSPTGILPTTSDSISTSEMTWKSLLPSINVSD
 YSPNNSSFEMTSPTPEYAYTSSSAPSAIKGEIKCSGIREVRLAQGICLELSEASSCEEFKKEKGEDLIQI
 LCEKEEAADAGASVCSLLLAQSEVRPECLLMVLANSTELPSKLQLMKQSDLRKLGIQSFNKQDYGSH
 QSYSRKTLLIALVTSGVLLAILGTTGYFLMNRSSWSPPTGERLGEDPYTENGGGQGYSSGPGASPETQGKA
 NVTRGAQENGTGQATSRNGHSARQHVVADTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133654

ORF Size: 1149 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_133654.3](#)

RefSeq Size: 2465 bp

RefSeq ORF: 1149 bp

Locus ID: 12490

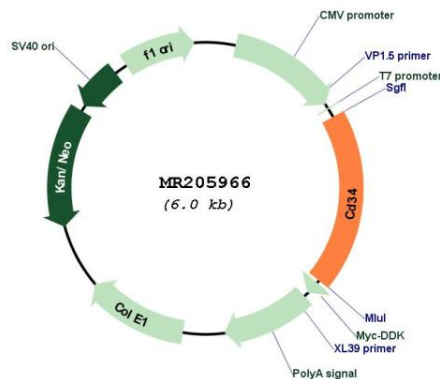
UniProt ID: [Q64314](#)

Cytogenetics: 1 98.38 cM

MW: 41 kDa

Gene Summary: Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to selectins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205966