

## Product datasheet for RC227661

### uPA (PLAU) (NM\_001145031) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	uPA (PLAU) (NM_001145031) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	uPA
Synonyms:	ATF; BDPLT5; QPD; u-PA; UPA; URK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227661 representing NM_001145031 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCTTCCATTTGAGAACTAGATACGAACAGGCGAACTGTGACTGTCTAAATGGAGGAACATGTGTG  
CCAACAAGTACTTCTCCAACATTCAGTGGTCACTGCCCAAAGAAATTCGGAGGGCAGCACTGTGAAAT  
AGATAAGTCAAAAACCTGCTATGAGGGGAATGGTCACTTTACCGAGGAAAGGCCAGCACTGACACCATG  
GGCCGGCCCTGCCTGCCCTGGAACCTGCCACTGTCCTTCAGCAAACGTACCATGCCACAGATCTGATG  
CTCTTCAGCTGGCCTGGGAAACATAATTACTGCAGGAACCCAGACAACCGGAGGCGACCTGGTGCTA  
TGTGCAGGTGGGCCTAAAGCCGCTTGCCAAGAGTGCATGGTGCATGACTGCGCAGATGGAAAAAGCCC  
TCCTCTCCTCCAGAAGAATTAATAATTCAGTGTGGCCAAAAGACTCTGAGGCCCGCTTTAAGATTATTG  
GGGGAGAATTCACCACCATCGAGAACCAGCCCTGGTTTGGCGGCACTACAGGAGGCACCGGGGGGCTC  
TGTCACTACGTGTGGAGGCAGCCTCATCAGCCCTTGCTGGGTGATCAGCGCCACACACTGCTTCATT  
GATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTGCTCAAGGCTTAACCTCAACACGCAAGGGG  
AGATGAAGTTTGAGGTGGAAAACCTCATCTACACAAGGACTACAGCGTACACGCTTGCTCACCACAA  
CGACATTGCCTTGCTGAAGATCCGTTCCAAGGAGGGCAGGTGTGCGCAGCCATCCCGACTATACAGACC  
ATCTGCCTGCCCTCGATGTATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCACTGGCTTTGGAAAAG  
AGAATTCTACCGACTATCTCTATCCGGAGCAGCTGAAAAATGACTGTTGTGAAGCTGATTTCCACCGGGA  
GTGTCAGCAGCCCACTACTACGGCTCTGAAGTACCACCAAATGCTGTGTGCTGACCCACAGTGG  
AAAACAGATTCTGCCAGGGAGACTCAGGGGACCCCTCGTCTGTTCCCTCCAAGCCGATGACTTTGA  
CTGGAATTGTGAGCTGGGGCCGTGGATGTGCCCTGAAGGACAAGCCAGGCGTCTACACGAGAGTCTACA  
CTTCTTACCCTGGATCCGCAGTCACACCAAGGAAGAGAATGGCCTGGCCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC227661 representing NM\_001145031  
 Red=Cloning site Green=Tags(s)

MVFHLRTRYEQANCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNGHFYRGKASTDTM  
 GRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPNRRRPWCYVQVGLKPLVQECMVHDCADGKKP  
 SSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTVYVCGGSLISPCWVISATHCFI  
 DYPKKEDYIVYLGSRSLNSNTQGEEMKFEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQ  
 ICLPSMYNDPQFGTSCIEITGFGKENSTDYLYPEQLKMTVVKLIHRECCQPHYYSSEVTTKMLCAADPQW  
 KTDSCQGDSSGGLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHTKENGLAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8058\\_b12.zip](https://cdn.origene.com/chromatograms/mk8058_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001145031

**ORF Size:** 1242 bp

**OTI Disclaimer:** 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](#)

**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:**

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\\_001145031.2](#)

**RefSeq ORF:** 1245 bp

**Locus ID:** 5328

**UniProt ID:** [P00749](#)

**Cytogenetics:** 10q22.2

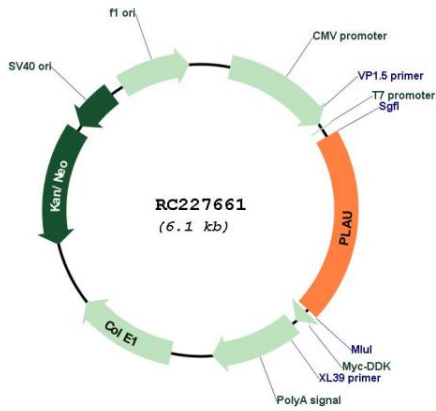
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Protease

**Protein Pathways:** Complement and coagulation cascades

**MW:** 46.7 kDa

**Gene Summary:** This gene encodes a secreted serine protease that converts plasminogen to plasmin. The encoded preproprotein 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 this gene may be associated with Quebec platelet disorder and late-onset Alzheimer's disease. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC227661