*h*uPA/Urokinase VersaClone cDNA

Catalog Number: RDC3365

Specifications:

Gene:	*h*PLAU
Accession:	NP_002649.2
Insert size:	1309bp
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

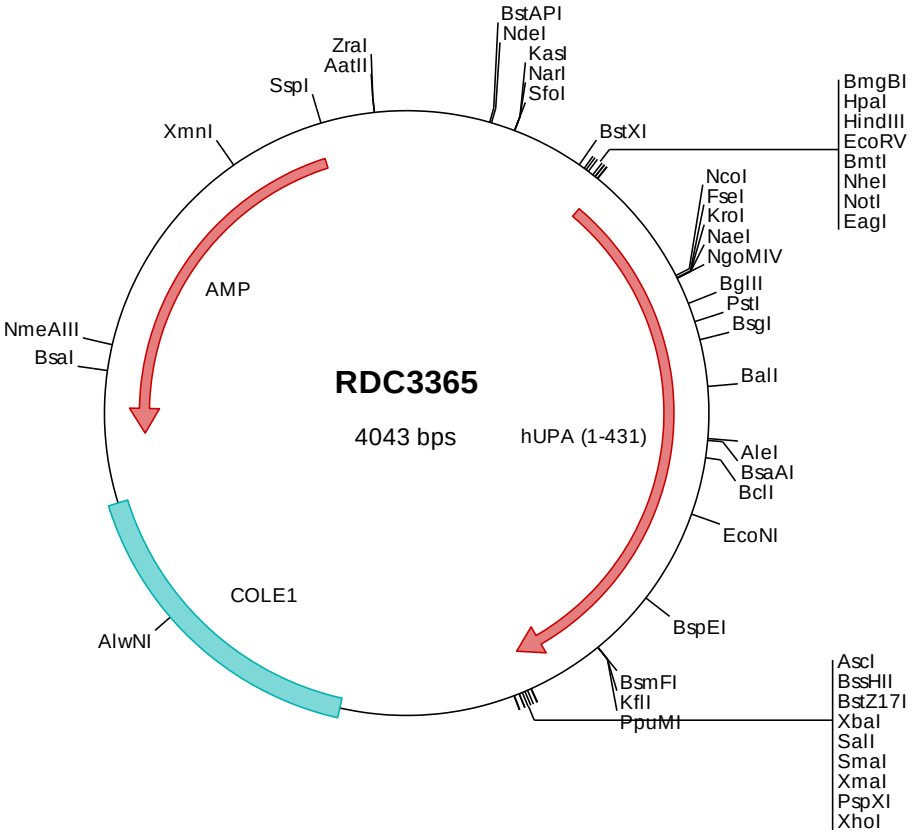
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*uPA/Urokinase cDNA Plasmid

PLAU plasminogen activator, urokinase [*Homo sapiens* (human)]

Also known as: ATF; QPD; UPA; URK; u-PA; BDPLT5

Summary:
uPA is a secreted serine protease that converts plasminogen to plasmin. It is proteolytically processed to generate A and B polypeptide chains. These chains associate via a single disulfide bond to form the catalytically inactive high molecular weight urokinase-type plasminogen activator (HMW-uPA). HMW-uPA can be further processed into the catalytically active low molecular weight urokinase-type plasminogen activator (LMW-uPA). This low molecular weight form does not bind to the urokinase-type plasminogen activator receptor. Mutations in uPA may be associated with Quebec platelet disorder and late-onset Alzheimer's disease. 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

