*h*PDGFB VersaClone cDNA

Catalog Number: RDC3286

Specifications:

Gene:	*h*PDGFB
Accession:	NP_002599.1
Insert size:	739bp
Concentration:	10µg at 0.2µg/µL

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

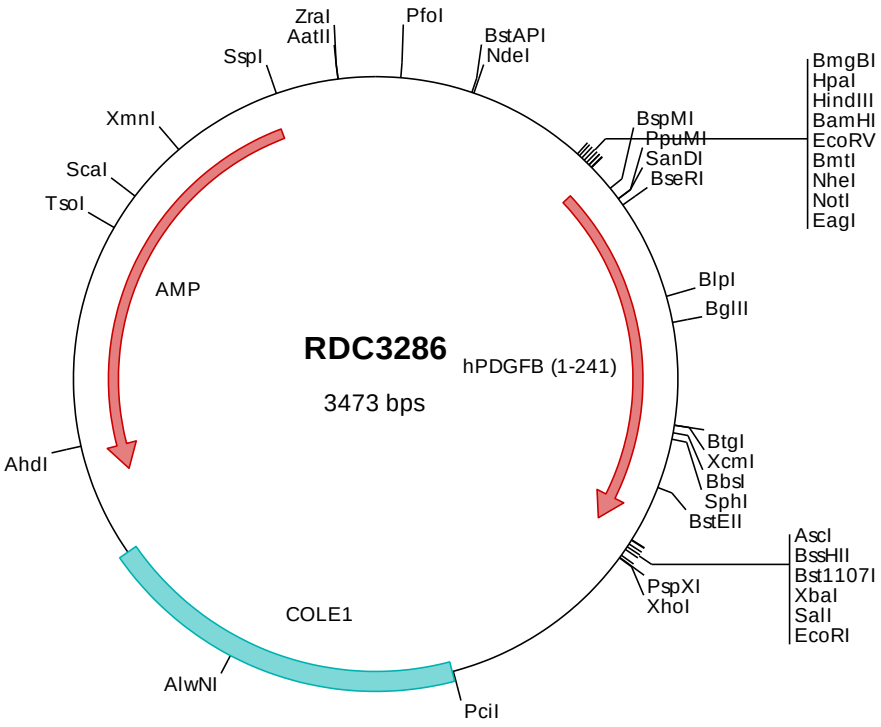
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*PDGFB cDNA Plasmid

PDGFB platelet derived growth factor subunit B [*Homo sapiens* (human)]

Also known as: SIS; SSV; IBGC5; PDGF2; c-sis; PDGF-2

Summary:
PDGFB is a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). It is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in PDGFB are associated with meningioma. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
a bio-techne brand

> RDC3286 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgaatcgct gctgggcgct cttcctgtct ctctgctgct acctgcgtct
 501  ggtcagcgcc gaggggacc ccattcccga ggagctttat gagatgctga gtgaccactc gatccgctcc tttgatgatc tccaacgcct gctgcacgga
 601  gaccccggag aggaagatgg ggccgagttg gacctgaaca tgacccgctc ccactctgga ggcgagctgg agagcttggc tcgtggaaga aggagcctgg
 701  gttccctgac cattgctgag ccggccatga tcgccgagtg caagacgcgc accgaggtgt tcgagatctc ccggcgcctc atagaccgca ccaacgccaa
 801  cttcctggtg tggccgccct gtgtggaggt gcagcgctgc tccggctgct gcaacaaccg caacgtgcag tgccgcccca cccaggtgca gctgcgacct
 901  gtccaggtga gaaagatcga gattgtgcgg aagaagccaa tctttaagaa ggccacggtg acgctggaag accacctggc atgcaagtgt gagacagtgg
1001  cagctgcacg gcctgtgacc cgaagcccgg ggggttccca ggagcagcga gccaaaacgc cccaaactcg ggtgaccatt cggacggtgc gagtccgccg
1101  gccccccaag ggcaagcacc ggaaattcaa gcacacgcat gacaagacgg cactgaagga gacccttgga gcctaaaggc gcgccagtat actctagagt
1201  cgacacccgg ggaattcctc gagcgctcgt ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac
1301  aacatacgag ccggaagcat aaagtgtaaa gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg
1401  gaaacctgtc gtgccagctg cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct
1501  gcgctcggtc gttcggctgc ggcgagcggt atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga
1601  gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct
1701  caagtcagag gtggcgaaac ccgacaggac tataaagata ccaggcgttt ccccctggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac
1801  cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg
1901  ggctgtgtgc acgaaccccc cgttcagccc gaccgctgcg ccttatccgg taactatcgt cttgagtcca acccggtaag acacgactta tcgccactgg
2001  cagcagccac tggtaacagg attagcagag cgaggtatgt aggcggtgct acagagttct tgaagtggtg gcctaactac ggctacacta gaaggacagt
2101  atttggtatc tgcgctctgc tgaagccagt taccttcgga aaaagagttg gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggttttttt
2201  gtttgcaagc agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt
2301  aagggatttt ggtcatgaga ttatcaaaaa ggatcttcac ctagatcctt ttaaattaaa aatgaagttt taaatcaatc taaagtatat atgagtaaac
2401  ttggtctgac agttaccaat gcttaatcag tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata
2501  actacgatac gggagggctt accatctggc cccagtgctg caatgatacc gcgagaccca cgctcaccgg ctccagattt atcagcaata aaccagccag
2601  ccggaagggc cgagcgcaga agtggtcctg caactttatc cgcctccatc cagtctatta attgttgccg ggaagctaga gtaagtagtt cgccagttaa
2701  tagtttgcgc aacgttgttg ccattgctac aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca ttcagctccg gttcccaacg atcaaggcga
2801  gttacatgat cccccatgtt gtgcaaaaaa gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca ctcatggtta
2901  tggcagcact gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg
3001  gcgaccgagt tgctcttgcc cggcgtcaat acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcattg gaaaacgttc ttcggggcga
3101  aaactctcaa ggatcttacc gctgttgaga tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg
3201  ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag
3301  catttatcag ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataggg gttccgcgca catttccccg aaaagtgcca
3401  cctgacgtct aagaaaccat tattatcatg acattaacct ataaaaatag gcgtatcacg aggccctttc gtc
```

> RDC3286 Translated Insert Sequence

```
  1  mnrcwalfls lccylrlvsa egdpipeely emlsdhsirs fddlqrllhg dpgeedgael dlnmtrshsg geleslargr rslgsltiae pamiaecktr
101  tevfeisrrl idrtnanflv wppcvevqrc sgccnnrnvq crptqvqlrp vqvrkieivr kkpifkkatv tledhlackc etvaaarpvt rspggsqeqr
201  aktpqtrvti rtvrvrrppk gkhrkfkhth dktalketlg a
```