

## Product datasheet for **SC109578**

### PLAT (NM\_033011) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLAT (NM_033011) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLAT
Synonyms:	T-PA; TPA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_033011 edited
GAATTCGGCACGAGGCAGGAGTCCAGGGCTGGAGAGAAAACTCTGCGAGGAAAGGGAAG
GAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAGAGGGC
TCTGCTGTGTGCTGCTGTGTGGAGCAGTCTTCGTTTCGCCAGCCAGGAAATCCATG
CCCATTGAGAGAGGAGCCAGATCTTACCAAGTTGCAGCGAGCCAAGGTGTTTCAACG
GGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTTTCGTGTGCCAGTGCCCCGAAGGAT
TTGCTGGGAAGTGTGTGAAATAGATACCAGGGCCAGTGCTACGAGGACCAGGGCATCA
GCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGACCAACTGGAACAGCA
GCGCGTTGGCCAGAAGCCCTACAGCGGCGGAGGCCAGATGCCATCAGGCTGGGCTGG
GGAACCACAACACTACTGCAGAAACCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTA
AGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCCTGCCTGCTCTGAGGGAAACAGTG
ACTGCTACTTTGGGAATGGGTACGCTACCGTGGCACGCACAGCCTCACCGAGTCGGGTG
CCTCTGCCTCCCGTGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACC
CCAGTGCCAGGCACTGGGCTGGGCAACATAATTACTGCCGAATCCTGATGGGGATG
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CCTCCTGCTCCACTGCGGCCTGAGACAGTACAGCCAGCCTCAGTTTCGCATCAAAGGAG
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CGGACCTGCAGCTGCCGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCATGAGG
CCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTCAGACTGTACCCATCCA
GCCGCTGCACATCACAACATTTACTTAAACAGAACAGTACCCGACAACATGCTGTGTGCTG
GAGACTCGGAGCGGGGCCCCAGGCAAACTTGACAGACGCCTGCCAGGGCGATTTCGG
GAGGCCCCCTGGTGTGTGAACGATGGCCGCATGACTTTGGTGGGCATCATCAGCTGGG
GCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTACCTAG
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AGATCCCCTCTTCTTCTCAGAAGACTGCAAAGGCGCAGTGCTTCTCTACAGACTT
CTCCAGACCCACCACCCGAGAAGCGGGACGAGACCCTACAGGAGAGGGAAGAGTGCAT
TTTCCCAGATACTTCCATTTTGAAGTTTTCAGGACTTGGTCTGATTTTCAGGATCTCT
GTCAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGGGCA
AAAGTGGCCATGCCACCCTGTTTTAGCTAAAGCCCAACCTCCTGACCTGTCACCGTGAG
CAGCTTTGGAAACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGA
TCTTTCAGGAAAGACGGATTGCATTAGAAATAGACAGTATATTTATAGTCACAAGAGCCC
AGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCGTCATGTTCTCAAAGCACCCCTT
GACGTCAAAGTCTCCTTCCCCTTCCCCTACTCCCTGGCTCTCAGAAGGTATTCTTTTGTG
TACAGTGTGTAAGTGTAAATCCTTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATT
GTATCATTTGAACAACACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTT
CTGTTGCCACAACCTGTTTTTACTGTACTTAATAAATTCAGATATATTTTTTCACAGTT
TTTCAAAAAAAAAAAAAAAAAAACTCGAC
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_033011 unedited</p> <pre> AAAAACCTTCGGCAGCAGGCAGGAGTCCATTGCTGGAGAGAAAACCTCTGCGAGGAAAAGG GAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAGA GGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCAGCCAGGAAATC CCCTCCGATTGAGAAGATGAGCCTGATCTTACCAAGGTTGCAGCGAGCCAAGGTGTTTC AACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTCGTGTGCCAGTGCCCGGAA GGATTTGCTGGGAAGTGTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCAGGGC ATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGACCAACTGGAAC AGCAGCGCGTTGGCCAGAACCCCTACAGCGGGCGGAGGCCAGATGCCATCAGGCTGGGC CTGGGGAACCACAACACTACTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGTACGTC TTAATGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCCTGCCTGCTGTGAGGGAAAC AGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCACGCACAGCCCTCCCGAGTCG GGTGCCTCCTGGCTCCCGTGAATTCCCTGATCCTGATAGGCATTGTTTACACAGCACAG AACCCAGTGCCCATGCCTTGGCCTGGGGCAACCTAATTACTGGCCGATTCTCTGGTG GGGATGGCCAGCCCTGGTGCCACTTGCTGGAATACCCGCGGCTGGACGTGGGAGGTCTT GGGATGGCCCTCCTGCTCTCCCTGGGGCCGGGACAGTCCAGCCAGCCTCATTTTTTCA TAA </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_033011 unedited</p> <pre> NNTTTTAGCTATGNACCCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGG AAAACTGTGAAAATATATCTGAATTTATTAAGTACAGTATAAAACAGGGTTGTGGCAA CAGAAAGTAAAAACTAACATGGATTGCTATAAATATGCTGAAGCCTAGTTGTTCAAATGA TACAATTCCTCATGCTACTCTAAAGTTTATAAAGAAAAAGGATTTACACTTTACACACT GTACACAAAAGGAATACCTTCTGAGAGCCAGGGAGTGGGGAAAGGGGAAGGAGACTTGAC GTCAAGGGTGCTTTTGGGAACATGACGGGCCAGCCAGCCTGCCCAACTTTGAGGCCCT GCTGGGCTCTTGTGACTATAAATATACTGTCTATTTCTAATGCAATCCGTCTTTCCTGAA AGATCTTGTTATCTTTACTATTGAGACATGCTTTCATTTTTGTGGTCTGTTTCCAAAG CTGCTCACGGTGACAGGTCAGGAGGTTGGGCTTAGCTGAAAACAGGGTGGCATGGCCAC TTTCTGCCAGGGAGGAGCATTCTGGAGAGGCTAGTGTGCATTATGCTTCCCATCT GACAGAGTATCTGAAATCAGACCAAGTCTGAAAACCTCCAAAATGGGAAGTATCTGGG AAAATGCACTCTCCCTCTCCTGTAGGGTCTCGTCCCGCTTCTGNCGTGTGGTGGTCTG GAGAAGTCTGTAAGAGCACTGCGCCTTTGCAAGTGTCTTCTGAAGAAGAAGAGGCGGATC TCATTTGCTTTTTGAGAGTCGGGTGTTTCTGGGCACGGTCGCATGNTGTCACGAATCCAG TCTAGGTAGTTGGGTACCCTGGTGTACACACCCGGNACATNCTTNTGTCCACANCCCCAG CCCAGCTGT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_033011
<b>Insert Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_033011.1</a> , <a href="#">NP_127509.1</a>
<b>RefSeq Size:</b>	2534 bp
<b>RefSeq ORF:</b>	1551 bp
<b>Locus ID:</b>	5327
<b>UniProt ID:</b>	<a href="#">P00750</a>
<b>Cytogenetics:</b>	8p11.21
<b>Domains:</b>	KR, Tryp_SPc, EGF
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (3) is shorter than isoform 1. This isoform (3) may undergo proteolytic processing similar to isoform 1.</p>