*h*Inhibin-βB VersaClone cDNA

Catalog Number: RDC3761

Specifications:

Gene:	*h*INHBB
Accession:	NP_002184.2
Insert size:	1237bp
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.

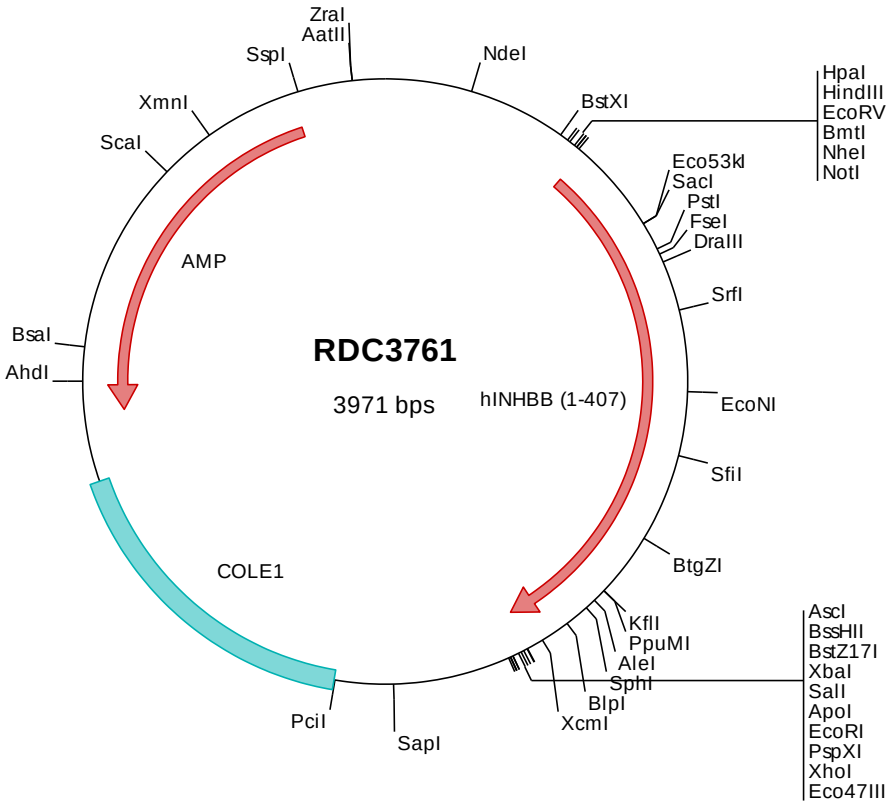
Preparation and Storage

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*Inhibin-βB cDNA Plasmid

INHBB inhibin subunit beta B
[*Homo sapiens* (human)]

Summary:
Inhbb is a member of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Inhbb is proteolytically processed to generate a subunit of the dimeric activin and inhibin protein complexes. These complexes activate and inhibit, respectively, follicle stimulating hormone secretion from the pituitary gland. Homozygous knockout mice for Inhbb exhibit eyelid defects.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

