

Product datasheet for **RG204446**

CD34 (NM_001025109) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD34 (NM_001025109) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204446 representing NM_001025109 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGTCCGCAGGGGCGCGCGCAGGGCCAGGATGCCGCGGGGCTGGACCGCGCTTTGCTTGCTGA
GTTTGCTGCCTTCTGGGTTTCATGAGTCTTGACAACAACGGTACTGCTACCCAGAGTTACCTACCCAGGG
AACATTTTCAAATGTTTCTACAAATGTATCCTACCAAGAACTACAACACCTAGTACCCTTGAAGTACC
AGCCTGCACCCTGTGTCTCAACATGGCAATGAGGCCACAACAACATCACAGAAACGACAGTCAAATTC
CATCTACCTCTGTGATAACCTCAGTTTATGAAACACAACCTTCTGTCCAGTCACAGACCTCTGTAAT
CAGCACAGTGTTCAACACCCAGCCAACGTTTCAACTCCAGAGACAACCTTGAAGCCTAGCCTGTACCT
GGAAATGTTTCAGACCTTCAACCACTAGCACTAGCCTTGCAACATCTCCCACTAAACCTATACATCAT
CTTCTCCTATCCTAAGTGACATCAAGGCAGAAATCAAATGTTTCAGGCATCAGAGAAGTGAATTTGACTCA
GGGCATCTGCCTGGAGCAAAATAAGACCTCCAGCTGTGCGGAGTTTAAGAAGGACAGGGGAGAGGGCCTG
GCCCGAGTGCTGTGTGGGAGGAGCAGGCTGATGCTGATGCTGGGGCCAGGTATGCTCCCTGCTCCTTG
CCCAGTCTGAGGTGAGGCCTCAGTGTCTACTGCTGGTCTTGCCAAACAGAACAGAAATTTCCAGCAA
CCAACCTTATGAAAAGCACCAATCTGACCTGAAAAGCTGGGGATCCTAGATTTCACTGAGCAAGATGTT
GCAAGCCACCAGAGCTATTCCAAAAGACCTGATTGCACTGGTACCTCGGGAGCCTGCTGGCTGTCT
TGGGCATCACTGGCTATTTCTGATGAATCGCCGAGCTGGAGCCCACAGGAGAAAGGCTGGGCGAAGA
CCTTATTACACGAAAACGGTGGAGGCCAGGGCTATAGCTCAGGACCTGGGACCTCCCCTGAGGCTCAG
GGAAAGGCCAGTGTGAACCGAGGGGCTCAGGAAAACGGGACCGGCCAGGCCACCTCCAGAAACGGCCATT
CAGCAAGACAACAGTGGTGGCTGATACCGAATTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204446 representing NM_001025109
Red=Cloning site Green=Tags(s)

MLVRRGARAGPRMPRGWTALCLLSLLPSGFMSLDNNGTATPELPTQGTFSNVSTNVSYQETTTTPSTLGST
 SLHPVVSQHNEATTNITETTvkFTSTSVITSVYGNTNssVQsQTSVISTVFTTPANVSTPETTLKPSLSP
 GNVSDLSTTSTSLATSPTKPYTSSPILSDIKAEIKCSGIREVKLTQGICLEQNKTSsCAEFKkDRGEGL
 ARVLCGEEQADADAGAQCSSLLLAQSEVRPQCCLLLVLANRTEISSKLQLMKKHQSDLKKLGILDFTEQDV
 ASHQSYSQKTLIALVTSGALLAVLGITGYFLMNRRSWSPTGERLGEDPYTYTENGgGQGYSSGPGTSPEAQ
 GKASVNRGAQENGTGQATSRNGHSARQHVVADTEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025109

ORF Size: 1155 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_001025109.2](#)

RefSeq Size: 2621 bp

RefSeq ORF: 1158 bp

Locus ID: 947

UniProt ID: [P28906](#)

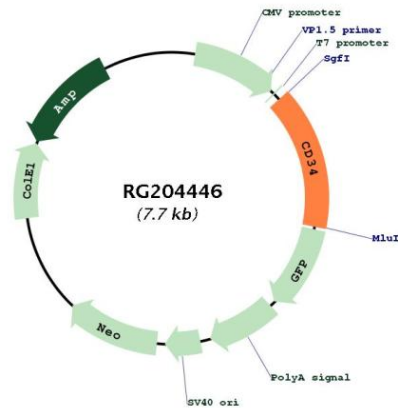
Cytogenetics: 1q32.2

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Hematopoietic cell lineage

Gene Summary: The protein encoded by this gene may play a role in the attachment of stem cells to the bone marrow extracellular matrix or to stromal cells. This single-pass membrane protein is highly glycosylated and phosphorylated by protein kinase C. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG204446