> RDC3365 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 atgagagccc tgctggcgcg actgcttctc tgcgtcctgg tcgtgagcga
 501  ctccaaaggc agcaatgaac ttcatcaagt tccatcgaac tgtgactgtc taaatggagg aacatgtgtg tccaacaagt acttctccaa cattcactgg
 601  tgcaactgcc caaagaaatt cggagggcag cactgtgaaa tagataagtc aaaaacctgc tatgagggga atggtcactt ttaccgagga aaggccagca
 701  ctgacaccat gggccggccc tgcctgccct ggaactctgc cactgtcctt cagcaaacgt accatgccca cagatctgat gctcttcagc tgggcctggg
 801  gaaacataat tactgcagga acccagacaa ccggaggcga ccctggtgct atgtgcaggt gggcctaaag ctgcttgtcc aagagtgcat ggtgcatgac
 901  tgcgcagatg gaaaaaagcc ctcctctcct ccagaagaat taaaatttca gtgtggccaa aagactctga ggccccgctt taagattatt gggggagaat
1001  tcaccaccat cgagaaccag ccctggtttg cggccatcta caggaggcac cgggggggct ctgtcaccta cgtgtgtgga ggcagcctca tcagcccttg
1101  ctgggtgatc agcgccacac actgcttcat tgattaccca aagaaggagg actacatcgt ctacctgggt cgctcaaggc ttaactccaa cacgcaaggg
1201  gagatgaagt ttgaggtgga aaacctcatc ctacacaagg actacagcgc tgacacgctt gctcaccaca acgacattgc cttgctgaag atccgttcca
1301  aggagggcag gtgtgcgcag ccatcccgga ctatacagac catctgcctg ccctcgatgt ataacgatcc ccagtttggc acaagctgtg agatcactgg
1401  ctttggaaaa gagaattcta ccgactatct ctatccggag cagctgaaaa tgactgttgt gaagctgatt tcccaccggg agtgtcagca gccccactac
1501  tacggctctg aagtcaccac caaaatgctg tgtgctgctg acccacagtg gaaaacagat tcctgccagg gagactcagg gggacccctc gtctgttccc
1601  tccaaggccg catgactttg actggaattg tgagctgggg ccgtggatgt gccctgaagg acaagccagg cgtctacacg agagtctcac acttcttacc
1701  ctggatccgc agtcacacca aggaagagaa tggcctggcc ctctaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt
1801  ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa
1901  gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa
2001  tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt
2101  atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt
2201  aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac
2301  tataaagata ccaggcgttt cccccctggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac cggatacctg tccgcctttc tcccttcggg
2401  aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaaccccc cgttcagccc
2501  gaccgctgcg ccttatccgg taactatcgt cttgagtcca acccggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag
2601  cgaggtatgt aggcggtgct acagagttct tgaagtggtg gcctaactac ggctacacta gaaggacagt atttggtatc tgcgctctgc tgaagccagt
2701  taccttcgga aaaagagttg gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggttttttt gtttgcaagc agcagattac gcgcagaaaa
2801  aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa
2901  ggatcttcac ctagatcctt ttaaattaaa aatgaagttt taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag
3001  tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc
3101  cccagtgctg caatgatacc gcgagaccca cgctcaccgg ctccagattt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggtcctg
3201  caactttatc cgcctccatc cagtctatta attgttgccg ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc aacgttgttg ccattgctac
3301  aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa
3401  gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca ctcatggtta tggcagcact gcataattct cttactgtca
3501  tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgctcttgcc cggcgtcaat
3601  acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga
3701  tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg
3801  caaaaaaggg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg
3901  atacatattt gaatgtattt agaaaaataa acaaataggg gttccgcgca catttccccg aaaagtgcca cctgacgtct aagaaaccat tattatcatg
4001  acattaacct ataaaaatag gcgtatcacg aggccctttc gtc
```

> RDC3365 Translated Insert Sequence

```
   1  mrallarlll cvlvvsdskg snelhqvpsn cdclnggtcv snkyfsnihw cncpkkfggq hceidksktc yegnghfyrg kastdtmgrp clpwnsatvl
 101  qqtyhahrsd alqlglgkhn ycrnpdnrrr pwcyvqvglk llvqecmvhd cadgkkpssp peelkfqcgq ktlrprfkii ggefttienq pwfaaiyrrh
 201  rggsvtyvcg gslispcwvi sathcfidyp kkedyivylg rsrlnsntqg emkfevenli lhkdysadtl ahhndiallk irskegrcaq psrtiqticl
 301  psmyndpqfg tsceitgfgk enstdylype qlkmtvvkli shrecqqphy ygsevttkml caadpqwktd scqgdsggpl vcslqgrmtl tgivswgrgc
 401  alkdkpgvyt rvshflpwir shtkeengla l
```