

## Product datasheet for **RG202083**

### uPA (PLAU) (NM\_002658) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	uPA (PLAU) (NM_002658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	uPA
Synonyms:	ATF; BDPLT5; QPD; u-PA; UPA; URK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202083 representing NM_002658 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAGCCCTGCTGGCGCGCTGCTTCTCTGCGTCTGGTCTGTGAGCGACTCCAAAGGCAGCAATGAAC  
TTCATCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGTCCAACAAGTACTTCTCCAA  
CATTCACTGGTCAACTGCCAAAGAAATTCGGAGGGCAGCACTGTGAAATAGATAAGTCAAAAACCTGC  
TATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACACCATGGGCCGGCCCTGCCTGCCCT  
GGAAGTCTGCCACTGTCCTTACGCAAACGTACCATGCCACAGATCTGATGCTCTTCAGTGGCCCTGGG  
GAAACATAAATACTGCAGGAACCCAGACAACCGGAGGCGACCCTGGTGTATGTGCAGGTGGGCCTAAAG  
CCGCTTGTCCAAGAGTGCATGGTGCATGACTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAAT  
TAAATTTTCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTAAAGATTATTGGGGGAGAATTCACCACCAT  
CGAGAACCAGCCCTGGTTTTCGGCCATCTACAGGAGGCACCGGGGGGCTCTGTACCTACGTGTGTGGA  
GGCAGCCTCATCAGCCCTTGTGGGTGATCAGCGCCACACTGCTTCATTGATTACCCAAAAGAGGAGG  
ACTACATCGTCTACCTGGTTCGCTCAAGGCTTAACTCCAACACGCAAGGGGAGATGAAGTTTGAGGTGGA  
AAACCTCATCCTACACAAGGACTACAGCGCTGACACGCTTGTCCACACAACGACATTGCCTTGTGAAG  
ATCCGTTCCAAGGAGGGCAGGTGTGCGCAGCCATCCCGGACTATACAGACCATGCTGCCCTCGATGT  
ATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCACTGGCTTTGGAAAAGAGAATTCTACCGACTATCT  
CTATCCGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTTCCACCGGGAGTGTGAGCAGCCCCACTAC  
TACGGCTCTGAAGTACCAACAAAATGCTGTGTGCTGCTGACCCACAGTGGAAAACAGATTCTGCCAGG  
GAGACTCAGGGGACCCCTCGTCTGTTCCCTCCAAGGCCGATGACTTTGACTGGAATTGTGAGCTGGG  
CCGTGGATGTGCCCTGAAGGACAAGCCAGGCGTCTACACGAGAGTCTCACACTTCTACCCTGGATCCGC  
AGTCACACCAAGGAAGAGAATGGCTGGCCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202083 representing NM\_002658  
Red=Cloning site Green=Tags(s)

```
MRALLARLLL CVLVVSDSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTC
YEGNGHFYRGKASTDTMGRPCLPWNSATV LQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLK
PLVQECMVHDCADGKKPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTVYVCG
GSLISPCWVISATHCFIDYPKKEDIYVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLK
IRSKEGRCAQPSRTIQITICLPSMYNDPQFGTSC EITGFGKENSTDYLYPEQLKMTVVKLI SHRECQPHY
YGSEVTTKMLCAADPQWKTDSCQGDSSGGLVCSLQGRMTLTGIVSWGRGCALKDKKPGVYTRVSHFLPWIR
SHTKEENGLAL
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002658

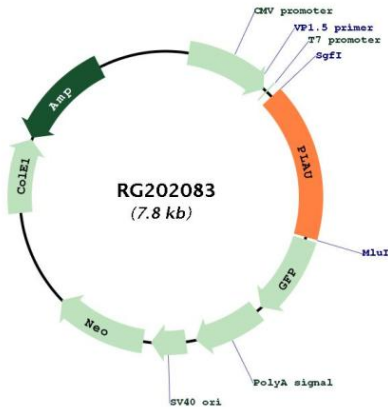
**ORF Size:** 1293 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002658.5</a>
<b>RefSeq Size:</b>	2360 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	5328
<b>UniProt ID:</b>	<a href="#">P00749</a>
<b>Cytogenetics:</b>	10q22.2
<b>Domains:</b>	KR, Tryp_SPc
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protease
<b>Protein Pathways:</b>	Complement and coagulation cascades
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG202083