OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC118493

uPA (PLAU) (NM_002658) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	uPA (PLAU) (NM_002658) Human Untagged Clone
Tag:	Tag Free
Symbol:	uPA
Synonyms:	ATF; BDPLT5; QPD; u-PA; UPA; URK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene sequence for NM_002658 edited
GAATTCGGCACGAGGGCAGCCCCGGAGCCCGGGCCAGGGTCCACCTGTCCCCGCAGCGCC
GGCTCGCGCCCTCCTGCCGCAGCCACCGAGCCGCCGTCTAGCGCCCCGACCTCGCCACCA
TGAGAGCCCTGCTGGCGCGCCTGCTTCTCTGCGTCCTGGTCGTGAGCGACTCCAAAGGCA
GCAATGAACTTCATCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGT
CCAACAAGTACTTCTCCAACATTCACTGGTGCAACTGCCCAAAGAAATTCGGAGGGCAGC
ACTGTGAAATAGATAAGTCAAAAACCTGCTATGAGGGGAATGGTCACTTTTACCGAGGAA
AGGCCAGCACTGACACCATGGGCCGGCCCTGCCTGCCCTGGAACTCTGCCACTGTCCTTC
AGCAAACGTACCATGCCCACAGATCTGATGCTCTTCAGCTGGGCCTGGGGAAACATAATT
ACTGCAGGAACCCAGACAACCGGAGGCGACCCTGGTGCTATGTGCAGGTGGGCCTAAAGC
CGCTTGTCCAAGAGTGCATGGTGCATGACTGCGCAGATGGAAAAAAGCCCTCCTCTCCTC
CAGAAGAATTAAAATTTCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTTAAGATTATTG
GGGGAGAATTCACCACCATCGAGAACCAGCCCTGGTTTGCGGCCATCTACAGGAGGCACC
GGGGGGGCTCTGTCACCTACGTGTGTGGAGGCAGCCTCATCAGCCCTTGCTGGGTGATCA
GCGCCACACACTGCTTCATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTC
GCTCAAGGCTTAACTCCAACACGCAAGGGGAGATGAAGTTTGAGGTGGAAAACCTCATCC
TACACAAGGACTACAGCGCTGACACGCTTGCTCACCACAACGACATTGCCTTGCTGAAGA
TCCGTTCCAAGGAGGGCAGGTGTGCGCAGCCATCCCGGACTATACAGACCATCTGCCTGC
CCTCGATGTATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCACTGGCTTTGGAAAAG
AGAATTCTACCGACTATCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTT
CCCACCGGGAGTGTCAGCAGCCCCACTACTACGGCTCTGAAGTCACCACCAAAATGCTGT
GTGCTGCTGACCCACAGTGGAAAACAGATTCCTGCCAGGGAGACTCAGGGGGACCCCTCG
TCTGTTCCCTCCAAGGCCGCATGACTTTGACTGGAATTGTGAGCTGGGGCCGTGGATGTG
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GTCACACCAAGGAAGAGAATGGCCTGGCCCTCTGAGGGTCCCCAGGGAGGAAACGGGCAC
CACCCGCTTTCTTGCTGGTTGTCATTTTTGCAGTAGAGTCATCTCCATCAGCTGTAAGAA
GAGACTGGGAAGATAGGCTCTGCACAGATGGATTTGCCTGTGCCACCCACCAGGGTGAAC
GACAATAGCTTTACCCTCAGGCATAGGCCTGGGTGCTGGCTGCCCAGACCCCTCTGGCCA
GGATGGAGGGGTGGTCCTGACTCAACATGTTACTGACCAGCAACTTGTCTTTTTCTGGAC
TGAAGCCTGCAGGAGTTAAAAAGGGCAGGGCATCTCCTGTGCATGGGTGAAGGGAGAGCC
AGCTCCCCCGACGGTGGGCATTTGTGAGGCCCATGGTTGAGAAATGAATAATTTCCCAAT
TAGGAAGTGTAACAGCTGAGGTCTCTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGGTTT
GGGGAGCAGAGACACTAACGACTTCAGGGCAGGGCTCTGATATTCCATGAATGTATCAGG
AAATATATATGTGTGTGTATGTTTGCACACTTGTGTGTGGGCTGTGAGTGTAAGTGTGAG
TAAGAGCTGGTGTCTGATTGTTAAGTCTAAATATTTCCTTAAACTGTGTGGACTGTGATG
CCACACAGAGTGGTCTTTCTGGAGAGGTTATAGGTCACTCCTGGGGCCTCTTGGGTCCCC
CACGTGACAGTGCCTGGGAATGTATTATTCTGCAGCATGACCTGTGACCAGCACTGTCTC
AGTTTCACTTTCACATAGATGTCCCTTTCTTGGCCAGTTATCCCTTCCTTTTAGCCTAGT
