

Product datasheet for **RG218870**

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:	TurboGFP
Symbol:	GP5
Synonyms:	CD42d; GPV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218870 representing NM_004488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGGGGGACTCTACTGTGCGCGGTGCTCGGGCTTCTGCGCGCCAGCCCTTCCCCTGTCCGCCAG
 CTTGCAAGTGTGTCTCCGGGACGCCGCGCAGTGTCTCGGGGGCGACGTGGCGCGCATCTCCGCGCTGGG
 CCTGCCACCAACCTCACGCACATCCTGCTCTTCGGAATGGGCCGCGGCTCCTGCAGAGCCAGAGCTTC
 AGCGGCATGACCGTCTGCAGCGCCTCATGATCTCCGACAGCCACATTTCCGCCGTTGCCCCGGCACCT
 TCAGTGACCTGATAAACTGAAAACCTGAGGCTGTGCGCAACAAAATCACGCATCTTCCAGGTGCGCT
 GCTGGATAAGATGGTCTCCTGGAGCAGTTGTTTTGGACCACAATGCGCTAAGGGGCATTGACCAAAAC
 ATGTTTCAGAACTGGTTAACCTGCAGGAGCTCGCTCTGAACCAGAATCAGCTCGATTTCTTCTGCCA
 GTCTTTCACGAATCTGGAGAACCTGAAGTTGTTGGATTATCGGGAAACAACTGACCCACCTGCCAA
 GGGGTTGCTTGGAGCACAGGCTAAGCTCGAGAGACTTCTGCTCCACTCGAACCGCCTTGTGTCTCGGAT
 TCGGGGCTGTTGAACAGCCTGGGCGCCCTGACGGAGCTGCAGTTCACCCGAAATCACATCCGTTCCATCG
 CACCCGGGGCCTTCGACCGGCTCCCAAACCTCAGTTCTTTGACGCTTTCGAGAAACACCTTGCCTTTCT
 CCCCTCTGCGCTCTTCTTATTTCGCACAATCTGACTCTGTTGACTCTGTTTCGAGAACCCGCTGGCAGAG
 CTCCCGGGGGTGTCTTTCGGGGAGATGGGGGCGCTGCAGGAGCTGTGGCTGAACCGCACCCAGCTGCGCA
 CCCTGCCCGCCGCGCCTTCCGCAACCTGAGCCGCTGCGGTACTTAGGGGTGACTCTGAGCCCGCGGCT
 GAGCGCGCTTCCGAGGGCGCCTTCCAGGGCCTTGGCGAGCTCCAGGTGCTCGCCCTGCACTCCAACGGC
 CTGACCGCCCTCCCCGACGGCTTGTGCGCGCCCTCGCAAGCTGCGCCAGGTGTCCCTGCGCCGCAACA
 GGCTGCGCGCCCTGCCCGTGCCTCTTCCGCAATCTCAGCAGCCTGGAGAGCGTCCAGCTCGACCACAA
 CCAGCTGGAGACCTGCCTGGCGACGTGTTGGGGCTCTGCCCGGCTGACGGAGGTCCTGTTGGGGCAC
 AACTCCTGGCGCTGCGACTGTGGCTGGGGCCTTCTGGGGTGGCTGCGGCAGCACCTAGGCTCGTGG
 GCGGGGAAGACCCACCGGTGCGCAGGCGCTGGGGCGCACCGCGCCTGCCGCTCTGGGCCCTGCCGGG
 GGGTGACGCGGAGTGCCCGGGCCCCGGGGCCCGCTCCCGCCCGCTGCGGACAGCTCTCGGAAGCC
 CCTGTCCACCCAGCCTTGGCTCCCAACAGCTCAGAACCCTGGGTGTGGGCCAGCCGGTGACCACGGGCA
 AAGGTCAAGATCATAGTCCGTTCTGGGGTTTTATTTCTGCTTTAGCTGTTTCAGGCCATGATCACCGT
 GATCATCGTGTGCTATGATTAATAATGGCCAACTCTTCGAAAATTAATCAGAGAGAGGCCCTTGGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218870 representing NM_004488
 Red=Cloning site Green=Tags(s)

MLRGTLLCAVLGLLRAQPFPCPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGMGRGVLQSQSF
 SGM TVLQRLMISDSHISAVAPGTFSDLIKLKTLLSRNKITHLPGALLDKMVLLEQLFLDHNLRGIDQN
 MFQKLVNLQELALNQNQLDFLPASLFTNLENLKLKLDL SGNLTHLPKGLLGAQAKLERLLLSNRLLVSLD
 SGLLNSLGALTELQFHRNHRSIAPGAFDRLPNLSSLTL SRNHLAFLPSALFLHSHNLTLTLFENPLAE
 LPGVLFEMGGLQELWLNRTQLRTLPAAAFRLNLSRLRYLVTLSPRLSALPQGAFFQGLGELQVLALHSNG
 LTALPDGLLRGLGKLRQVSLRRNRLRALPRALFRNLSSLESVQLDHNQLETLPGDVFALPRLTEVLLGH
 NSWRCDCGLGPFLLGWLRLGLVGGEEPPRCAGPGAHAGLPLWALPGDAECPGPRGPPRPAADSSSEA
 PVHPALAPNSSEPWWAQPVTGKGDHSPFWGFYFLLAVQAMITVIIIVFAMIKIGQLFRKLIRERALG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_004488
ORF Size:	1680 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:	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:	<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:	NM_004488.1 , NP_004479.1
RefSeq Size:	5207 bp
RefSeq ORF:	1683 bp
Locus ID:	2814
UniProt ID:	P40197
Cytogenetics:	3q29
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ECM-receptor interaction, Hematopoietic cell lineage

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]