

## Product datasheet for **RG210571**

### PLAT (NM\_000930) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLAT (NM_000930) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLAT
Synonyms:	T-PA; TPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210571 representing NM\_000930  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATGCAATGAAGAGAGGGCTCTGCTGTGTGCTGCTGCTGTGTGGAGCAGTCTTCGTTTCGCCAGCC  
 AGGAAATCCATGCCCGATTTCAGAAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCA  
 GATGATATACCAGCAACATCAGTCATGGCTGCGCCCTGTGCTCAGAAGCAACCGGGTGAATATTGCTGG  
 TGCAACAGTGGCAGGGCACAGTGCCTCAGTGCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACG  
 GGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTTCTGTGCCAGTGCCTCGAAGGATTTGCTGGGAA  
 GTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCAGGGCATCAGCTACAGGGGCAGTGGAGC  
 ACAGCGGAGAGTGGCGCCGAGTGCACCACTGGAACAGCAGCGCTTGGCCAGAAGCCCTACAGCGGGC  
 GGAGGCCAGATGCCATCAGGCTGGGCTGGGGAACCACAACACTACTGCAGAAACCCAGATCGAGACTCAA  
 GCCCTGGTGTACGTCTTAAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCCTGCCTGCTCTGAG  
 GAAACAGTGACTGCTACTTTGGGAATGGGTACGCTACCGTGGCAGCAGCCCTACCGAGTCCGGGTG  
 CCTCTGCCTCCCGTGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCAGTGCCTCA  
 GGCAGTGGGCTGGGCAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTGGTGCACGCTG  
 CTGAAGAGCCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAGACAGT  
 ACAGCCAGCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCCACCCCTGGCAGGCTGC  
 CATCTTTGCCAAGCACAGGAGGTGCGCCGAGAGCGGTTCTGTGCGGGGCATACTCATCAGCTCCTGC  
 TGGATTCTCTGCCGCCACTGCTTCCAGGAGAGGTTTCCGCCACCACCTGACGGTGTCTTGGGCA  
 GAACATACCGGGTGGTCCCTGGCAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTTCCATAAGGA  
 ATTCGATGATGACACTTACGACAATGACATTGCGCTGCTGCAGCTGAAATCGGATTCGTCCCGCTGTGCC  
 CAGGAGAGCAGCGTGGTCCGCACTGTGTGCCTTCCCCGCGGACCTGCAGCTGCCGGACTGGACGGAGT  
 GTGAGCTCTCCGGCTACGGCAAGCATGAGGCTTGTCTCCTTTCTATTCCGAGCGGCTGAAGGAGGCTCA  
 TGTGAGACTGTACCCATCCAGCCGCTGCACATCACAACATTTACTTAACAGAACAGTACCAGACAACATG  
 CTGTGTGCTGGAGACTCGGAGCGGGGCCCCAGGCAAACCTTGACAGCAGCCTGCCAGGGCGATTCCGG  
 GAGGCCCTGGTGTGTCTGAACGATGGCCGATGACTTTGGTGGGCATCATCAGCTGGGCTGGGCTG  
 TGGACAGAAGGATGTCCCGGTGTGTACCAAGGTTACCAACTACCTAGACTGGATTCTGACAACATG  
 CGACCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210571 representing NM\_000930  
 Red=Cloning site Green=Tags(s)

MDAMKRLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTMQMIYQQHQSWLRPVLRSNRVEYCW  
 CNSGRAQCHSVPVKSCSEPRCFNGGTCQQALYFSDVCQCEPGEFAGKCCCEIDTRATCYEDQGISYRGTWS  
 TAESGAECTNWNSSALAQKPYSGRRPDAIRLGLGNHNYCRNPDRDPSKPCYVFKAGKYSSEFCSTPACSE  
 GNSDCYFNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSAALGLGKHNYCRNPDGAKPWCHV  
 LKSRRLTWEYCDVPSCSTCGLRQYSQPFRKGGFLADIASHPWQAAIFAKHRRSPGERFLCGGILISSC  
 WILSAAHCFQERFPPHLLTVILGRTRYRVVPEEEQKFEVEKYIVHKEFDDDTYDNDIALLQLKSDSSRCA  
 QESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNM  
 LCAGDTRSQQANLHDACQGDSSGGLVCLNDGRMTLVGIIISWGLGCGQKDVPGVYTKVTNYLDWIRDNM  
 RP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_000930

**ORF Size:** 1686 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\\_000930.2](#), [NP\\_000921.1](#)

**RefSeq Size:** 2653 bp

**RefSeq ORF:** 1689 bp

**Locus ID:** 5327

**UniProt ID:** [P00750](#)

**Cytogenetics:** 8p11.21

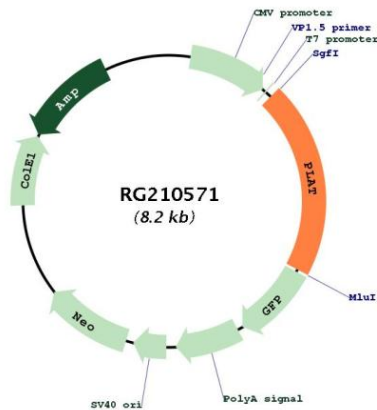
**Domains:** KR, FN1, Tryp\_SPC, EGF

**Protein Families:** Druggable Genome, Protease, Secreted Protein

**Protein Pathways:** Complement and coagulation cascades

**Gene Summary:** This gene encodes tissue-type plasminogen activator, a secreted serine protease that converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. The encoded preproprotein is proteolytically processed by plasmin or trypsin to generate heavy and light chains. These chains associate via disulfide linkages to form the heterodimeric enzyme. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding, while decreased activity leads to hypofibrinolysis, which can result in thrombosis or embolism. Alternative splicing of this gene 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 RG210571