

Product datasheet for **RG208654**

CD31 (PECAM1) (NM_000442) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD31 (PECAM1) (NM_000442) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD31
Synonyms:	CD31; CD31/EndoCAM; endoCAM; GPIIA'; PECA1; PECAM-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG208654 representing NM_000442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCCGAGGTGGGCCAAGGGGCCACGATGTGGCTTGGAGTCTGCTGACCCTTCTGCTCTGTTCAA
 GCCTTGAGGGTCAAGAAAACCTTTTCACAATCAACAGTGTGACATGAAGAGCCTGCCGGACTGGACGGT
 GCAAAATGGGAAGAACCTGACCCTGCAGTGCTTCGCGGATGTCAGCACCCCTCTCACGTCAAGCCTCAG
 CACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAACATCTCCTCCATGAAGAGCACAGAGAGTT
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 GAAAACCACTGCAGAGTACCAGGTGTTGGTGGAAAGGAGTGCCAGTCCCAGGGTGACACTGGACAAGAAA
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 CATTCAAGTGACTCACCTGGCCCAGGAGTTCCAGAAATCATAATTCAGAAGGACAAGGCGATTGTGGCC
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 AAGCAGATGCCAGTGGAAATGTCCAGGCCAGCAGTACCACTTCTGAACTCCAACAACGAGAAAATGTCAG
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 CACAAAGATCTAGGAAAGAAGGACACAGAGACAGTGTACAGTGAAGTCCGGAAGCTGTCCCTGATGCC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

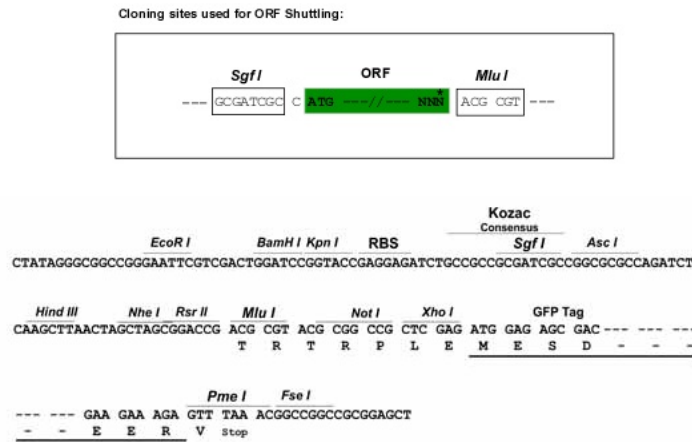
Protein Sequence: >RG208654 representing NM_000442
 Red=Cloning site Green=Tags(s)

MQPRWAQGATMWLVLLTLLLCSSLEGQENSFTINSVDMKSLPDWTVQNGKNTLQCFADVSTTSHVKPQ
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 EAIQGGIVRVNCSVPEEKAPIHFTEIKLELNEKMVCLKREKNSRDQNFVILEFPVEEQDRVLSFRCQARI
 ISGIHQMTSESTKSELVTVTESFSTPKFHI SPTGMIMEGAQLHIKCTIQVTHLAQEFPEI I IQDKAIVA
 HNRHGNKAVYSSVMAMVEHSGNYTCKVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSCSIP
 GAPPANFTIQKEDTIVSQTDFTKIASKSDSGTYICTAGIDKVVKSNVTQIVVCEMLSQPRISYDAQFE
 VIKQGTIEVRCESISGLTLPISYQLLKT SKVLENSTKNSNDPAVFKDNPTEDVEYQC VADNCHSHAKMLSE
 VLRVKVIAPVDEVQISILSSKVVESGEDIVLQCAVNEGSGPITYK FYREKEGKPFYQMTSNATQAFWTKQ
 KANKEQEGEYYCTAFNRANHASSVPRSKILTVRVILAPWKKGLI AVVIIGV I IALLIIAAKCYFLRKAKA
 KQMPVEMSRPAVPLLSNNNEKMSDPNMEANSHYGHNDVGNHAMKPINDNKEPLNSDVQYTEVQVSSAES
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

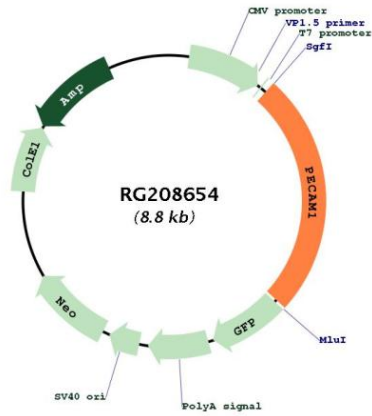


ACCN: NM_000442

ORF Size: 2214 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_000442.2, NP_000433.2</p>
RefSeq Size:	<p>3754 bp</p>
RefSeq ORF:	<p>2217 bp</p>
Locus ID:	<p>5175</p>
UniProt ID:	<p>P16284</p>
Cytogenetics:	<p>17q23.3</p>
Domains:	<p>ig, IGc2, IG</p>
Protein Families:	<p>Druggable Genome, ES Cell Differentiation/IPS, Transmembrane</p>
Protein Pathways:	<p>Cell adhesion molecules (CAMs), Leukocyte transendothelial migration</p>
Gene Summary:	<p>The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]</p>

Product images:



Circular map for RG208654