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Product datasheet for RG219940

CD34 (NM_001773) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD34 (NM_001773) 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:

>RG219940 representing NM_001773
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGTCCGCAGGGGCGCGCGCGCAGGGCCCAGGATGCCGCGGGGCTGGACCGCGCTTTGCTTGCTGA
GTTTGCTGCCTTCTGGGTTCATGAGTCTTGACAACAACGGTACTGCTACCCCAGAGTTACCTACCCAGGG
AACATTTTCAAATGTTTCTACAAATGTATCCTACCAAGAAACTACAACACCTAGTACCCTTGGAAGTACC
AGCCTGCACCCTGTGTCTCAACATGGCAATGAGGCCACAACAAACATCACAGAAACGACAGTCAAATTCA
CATCTACCTCTGTGATAACCTCAGTTTATGGAAACACAAACTCTTCTGTCCAGTCACAGACCTCTGTAAT
CAGCACAGTGTTCACCACCCCAGCCAACGTTTCAACTCCAGAGACAACCTTGAAGCCTAGCCTGTCACCT
GGAAATGTTTCAGACCTTTCAACCACTAGCACTAGCCTTGCAACATCTCCCACTAAACCCTATACATCAT
CTTCTCCTATCCTAAGTGACATCAAGGCAGAAATCAAATGTTCAGGCATCAGAGAAGTGAAATTGACTCA
GGGCATCTGCCTGGAGCAAAATAAGACCTCCAGCTGTGCGGAGTTTAAGAAGGACAGGGGAGAGGGCCTG
GCCCGAGTGCTGTGTGGGGAGGAGCAGGCTGATGCTGATGCTGGGGCCCAGGTATGCTCCCTGCTCCTTG
CCCAGTCTGAGGTGAGGCCTCAGTGTCTACTGCTGGTCTTGGCCAACAGAACAGAAATTTCCAGCAAACT
CCAACTTATGAAAAAGCACCAATCTGACCTGAAAAAGCTGGGGATCCTAGATTTCACTGAGCAAGATGTT
GCAAGCCACCAGAGCTATTCCCAAAAGACCCTGATTGCACTGGTCACCTCGGGAGCCCTGCTGGCTGTCT
TGGGCATCACTGGCTATTTCCTGATGAATCGCCGCAGCTGGAGCCCCACAGGAGAAAGGCTGGAGCTGGA
ACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

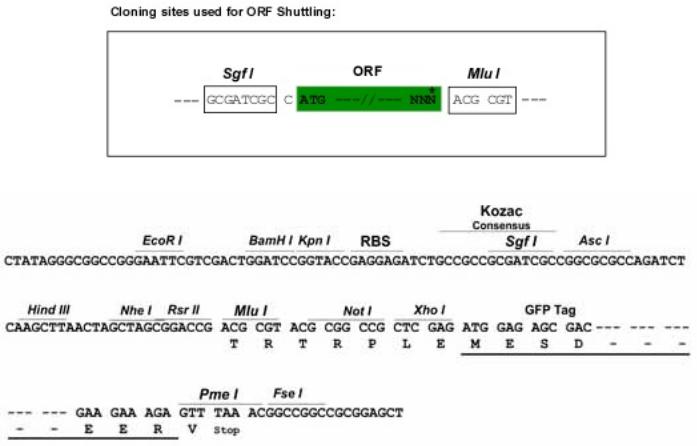
>RG219940 representing NM_001773
Red=Cloning site Green=Tags(s)

MLVRRGARAGPRMPRGWTALCLLSLLPSGFMSLDNNGTATPELPTQGTFSNVSTNVSYQETTTPSTLGST
SLHPVSQHGNEATTNITETTVKFTSTSVITSVYGNTNSSVQSQTSVISTVFTTPANVSTPETTLKPSLSP
GNVSDLSTTSTSLATSPTKPYTSSSPILSDIKAEIKCSGIREVKLTQGICLEQNKTSSCAEFKKDRGEGL
ARVLCGEEQADADAGAQVCSLLLAQSEVRPQCLLLVLANRTEISSKLQLMKKHQSDLKKLGILDFTEQDV
ASHQSYSQKTLIALVTSGALLAVLGITGYFLMNRRSWSPTGERLELEP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001773

ORF Size: 984 bp

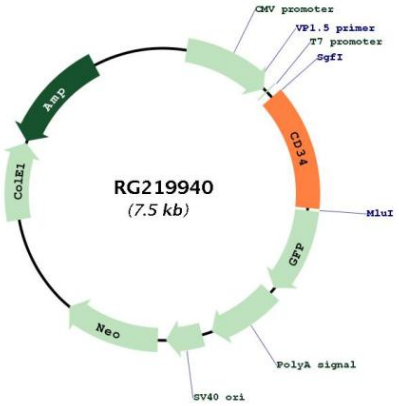
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001773.3
RefSeq Size:	2657 bp
RefSeq ORF:	987 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 RG219940