

## Product datasheet for **RC218870**

### **CD42d (GP5) (NM\_004488) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CD42d (GP5) (NM_004488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD42d
Synonyms:	CD42d; GPV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC218870 representing NM\_004488  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAGGGGACTCTACTGTGCGCGGTGCTCGGGCTTCTGCGCGCCAGCCCTTCCCCTGTCCGCCAG  
 CTTGCAAGTGTGTCTCCGGGACGCCGCGCAGTGTCTCGGGGGGCGACGTGGCGCGCATCTCCGCGTGGG  
 CCTGCCACCAACCTCACGCACATCCTGCTCTTCGGAATGGGCCGCGCGTCTCGAGAGCCAGAGCTTC  
 AGCGGCATGACCGTCTCGACGCGCTCATGATCTCCGACAGCCACATTTCCGCCGTTGCCCGGACCT  
 TCAGTGACCTGATAAACTGAAAACCTGAGGCTGTGCGCAACAAAATCACGCATCTTCCAGGTGCGCT  
 GCTGGATAAGATGGTCTCTGGAGCAGTTGTTTTGGACCACAATGCGCTAAGGGGCATTGACCAAAAC  
 ATGTTTCAGAACTGGTTAACCTGCAGGAGCTCGCTCTGAACCAGAATCAGCTCGATTTCTTCTGCCA  
 GTCTCTTACGAATCTGGAGAACCTGAAGTTGTTGGATTATCGGAAACAACCTGACCCACCTGCCAA  
 GGGGTTGCTTGGAGCACAGGCTAAGCTCGAGAGACTTCTGCTCCACTCGAACCCTTGTGTCTCTGGAT  
 TCGGGGCTGTTGAACAGCTGGGCGCCCTGACGGAGCTGAGTTCACCCGAAATCACATCCGTTCCATCG  
 CACCCGGGGCTTCGACCGGCTCCCAAACCTCAGTTCTTTGACGCTTTCGAGAAACACCTTGCCTTTCT  
 CCCCTCTGCGCTCTTCTTTCATTGCGACAATCTGACTCTGTTGACTCTGTTGAGAACCCGCTGGCAGAG  
 CTCCCGGGGGTCTCTTCGGGGAGATGGGGGCGCTGCAGGAGCTGTGGCTGAACCGCACCCAGCTGCGCA  
 CCCTGCCCGCGCGCCCTTCGCAACCTGAGCCGCTGCGGTACTTAGGGGTGACTCTGAGCCCGCGGCT  
 GAGCGCGCTTCCGAGGGCGCCTTCCAGGGCTTGGCGAGCTCCAGGTGCTCGCCTGCACTCCAACGGC  
 CTGACCGCCCTCCCGACGGCTTGCTGCGCGCCTCGCAAGCTGCGCCAGGTGTCTTGCCTGCGCCGAACA  
 GGCTGCGCGCCCTGCCCGTGCCTCTTCGCAATCTCAGCAGCTGGAGAGCTCCAGCTCGACCACAA  
 CCAGCTGGAGACCCTGCCTGGCGAGCTGTTGGGGCTCTGCCCGGCTGACGGAGGTCTGTTGGGGCAC  
 AACTCCTGGCGCTGCGACTGTGGCTGGGGCCTTCTGGGGTGCTGCGGCAGCAGCTAGGCTCGTGG  
 GCGGGGAAGAGCCCCACGGTGCAGGCGCTGGGGCGCAGCCGGCTGCCGCTCTGGGCCCTGCCGGG  
 GGGTGACGCGAGTGCCCGGGCCCCGGGGCCCTCCCGCCCGCTGCGGACAGCTCTCGGAAGCC  
 CCTGTCCACCCAGCCTTGGCTCCCAACAGCTCAGAACCCTGGGTGTGGGCCAGCCGGTGACACGGGCA  
 AAGGTCAAGATCATAGTCGTTCTGGGGTTTTATTTCTGCTTTAGCTGTTAGGCCATGATACCGT  
 GATCATCGTGTGCTATGATTAATAATGGCAACTCTTCGAAATTAATCAGAGAGAGCCCTTGGG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218870 representing NM\_004488  
 Red=Cloning site Green=Tags(s)

MLRGTLLCAVLGLLRAQPFPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGMGRGVLQSQSF  
 SGMTVLQRLMISDSHISAVAPGTFSDLIKLKTLLRLSRNKITHLPGALLDKMVLLEQLFDHNLRGIDQN  
 MFQKLVNLQELALNQQLDFLPASLFTNLENLKLDDL SGNLTHLPKGLLGAQAKLERLLHSNRLVSLD  
 SGLLSNLGALTELQFHRNHRSIAPGAFDRLPNLSSLTL SRHLAFLPSALFLHSHNL TLLTLFENPLAE  
 LPGVLFEMGGLQELWLNRTQLRTL PAAAFRNLSRLRYLGVTLSPLSALPQGAQGLGELQVLALHSNG  
 LTALPDGLLRGLKLRQVSLRRNLRALPRALFRNLSSLESVQLDHNQLETLPGDVFGALPRLTEVLLGH  
 NSWRCDCGLGPFLGWLRLGLVGGEPPRCAGPGAAGLPLWALPGDAECPGPRGPPRPAADSSSEA  
 PVHPALAPNSSEPWWAQPVTGKGQDHSPFWGFYFLLAVQAMITVIIVFAMIKIGQLFRKLIRERALG

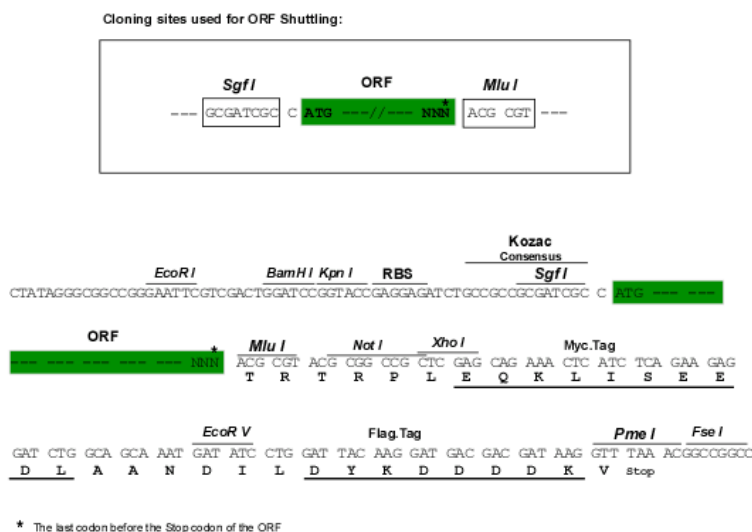
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8008\\_b04.zip](https://cdn.origene.com/chromatograms/mk8008_b04.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_004488

**ORF Size:** 1680 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

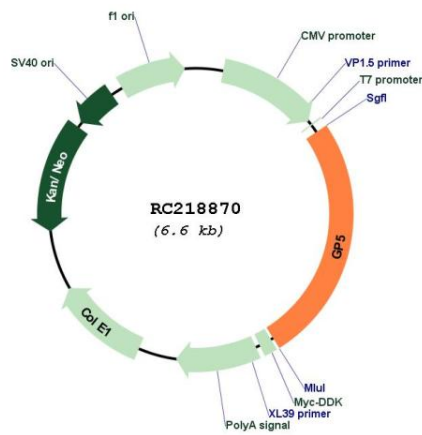
**Reconstitution Method:**

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.

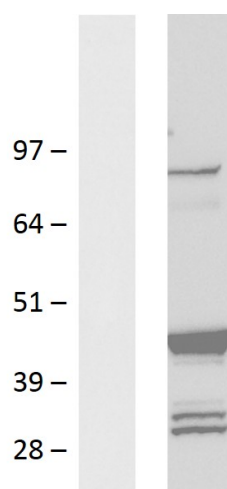
**RefSeq:** [NM\\_004488.1](#), [NP\\_004479.1](#)

RefSeq Size:	5207 bp
RefSeq ORF:	1683 bp
Locus ID:	2814
UniProt ID:	<a href="#">P40197</a>
Cytogenetics:	3q29
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ECM-receptor interaction, Hematopoietic cell lineage
MW:	60.8 kDa
Gene Summary:	Human platelet glycoprotein V (GP5) is a part of the Ib-V-IX system of surface glycoproteins that constitute the receptor for von Willebrand factor (VWF; MIM 613160) and mediate the adhesion of platelets to injured vascular surfaces in the arterial circulation, a critical initiating event in hemostasis. The main portion of the receptor is a heterodimer composed of 2 polypeptide chains, an alpha chain (GP1BA; MIM 606672) and a beta chain (GP1BB; MIM 138720), that are linked by disulfide bonds. The complete receptor complex includes noncovalent association of the alpha and beta subunits with platelet glycoprotein IX (GP9; MIM 173515) and GP5. Mutations in GP1BA, GP1BB, and GP9 have been shown to cause Bernard-Soulier syndrome (MIM 231200), a bleeding disorder (review by Lopez et al., 1998 [PubMed 9616133]).[supplied by OMIM, Nov 2010]

## Product images:



Circular map for RC218870



Western blot validation of overexpression lysate (Cat# [LY417966]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218870 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).