

Specifications:

Gene:	hITGB3
Accession:	NP_000203
Insert size:	2380bp
Concentration:	10 μ g at 0.2 μ g/ μ L

hIntegrin β 3 cDNA Plasmid

ITGB3 integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61) [*Homo sapiens* (human)]

Also known as: GT; CD61; GP3A; BDPLT2; GPIIIa; BDPLT16

Summary:

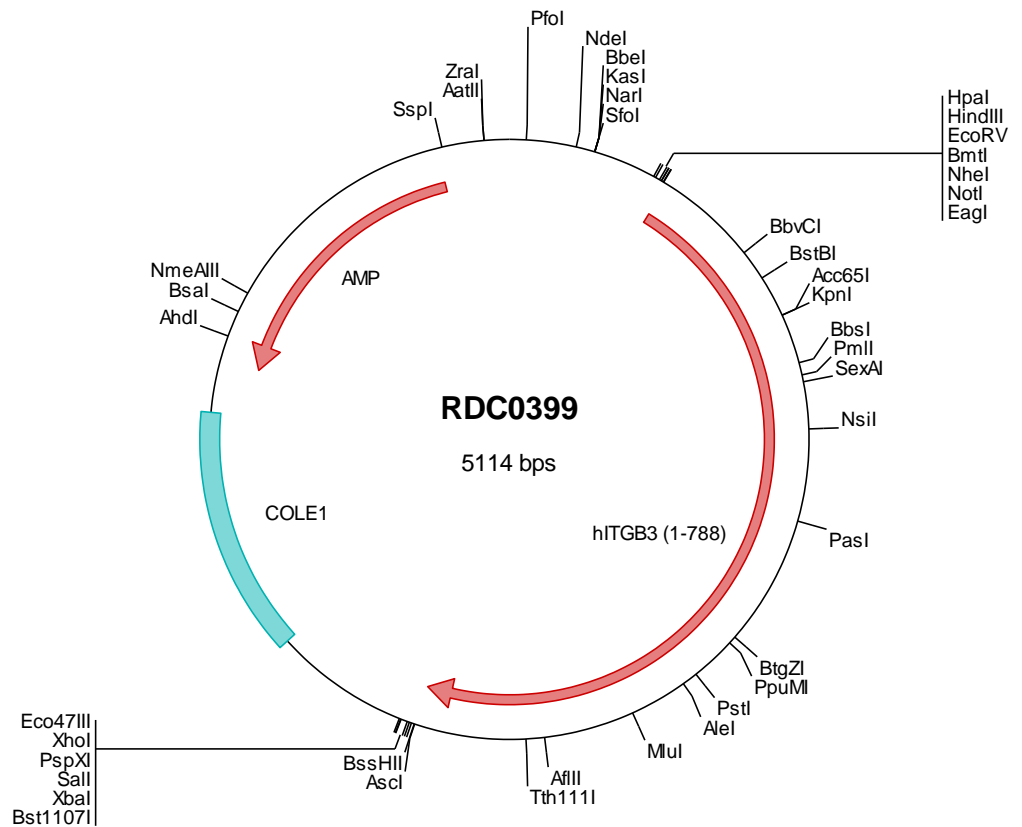
Integrins are integral cell-surface proteins known to participate in cell adhesion as well as cell-surface mediated signaling. They are composed of an alpha chain and a beta chain. ITGB3 is the integrin beta chain that forms a heterodimer with alpha-IIb or alpha-V chains. It is involved in platelet aggregation, which can repair damaged endothelial cells, such as those found in Glanzmann thrombasthenia. Alternatively spliced transcripts encoding different proteins have been described.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0399 Plasmid DNA Sequence

```

1 tcgctgcttt cggatgatgac ggtgaaaacc tetgacacat gcagctccc gagacggta cagcttctct gtaagcggat gccgggagca gacaagccc
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgcattt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccagtc acgactgtgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc gggccgccacc atgagggcgc gaccgcgacc ccgaccctct tgggcgaact tgcctggcgt
501 gggggcgctg ccggggcttg gcgtaggagg gcccaacatc tgtaccacgc gagggtgtgag ctctctgccag cagtgcctgg ctgtgagccc catgtgtgcc
601 tgggtgctctg atgagggcct gcctctgggc tcacctcgtc gtgaactgaa ggagaaatctg ctgaaggata actgtgcccc agaatccatc gaggttccag
701 tgagtggaggc ccgagtaact gaggacaggc cctcagcga caagggtctc ggagacaactg cccaggtcac tcaagtcaag cccagagga ttgcaactcg
801 gctcggccca gatgattcga agaattctc catccaagt gcgcaggtgg aggattacc tgtggaacta tactacttga tggacctgtc ttaactccatg
901 aaggatgatc tgtggagcat ccgaaactg ggtaccacgc tggccaccga gatgcgaaag ctaccagta aactgcggat tggctcggg gaatttggg
1001 acaagcctgt gtcaccatc atgtatatct ccccaccaga ggccctcgaa aaccctctct atgatatgaa gaccacttgc ttgccatgt ttggctacaa
1101 acagctggct acgctaactg accaggtgac ccgcttcaat gaggaagtga agaagcagag tgtgtcacg aaccgagatg acccgaggg ttgctttgat
1201 gccatcatgc aggctaacgt ctgtgatgaa aagattggct ggaggaatga tgcattccac ttgctggtgt ttaccactga tgcacaagct catatagcat
1301 tggacggaag gctggcaggc attgtccagc ctaatgacgg gcagttgcat gttggtagtg acaatcatta ctctgcctcc actaccatgg attatccctc
1401 ttgttctcgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattgag tgagtaact
1501 atcccaggga ccaagcttgg ggttctgtcc atggattcca gcaatgtctc ccagctcaat gttgatgctt atgggaaat ccgttctaaa gtcgagctgg
1601 aagtgcgtga cctccctgaa gaggttgtct tatcctcaa tgccacctgc ctcaacaatg aggtcatccc tggcctcaag tcttgtatgg gactcaagat
1701 tggagacacg gtgagcttca gcaattgagc caaggtgcga gctgtcctcc aggagaagga gaagtccctt accataaagc ccgtgggctt caaggacagc
1801 ctgatcgtcc aggtcaactt tgattgtgac tgtcctgcc agggcccaagc tgaacctaat agccatcgtc gcaacaatgg caatgggacc tttgagtgtg
1901 gggatgcccg ttgtgggctt ggtgtgctgg gatcccagtg tgagtgtca gaggaggact atgcctctc ccagcaggac gagtgcagcc cccggggagg
2001 tcagcccctc tgcagccagc gggcgagtg cctctgtggt caatgtgtct ggcacagcag tgactttggc aagatcacg gcaagtaact cgagtgtgac
2101 gactctctct gtgtccgcta caagggggag atgtgtctcag gccattggca gtcagctgt ggggactgcc tgtgtgactc cgactggacc ggtactact
