

Product datasheet for MR227078

Cd34 (NM_001111059) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd34 (NM_001111059) 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: >MR227078 representing NM_001111059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGGTCCACAGGGACACGCGCGGGGCTCCTGCTGCCATGGCGCTGGGTAGCTCTCTGCCTGATGA
 GTCTGCTGCATCTAAATAACTTGACTTCTGCTACCACGGAGACTTCTACACAAGGAATATCCCCATCAGT
 TCCTACCAATGAGTCTGTTGAGGAAAATACACATCTAGCATCCCTGGAAGTACCAGCCACTACTTGATC
 TATCAGGACAGCAGTAAGACCACACCAGCCATCTCAGAGACTATGGTCACTTTACAGTTACCTCTGGGA
 TCCCTTCAGGCTCTGGAAGTCCACACACTTTTTACAACCACAGACTTCCCAACTGGCATACTGCCTAC
 TACTTCAGACAGTATTTCCACTTCAGAGATGACCTGGAAGTCCAGCCTGCCATCTATAAATGTTTCTGAT
 TATTCGCCTAATAATAGCAGCTTGGAGATGACATCACCCACCGAGCCATATGCTTACACATCATTTCTG
 CTCCGAGTGCCATTAAGGGAGAAATCAAATGCTCTGGAATCCGAGAAGTGAGGTTGGCCAGGGTATCTG
 CCTGGAACAAAGTGAAGCATCTAGTTGTGAGGAGTTAAGAAGGAAAAGGAGAAGATCTAATTCAAATA
 CTGTGTGAAAAGGAGGAGGCTGAGGCTGATGCTGGTGCTAGTGTCTGCTCCCTGCTTCTAGCCAGTCTG
 AGGTTAGGCTGAGTGTGCTGATGGTCTGGCCAATAGCACAGAACTCCCAGCAAATCCAGCTTAT
 GGAAAAGCACCAATCTGACTTGAGAAAGCTGGGATCCAAAGCTCAATAAACAAGATATCGGGAGCCAC
 CAGAGCTATCCCGAAAGACTCTTATTGCATTGGTCACCTCTGGAGTTCTGCTGGCCATCTTGGGCACCA
 CTGGTTATTTCTGATGAACCGTCGCAGTTGGAGCCCTACAGGAGAAAGGCTGGAGCTGGAACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227078 representing NM_001111059
Red=Cloning site Green=Tags(s)

MQVHRDTRAGLLLPWRWVALCLMSLLHLNLTSAATTETSTQGISPSVPTNESVEENITSSIPGSTSHYLI
 YQDSSKTTPAISETMVNFVTVSGIPSGSGTPHTFSQPQTSPGTGILPTTSDSISTSEMTWKSSLPSINVSD
 YSPNNSSFEMTSPTPEYAYTSSSAPSAIKGEIKCSGIREVRLAQGICLSEASSCEEFKKEKGEDLIQI
 LCEKEEAADAGASVCSLLLAQSEVRPECLLMVLANSTELPSKLQLMEKHQSDLRKLGIQSFNKQDIGH
 QSYSRKTIALVTSGVLLAILGTTGYFLMNRSSWSPTGERLELEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001111059

ORF Size: 975 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_001111059.1](#), [NP_001104529.1](#)

RefSeq Size: 2621 bp

RefSeq ORF: 978 bp

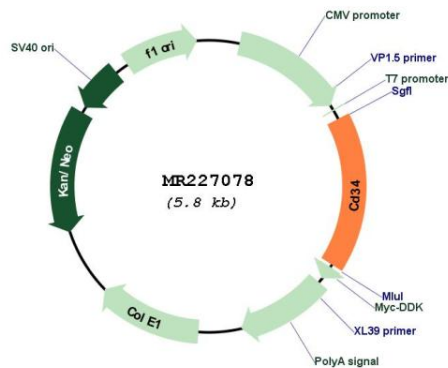
Locus ID: 12490

Cytogenetics: 1 98.38 cM

MW: 35.7 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 MR227078