TCATCCAATCCTCACTGGGTGGGGTGAGGACCACTCCTTACACTGAATATTTATATTTCA
CTATTTTTATTTATATTTTTGTAATTTTAAATAAAAGTGATCAATAAXXXXXXXXXXXXX
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002658 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCAGCCCCGGAGCCC
GGGCCAGGGTCCACCTGTCCCCGCAGCGCCGGCTCGCGCCCTCCTGCCGCAGCCACCGAG
CCGCCGTCTAGCGCCCCGACCTCGCCACCATGAGAGCCCTGCTGGCGCGCCTGCTTCTCT
GCGTCCTGGTCGTGAGCGACTCCAAAGGCAGCAATGAACTTCATCAAGTTCCATCGAACT
GTGACTGTCTAAATGGAGGAACATGTGTGTCCAACAAGTACTTCTCCAACATTCACTGGT
GCAACTGCCCAAAGAAATTCGGAGGGCAGCACTGTGAAATAGATAAGTCAAAAACCTGCT
ATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACACCATGGGCCGGCCCT
GCCTGCCCTGGAACTCTGCCACTGTCCTTCAGCAAACGTACCATGCCCACAGATCTGATG
CTCTTCAGCTGGGCCTGGGGAAACATAATTACTGCAGGAACCCAGACAACCGGAGGCGAC
CCTGGTGCTATGTGCAGGTGGGCCTAAAGCCGCTTGTCCAAGAGTGCATGGTGCATGACT
GCGCAGATGGAAAAAAGCCCTCCTCTCCTCCAGAAGAATTAANATTTCAGTGTGGCCAAA
AGACTCTGACGCCCCCGCTNTAAGAATATTGGGGGAGAATTCACCACCATCGAGAACCAG
CCCTGGTTTGCGGNCATCTACAGGAGGCACCGGGNGGGGCTCTGTCACCTACGTGTGTGG
AGGCAGCCTCATCAGCCCTTGCTGGGTGATCAGCGGCACACACTGCTTCATTGATTACCC
CAAGAGGAGGACTACATCGTCTACCTGGGTCGCTCAAGGCTTACTCCACACGCAAGGG
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_002658 unedited
GGAGCGCGCGCGCCCCACCACNAAACACACCCCCNNNNNANNNGNATTTTTCGTNAAAAT
ACACATTTTNTATGNTNCACNNTTTTATTTAAAATTACCAAAAATATTAAANNNAAAAAT
AGTGAAATATAAATATTCAGTGTAAGGAGTGGTCCTCACCCCACCCAGTGAGGATTGGAT
GAACTAGGCTAAAAGGAAGGGATAACTGGCCAAGAAAGGGACATCTATGTGAAAGTGAAA
CTGAGACAGTGCTGGTCACAGGTCATGCTGCAGAATAATACATTCCCAGGCACTGTCACG
TGGGGGACCCAAGAGGCCCCAGGAGTGACCTATAACCTCTCCAGAAAGACCACTCTGTGT
GGCATCACAGTCCACACAGTTTAAGGAAATATTTAGACTTAACAATCAGACACCAGCTCT
TACTCACACTTACACTCACAGCCCACACACAAGTGTGCAAACATACACACACATATATAT
TTCCTGATACATTCATGGAATATCAGAGCCCTGCCCTGAAGTCGTTAGTGTCTCTGCTCC
CCAAACCGCTGCTCCCACATTGGCTAAGCTCCCTCAAGAGACCTCAGCTGTTACACTTCC
TAATTGGGAAATTATTCATTTCTCAACCATGGGCCTCACAAATGCCCACCGTCGGGGGAG
CTGGCTCTCCCTTCACCCATGCACAGGAGATGCCCTGCCCTTTTTAACTCCTGCAAGCTT
CAGTCCAGAAAAAGACAAGTTGCTGGTCAGTAACATGTTGAGTCAAGACCACCCCTCCAT
CCTGGCCAGAGGGGTCTTGGGCAGCCAGCACCCAGGCCTATGCCTGAAGGTAAAGCTATT
GTCGTTCACCCTGGTGGGTGGGCACAGGCAAATCCATTTGTGGCAAACCCTATCTTCCAA
ATCTCTTCTTTACAACTGATGGAGTAGACTCTTCTGCAAAAATGACCACCACCAG
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Restriction Sites: NotI-NotI

ACCN: NM_002658

Insert Size: 2560 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_002658.2, NP_002649.1
RefSeq Size:	2360 bp
RefSeq ORF:	1296 bp
Locus ID:	5328
UniProt ID:	P00749
Cytogenetics:	10q22.2
Domains:	KR, Tryp_SPc
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease
Protein Pathways:	Complement and coagulation cascades

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]
Transcript Variant: This variant (1) encodes the longest isoform (1).