2201 gcaactgtac cacgctact gacacctgca tgtccagcaa tgggctactg tgcagcggac ggggcaagtg tgaatgtggc agctgtgtct gtatccagcc
2301 gggctcctat ggggacacct gtgagaagtg cccacctgct ccagatgccc gcacctttaa gaaagaatgt gtggagtgtg agaagtttga ccggggagcc
2401 ctacatgacg aaaataactg caaccgttac tgcctgacg agattgagtc agtgaaagag cttaaggaca ctggcaagga tgcagtgaat tgtacctata
2501 agaatgagga tgactgtgct tccagattcc agtactatga agattctagt ggaagtcca tccctgatat ggtagaagag ccagagtgtc ccaagggcc
2601 tgacatcccg gtgctctgc ttcagtgat gggggccatt ctgctcatt gcccttggcc cctgtccttc tggaaactcc tcatcccat ccagaccga
2701 aaagaattcg ctaaatgtga ggaagaaccg gccagagcaa aatgggacac agccacaacc ccaactgtata aagaggccac gtcactctc accaataca
2801 cgtaccgggg cacttaaagg ccgcccagta tactctagag tcgacaccg ggaattctct ctagcctc tctctagctt ggcgtaatca tggctatagc
2901 ttgttctcgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattgag tgagtaact
3001 cacattaatt gcgttgcgct cactccccgc tttccagctg gaaacctctg ctgcccagct gattaatga atcggccaac gcgcggggag aggcggtttg
3101 cgtattgggc gctcttcccg ttcctcctc actgactcgc tgcctcctg ctgctcctg ctgctcctt cccgactcgc taccagctca ctcaaaggc gtaaataggg
3201 tatccacaga atcaggggat aacgcagaaa agaaccatgt agcaaaaagg cagcaaaaagg ccaggaaccg taaaaaggcc tgcgttctgg cgtttttcca
3301 taggctccgc cccctgacg agcatcaca aaatcgacgc tcaagcaaga ggtggcgaaa cccgacagga ctataaagat accaggcttt tccccctgga
3401 agtccctcgt tgcctctcct tgttccagc ctgcccctta cccgatactt cccgctctt ctccctctgg gaagcgtggc gctttctcat gactcacgt
3501 tgaggtatct cagttccggtg tagttcgcttc gctccaaagt gggctgtgtg caagcaacccc cctgtcagcc cgaccgtgc gccttatccg gtaactatc
3601 tcttgagctc aaccctgtaa gacacgactt atcgccactg gcagcagcca ctgttaacag gattagcaga gcgaggtatg taggcgtgtc tacagatct
3701 ttgaagtgtt ggcctaacta cgtctacact agaagaacag tatttggat ctgcctctg ctgagctctg ctgagccag aaaaagatg tttacctctt ggtagctct
3801 gatccggcaa acaaacacc cgtggttagc gtggttttt ttggttcaag cagcagatta cgcgcagaaa aaaagatct caagaagatc ttttagatct
3901 ttctacgggg tctgacgctc agtggaacga aaactcacgt taaggattt ttgctatgag attatcaaaa aggatcttca cctagatcct tttaaattaa
4001 aaatgaagt ttaaatcaat ctaaagtata tatagtaaaa ctgtgtctga cagttaccaa tgcttaatca gtgagcacc tctctcagcc atctgtctat
4101 ttcgttcatc catagttgct tgactcccc tcgtgtagat aactacgata cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagacc
4201 acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaagg cccagcgcag aagtgtctc gcaacttat ccgctccat ccagctctat
4301 aattgttgc gggagactag agtaagtagt tcgccagtt atagtttgg ccaactgtgt gccattgcta caggcatctg ggtgtcagc ctgctgtttg
4401 gtatggcttc attcagctcc ggttcccac gatcaaggc agttacatga tccccatgt tgtgcaaaaa agcgttagc tcttccggtc ctccgatctg
4501 tgtcagaagt aagtggcggc cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatcg taagatgct tctgtgact
4601 ggtgagtagt caaccaagtc atctgagaaa tagtgtatgc ggcgaccgag ttgctttg cccggctcaa tacgggataa tacggcga taccagcaga
4701 ctttaaaagt gctcatcatt ggaacacgct cttcggggc aaaactctca aggatcttac cgctgttag atccagttg atgtaaccca ctcggtcacc
4801 caactgatct tcagcatctt ttactttcac cagcgtttct ggggtgacaa aaacaggaag gcaaaaatg gcaaaaaagg gaataagggc gacacggaaa
4901 tgttgaatac tcatactctt ctttttcaa tattattgaa gcaattatca gggttattgt ctcatgagc gatacatatt tgaatgtatt tagaaaaata
5001 aacaatatg ggttccgccc acatttcccc gaaaagtgc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaaata ggcgtatcac
5101 gaggccctt cgtc

