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Product datasheet for RC206597

CD42a (GP9) (NM_000174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD42a (GP9) (NM_000174) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD42a
Synonyms:	CD42a; GPIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206597 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGCCTGGGGAGCCCTGTTCCTGCTCTGGGCCACAGCAGAGGCCACCAAGGACTGCCCCAGCCCAT
GTACCTGCCGCGCCCTGGAAACCATGGGGCTGTGGGTGGACTGCAGGGGCCACGGACTCACGGCCCTGCC
TGCCCTGCCGGCCCGCACCCGCCACCTTCTGCTGGCCAACAACAGCCTTCAGTCCGTGCCCCCGGGAGCC
TTTGACCACCTGCCCCAGCTGCAGACCCTCGATGTGACGCAGAACCCCTGGCACTGTGACTGCAGCCTCA
CCTATCTGCGCCTCTGGCTGGAGGACCGCACGCCCGAGGCCCTGCTGCAGGTCCGCTGTGCCAGCCCCAG
CCTCGCTGCCCATGGCCCGCTGGGCCGGCTGACAGGCTACCAGCTGGGCAGCTGTGGCTGGCAGCTGCAG
GCGTCCTGGGTGCGCCCGGGGGTCTTGTGGGACGTGGCGCTGGTCACCGTGGCCGCGCTGGGCCTGGCTC
TTCTGGCTGGCCTGCTGTGTGCCACCACAGAGGCCCTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206597 protein sequence
Red=Cloning site Green=Tags(s)

MPAWGALFLLWATAEATKDCPSPCTCRALETMGLWVDCRGHGLTALPALPARTRHLLLANNSLQSVPPGA
FDHLPQLQTLDVTQNPWHCDCSLTYLRLWLEDRTPEALLQVRCASPSLAAHGPLGRLTGYQLGSCGWQLQ
ASWVRPGVLWDVALVTVAALGLALLAGLLCATTEALD

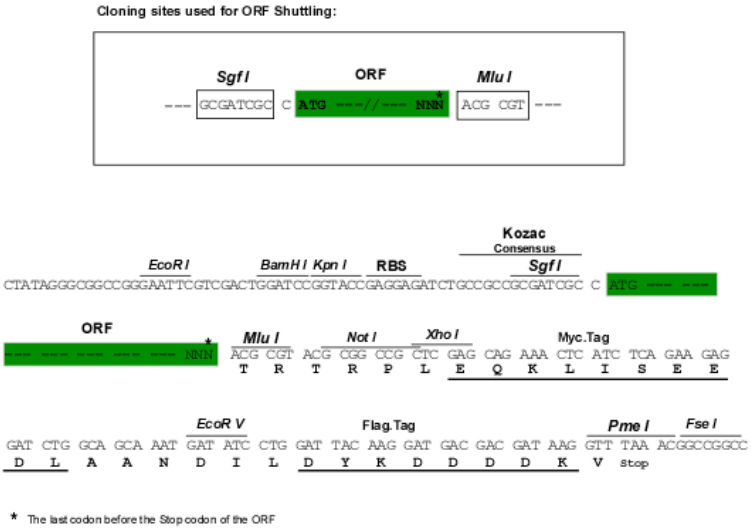
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6328_h05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000174

ORF Size: 531 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_000174.5

RefSeq Size: 911 bp

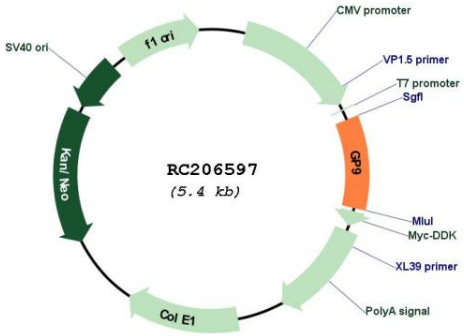
RefSeq ORF: 534 bp

Locus ID: 2815

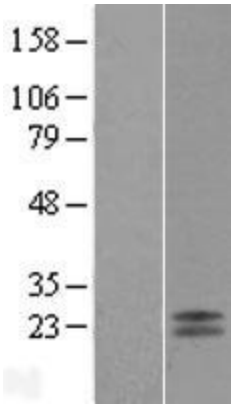
UniProt ID: P14770

Cytogenetics:	3q21.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ECM-receptor interaction, Hematopoietic cell lineage
MW:	19.1 kDa
Gene Summary:	This gene encodes a small membrane glycoprotein found on the surface of human platelets. It forms a 1-to-1 noncovalent complex with glycoprotein Ib, a platelet surface membrane glycoprotein complex that functions as a receptor for von Willebrand factor. The complete receptor complex includes noncovalent association of the alpha and beta subunits with the protein encoded by this gene and platelet glycoprotein V. Defects in this gene are a cause of Bernard-Soulier syndrome, also known as giant platelet disease. These patients have unusually large platelets and have a clinical bleeding tendency. [provided by RefSeq, Oct 2008]

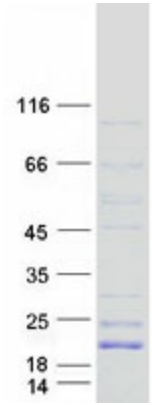
Product images:



Circular map for RC206597



Western blot validation of overexpression lysate (Cat# [LY424886]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206597 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GP9 protein (Cat# [TP306597]). The protein was produced from HEK293T cells transfected with GP9 cDNA clone (Cat# RC206597) using MegaTran 2.0 (Cat# [TT210002]).