bio-techne®

R&D SYSTEMS

> RDC3761 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 atggatggtc tgcccggtcg ggcgctgggg gccgcctgcc ttctgctgct
 501  ggcggccggc tggctggggc ctgaggcctg gggctcaccc acgcccccgc cgacgcctgc cgcgcagccg ccacccccgc cacccggatc cccgggtggc
 601  tcgcaggaca cctgtacgtc gtgcggcggc ttccggcggc cagaggagct cggccgagtg gacggcgact tcctggaggc ggtgaagcgg cacatcttga
 701  gccgcctgca gatgcggggc cggcccaaca tcacgcacgc cgtgcctaag gccgccatgg tcacggccct gcgcaagctg cacgcgggca aggtgcgcga
 801  ggacggccgc gtggagatcc cgcacctcga cggccacgcc agcccgggcg ccgacggcca ggagcgcgtt tccgaaatca tcagcttcgc cgagacagat
 901  ggcctcgcct cctcccgggt ccgcctatac ttcttcatct ccaacgaagg caaccagaac ctgtttgtgg tccaggccag cctgtggctt tacctgaaac
1001  tcctgcccta cgtcctggag aagggcagcc ggcggaaggt gcgggtcaaa gtgtacttcc aggagcaggg ccacggtgac aggtggaaca tggtggagaa
1101  gagggtggac ctcaagcgca gcggctggca taccttccca ctcacggagg ccatccaggc cttgtttgag cggggcgagc ggcgactcaa cctagacgtg
1201  cagtgtgaca gctgccagga gctggccgtg gtgccggtgt tcgtggaccc aggcgaagag tcgcaccggc cctttgtggt ggtgcaggct cggctgggcg
1301  acagcaggca ccgcattcgc aaaagaggcc tggagtgcga tggccggacc aacctctgtt gcaggcaaca gttcttcatt gacttccgcc tcatcggctg
1401  gaacgactgg atcatagcac ccaccggcta ctacgggaac tactgtgagg gcagctgccc agcctacctg gcaggggtcc ccggctctgc ctcctccttc
1501  cacacggctg tggtgaacca gtaccgcatg cggggtctga accccggcac ggtgaactcc tgctgcattc ccaccaagct gagcaccatg tccatgctgt
1601  acttcgatga tgagtacaac atcgtcaagc gggacgtgcc caacatgatt gtggaggagt gcggctgcgc ctaaaggcgc gccagtatac tctagagtcg
1701  acacccgggg aattcctcga gcgctcgtct ctagcttggc gtaatcatgg tcatagctgt ttcctgtgtg aaattgttat ccgctcacaa ttccacacaa
1801  catacgagcc ggaagcataa agtgtaaagc ctggggtgcc taatgagtga gctaactcac attaattgcg ttgcgctcac tgcccgcttt ccagtcggga
1901  aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct cttccgcttc ctcgctcact gactcgctgc
2001  gctcggtcgt tcggctgcgg cgagcggtat cagctcactc aaaggcggta atacggttat ccacagaatc aggggataac gcaggaaaga acatgtgagc
2101  aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt ttttccatag gctccgcccc cctgacgagc atcacaaaaa tcgacgctca
2201  agtcagaggt ggcgaaaccc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc gctctcctgt tccgaccctg ccgcttaccg
2301  gatacctgtc cgcctttctc ccttcgggaa gcgtggcgct ttctcaatgc tcacgctgta ggtatctcag ttcggtgtag gtcgttcgct ccaagctggg
2401  ctgtgtgcac gaaccccccg ttcagcccga ccgctgcgcc ttatccggta actatcgtct tgagtccaac ccggtaagac acgacttatc gccactggca
2501  gcagccactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagttcttg aagtggtggc ctaactacgg ctacactaga aggacagtat
2601  ttggtatctg cgctctgctg aagccagtta ccttcggaaa aagagttggt agctcttgat ccggcaaaca aaccaccgct ggtagcggtg gtttttttgt
2701  ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggtct gacgctcagt ggaacgaaaa ctcacgttaa
2801  gggattttgg tcatgagatt atcaaaaagg atcttcacct agatcctttt aaattaaaaa tgaagtttta aatcaatcta aagtatatat gagtaaactt
2901  ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctcagcgatc tgtctatttc gttcatccat agttgcctga ctccccgtcg tgtagataac
3001  tacgatacgg gagggcttac catctggccc cagtgctgca atgataccgc gagacccacg ctcaccggct ccagatttat cagcaataaa ccagccagcc
3101  ggaagggccg agcgcagaag tggtcctgca actttatccg cctccatcca gtctattaat tgttgccggg aagctagagt aagtagttcg ccagttaata
3201  gtttgcgcaa cgttgttgcc attgctacag gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat caaggcgagt
3301  tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc cgatcgttgt cagaagtaag ttggccgcag tgttatcact catggttatg
3401  gcagcactgc ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggt gagtactcaa ccaagtcatt ctgagaatag tgtatgcggc
3501  gaccgagttg ctcttgcccg gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgct catcattgga aaacgttctt cggggcgaaa
3601  actctcaagg atcttaccgc tgttgagatc cagttcgatg taacccactc gtgcacccaa ctgatcttca gcatctttta ctttcaccag cgtttctggg
3701  tgagcaaaaa caggaaggca aaatgccgca aaaaagggaa taagggcgac acggaaatgt tgaatactca tactcttcct ttttcaatat tattgaagca
3801  tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag aaaaataaac aaatagggtt tccgcgcaca tttccccgaa aagtgccacc
3901  tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt c
```

> RDC3761 Translated Insert Sequence

```
   1  mdglpgralg aaclllaag wlgpeawgsp tppptpaaqp pppppgspgg sqdtctscgg frrpeelgrv dgdfleavkr hilsrlqmrg rpnithavpk
 101  aamvtalrkl hagkvredgr veiphldgha spgadgqerv seiisfaetd glassrvrly ffisnegnqn lfvvqaslwl ylkllpyvle kgsrrkvrvk
 201  vyfqeqghgd rwnmvekrvd lkrsgwhtfp lteaiqalfe rgerrlnldv qcdscqelav vpvfvdpgee shrpfvvvqa rlgdsrhrir krglecdgrt
 301  nlccrqqffi dfrligwndw iiaptgyygn ycegscpayl agvpgsassf htavvnqyrm rglnpgtvns cciptklstm smlyfddeyn ivkrdvpnmi
 401  veecgca
```