```

> RDC0399 Translated Insert Sequence

```

1 mrarprprpl watvlalgal agvvgvgnpi cttgrvssqc qlavspmcia wcsdealplg sprcdlkenl lkdncapesi efpvsearvl edrplsdkgs
101 gdssqvqvs pqriralrlrp ddsknfsiqv rqvdyppvli yylmdlsysm kddlwsiqnl gtklatgmrk ltsnlrigfg afvdkpvsy myisppeale
201 npcymkttc lpmfyghkvl tldqvtfrfn eevkkgsvsr nrdapeggfd aimqwtvnde kigwrndash llvfttdakt hialdgrlag ivqpnqdqch
301 vgsdnhyas ttmdypslgl mteklsqkni nlifavtenv vnlyqnyse l ipgtvtgvls mdssnvlqli vdaygkirsk velevrldpe elslsfnatc
401 lnnevipgk scmglkigt vsfsieakvr gcpgekeksf tikpvgfkds livqvtfdcd cacqagaepn shrcnngnt fecgvcrcgp gwlgscqecs
501 eedyrpsqqd ecspregpqv csqrgeclg qcvhssdfg kitykcecd dfscvrykge mcsghgqcsc gdclcdsdwt gyyncctirt dtcmssngll
601 csgrgkcecg scvciqpgsy gdtcekcptc pdaactfkkec veckkfdrga lhdentcnry crdeiesvke lkdgtkdavn ctykneddvc vrfqyyedss
701 gksilyvvee pecpkpdiil vllslvmgai lliglaalli wkllitihdr kefakfeeer arakwdtann plykeatstf tniytrgt

```